

## Introduction to Panda Antivirus 6.0

Welcome to **Panda Antivirus 6.0**. We have designed **Panda Antivirus 6.0** to be easy and convenient to use. In this help you will find detailed explanations of all the operations you can perform with **Panda Antivirus 6.0**. Consult this help whenever you have difficulty or do not know how to do something.

The main goal of **Panda Antivirus 6.0** is to bring the most advanced antivirus technology closer to all users. The growing danger of computer viruses and the technological advances they show make a latest generation antivirus program incorporating leading edge technology an absolute must.

However, we at **Panda Software** do not forget that, in the final analysis, only people are important. That is why we put an exceptional suite of services at your disposal, whose aim is to help you whenever you have any sort of virus-related problem.

The combination of a product embodying state-of-the-art technology and near-at-hand services makes ours a complete, global solution against the danger of computer viruses.

### New technology, new design

**Panda Antivirus 6.0** offers a new technology which allows you to control the entire panoply of antivirus protection resources in a computer from a single program. In this way you can control the different protection strategies from the same point, making management easier and improving security.

The new design of **Panda Antivirus 6.0** makes it a revolutionary product. Easy to use but offering all the power and scanning capability you require. Its new interface, with two operating modes, adapts itself to your needs.

### Protection strategies

**Panda Antivirus 6.0** offers a complete set of protection strategies to keep all the entryways used by viruses to get into your computer protected.

**Immediate scans:** enable you to scan any part of the computer at any time in the simplest way.

**Scheduled scans:** allow you to scan any part of the computer automatically at the times you program in advance.

**Startup scans:** enable you to schedule a scan when the computer starts up so that it is protected from the very beginning of each work session.

**Resident scans:** offer total, automatic protection at all times.

**Internet scans:** antivirus protection against infecting your computer when you access the Internet.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

### Services

Together with **Panda Antivirus 6.0** you have acquired a complete suite of services to help you with everything related to viruses.

**Technical support:** 24 hours a day, 365 days a year, we have qualified technicians standing by to help you in person. To make it easy and convenient to contact us, we offer you all the means of

communication: telephone, electronic mail, fax, regular mail, and our Web site.

**24-hour S.O.S. Virus:** if you find a new virus, we will solve your problem in no more than 24 hours and will send you, within that time limit, an antivirus that will detect and disinfect the new virus.

**Updates:** DAILY updates from our Web site plus the possibility of receiving updates sent regularly to your office or home.



## Upgrading the antivirus (Intelligent Upgrades)

In order to perform **Intelligent Upgrades**, it is necessary to have installed all of the antivirus components (by choosing **Complete Installation** at the time of installing). In addition, it is necessary to have a connection to Internet open before beginning the *Upgrade* process. Once you have done this, the steps you must take to carry out an **Intelligent Upgrade** are as follows:

1. Select the **Intelligent Updates & Upgrades** option in the **Panda Antivirus 6.0** group under the **Programs** section in your **Start** menu.
2. The program will automatically check the update status of both the virus signature file and the antivirus itself. It will check to see if there exist more updated versions of the virus signature file and complete antivirus.
3. You will be offered the possibility of updating the virus signature file, the antivirus or both, depending on the results of the previously described checks. If you wish to go ahead with the update, you need only press the **Update** button.
4. When finished, you are given the optional choice of restarting your computer so that the changes made in the antivirus can take effect.

## Updating the virus signature file (Intelligent Updates)

New viruses appear every day. In order to be fully protected, it is necessary to be permanently updated. **Panda Antivirus** can be updated quickly and efficiently by updating a single virus signature file.

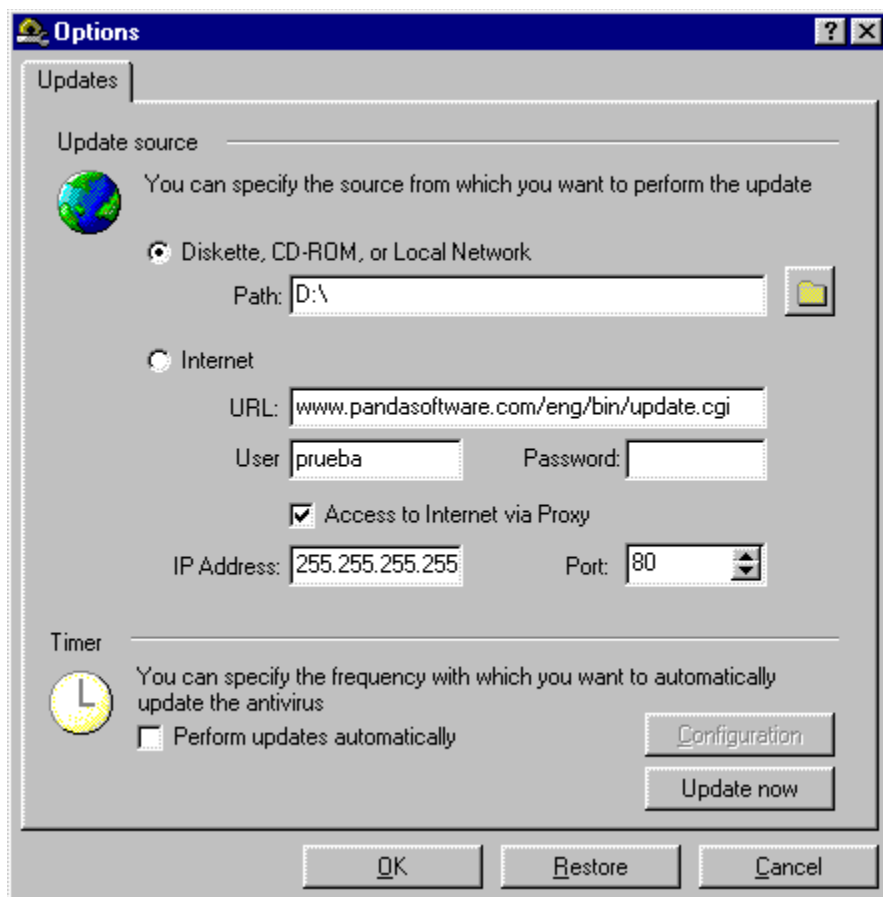
The updates of the virus signature file can be performed either from the program itself, by pressing the **Update** button, or from an external program created for this purpose.

To update the virus signature file from the **Panda Antivirus** program, you must first press the **Update** button. Once you have done this, a window will appear that will permit you to indicate the source of the update (diskettes, CD-ROM, network or Internet) as well as the necessary information to carry this out. It is important to point out that if the update is to be performed via Internet, you must first have an Internet connection open before starting the update process.

If you wish to update the virus signature file without running **Panda Antivirus**, you must go to **Panda Antivirus 6.0** under the **Programs** section in your **Start** menu. Once there, run the **Intelligent Updates & Upgrades** program. This program will automatically detect if there exists a more updated version of the virus signature file than the one installed. It will inform you of the situation and will allow you to perform the update by clicking on the **Update** button.

### Updating via CD-ROM or diskettes

If you wish to update your antivirus software via CD-ROM or diskettes, take the following steps:



1. Select the Diskette, CD-ROM or local network option.
2. Indicate the path from which the update will be taken. If it is to be done from a diskette, type in the disk drive. If the update source is a CD-ROM, key in the letter of the CD-ROM drive, and if a local area network is the source, indicate the network drive.
3. Press the **Update now** button.

Once you have completed the previous steps, the update process will begin.

### Updating through the Internet

If you want to update the antivirus through the Internet, proceed as follows:

1. Choose the Internet option.
2. Indicate the Internet address (URL) from where you will obtain the update. Because the Internet-based updating service is exclusive to registered customers, you will also need to type in a user name (Login) and a Password for identification purposes.
3. If the connection to Internet is made through a *proxy*, you should check the **Access to Internet via Proxy** option and fill out the **IP Address** and **Port** fields. If you have any doubts concerning the correct IP address and/or port values, we recommend that you ask your network administrator.
4. Press the **Update now** button.

Once you have carried out the previous steps, the update process will begin.

## Periodic updates

You can configure **Panda Antivirus** so that the updates are periodically performed in a totally automatic manner. This will allow you to be completely up-to-date in the easiest and most comfortable way possible.

The automatic updates of both the virus signature file and the entire antivirus will be performed via CD, diskettes or Internet, depending on what you have selected.

To indicate that you want your **Panda Antivirus** updated automatically, check the **Perform updates automatically** option.

You can configure when the antivirus will be updated to suit your specific needs. To configure the update calendar, press the **Configuration** button. A window will come up offering the following options:

- **Update the signature file:** permits you to indicate that you wish to perform periodic updates of the virus signature file (*Intelligent Updates*).
- **Update by elapsed time:** allows you to indicate that the updates of the virus signature file are to be performed every x hours, days, weeks or months.
- **Update on a certain day of the week:** enables you to indicate that the updates are to be carried out on a certain day of the week.
- **Update time:** if you have chosen to carry out the updates on a certain day of the week or every certain number of days, weeks or months, you will need to indicate the time you want the update process to begin.
  
- **Check for Updates & Upgrades:** allows you to indicate that you wish to check whether there are any *Updates* and *Upgrades* available. If there are, you will be offered the possibility of carrying out the update automatically.
- **Each time the antivirus is run:** permits you to indicate that you wish to check for *Updates* and *Upgrades* each time the antivirus is started.
- **Update by elapsed time:** allows you to indicate that the checking routines are to be carried out every x hours, days, weeks or months.
- **Update time:** if you have chosen to carry out the checking routine every certain number of days, weeks or months, you will need to indicate the time you want the update process to begin.

## Different types of updates

**Panda Antivirus 6.0** offers two different types of update formats: **Intelligent Updates** and **Intelligent Upgrades**. **Intelligent Updates** renews the virus database so that the antivirus is capable of detecting and disinfecting all the latest viruses. **Intelligent Upgrades** renew the entire product in order to incorporate the latest improvements made to the antivirus.

To find out when you last updated your **Panda Antivirus 6.0**, the program displays a graph in the status bar located in the lower part of the antivirus' main window. This graph indicates the antiquity of the virus signature file in days. By double-clicking the graph, a window will appear showing information on the virus signature file. This information can also be accessed by pressing the **Version** button in the window that appears after clicking on the **Virus List** button in the application's main window. The information shown on the virus signature file is as follows:

- **No. of Known Viruses:** indicates the number of viruses detected by the virus signature file.
- **Virus File Version:** indicates the version of the virus signature file. The version refers to the different technologies implemented in the file. It is possible that the newest versions of the virus file will not work correctly with older versions of **Panda Antivirus**, and for that reason this information is shown.
- **Date Created:** this is the date that the virus signature file was generated.
- **Time Created:** this corresponds to the time the virus signature file was created.
- **Size:** indicates the size in bytes of the virus signature file.

Lastly, the information on both the version number installed and the date of the virus signature file with which the antivirus is working is shown in the About Panda Antivirus window, which can be accessed through the Help menu. These two pieces of information appear together in this window to facilitate their consultation.



## Description of Panda Antivirus 6.0

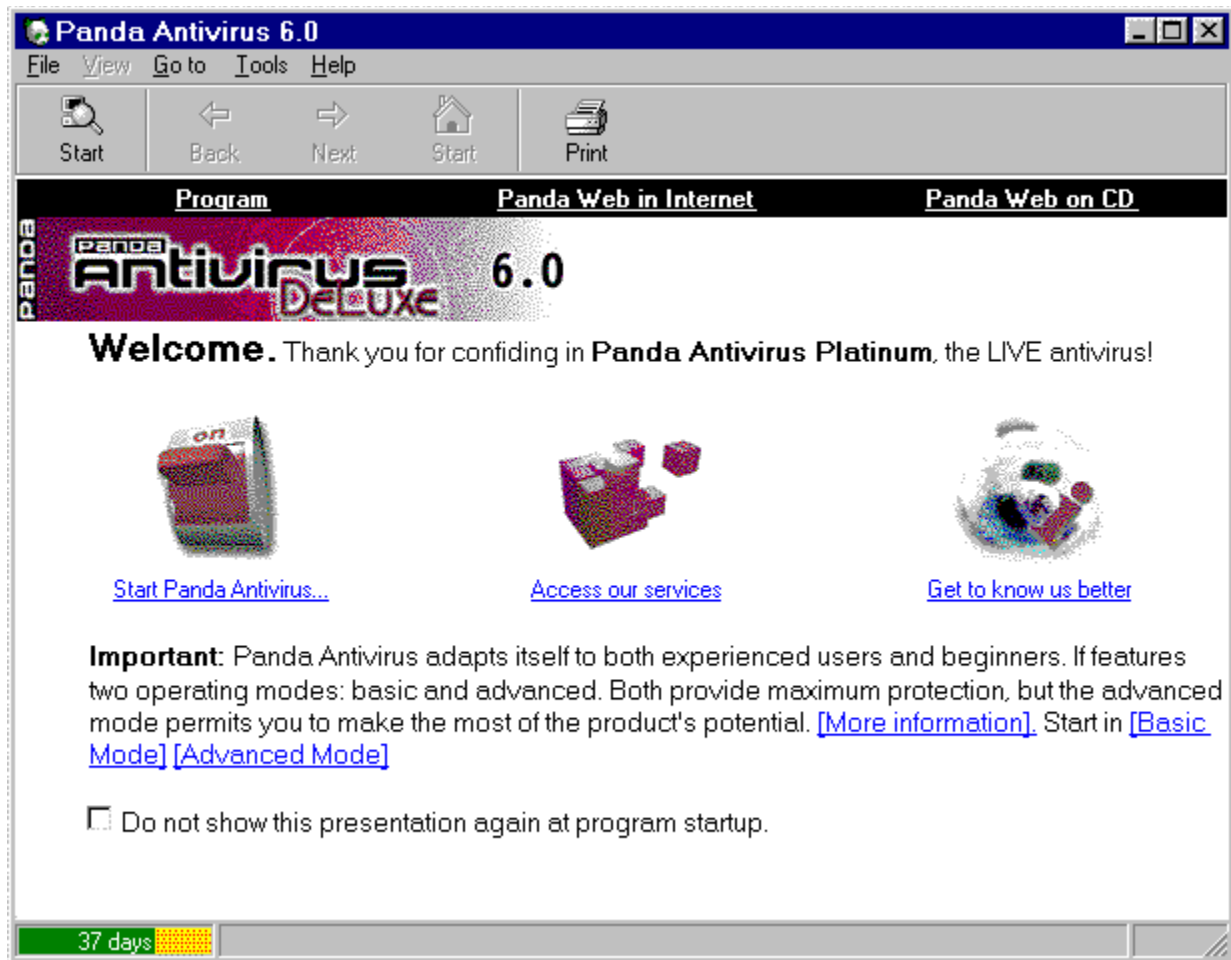
**Panda Antivirus 6.0** displays a main window which is divided into the following parts:

1. **Menu bar.** This bar contains the main application menu which allows you to access all the program options.
2. **Standard button bar.** This bar contains the buttons which allow the user to access the most commonly used program options easily and quickly.
3. **Panda Antivirus bar.** This is what we call the vertical button bar on the left-hand side of the window. It lets you go from one protection strategy to another; the antivirus program thus offers you a centralized control of all the different types of scan.
4. **Central area.** This is all the area of the main window located to the right of the **Panda Antivirus bar**. In this central area you will see the different items required to create new scans or to monitor the status of others.
5. **Status bar.** A “thermometer” is shown in the status bar to indicate the antiquity of the virus file. As time goes by, an orange bar will progressively lengthen from right to left. After a certain time has passed, the color of this bar will change to red, which indicates that it is time for an antivirus update.

## Panda Antivirus Platinum



## Panda Antivirus DeLuxe



## Two modes: basic and advanced

To bring the operation of **Panda Antivirus 6.0** closer to its users, we have given our antivirus two working modes: advanced and basic. The difference between the two is that, while guaranteeing the same levels of protection, the first allows you to configure all the scan options, whereas the second only lets you choose one of the predefined scans.

A button in the **Panda Antivirus 6.0 standard button bar** lets you easily change modes.

The following table details the differences between the two modes. The basic mode is recommended for less advanced users or users who have very concrete, specific needs. The advanced mode is for experienced users, although the operation of the program can also be simplified in this mode by choosing only predetermined scans.

	<b>Advanced mode</b>	<b>Basic mode</b>
<b>Immediate scan</b>	Choose a predetermined scan OR Choose scan areas and options.	Choose a predetermined scan.
<b>Scheduled scan</b>	Choose a predetermined scan OR Choose scan areas, options and frequency.	Choose a predetermined scan.
<b>Startup scan</b>	Choose whether you wish to enable or disable. Choose optional areas and scan options also.	Choose whether you wish to enable or disable.
<b>Resident scan</b>	Choose whether you wish to enable or disable, as well as resident scan options.	Choose whether you wish to enable or disable.
<b>Internet scan</b>	Choose whether you wish to enable or disable, as well as Internet scan options	Choose whether you wish to enable or disable.

## Report

All the activity of the antivirus program is logged in the report. Its main function is to serve as an historical file of the operations carried out with the antivirus, as well as to record all virus incidents that have occurred.

To access the scan options, you need to be in **Immediate scans** or **Scheduled scans** and in the **Advanced** mode. Once you are there, pressing **Scan options** will open a window divided into several sections. The general report configuration options are found in the **Report** section. Those options are:

- **Level of detail - Simple:** at this level of detail all virus-related incidents are recorded. The report will also register all errors which could affect the level of security (for example, the inability to disinfect a virus because a diskette is write-protected).
- **Level of detail - Medium:** besides the data included on the simple level, all jobs are registered at both their start and finish. In addition, at this level the report includes all changes made in the antivirus that affect its level of protection (disabling of resident protection, etc.).
- **Level of detail – Black box:** this is a special mode intended to solve problems which may arise with the antivirus program. An exhaustive record is made aimed at providing the greatest possible quantity of information. We recommend against enabling this level if you have no problems.
- **Size of the report:** you can use this option to indicate a maximum size for the report and thus avoid letting it take up too much hard disk space.

The window where the report is displayed offers a series of options:

- **Print report:** clicking on this button prints the report so that it can be read on paper.
- **Find incident:** pressing this button opens a window which allows you to search for an incident by indicating a text and the fields in which you want to look for the text.
- **Convert to text file:** thanks to this option, you can generate a text file containing all the report data in order to make it easier to consult in computers where **Panda Antivirus** is not installed.
- **Delete report:** this option erases the report.
- **Incidents:** by means of this option you can select the types of incidents you wish to display in the report. This makes consulting the report easier when it has a great many entries.
- **Date:** this option is also intended to make consulting the report easier. In this case, you can choose to see all the incidents, only those which occur until or from a given date, or the ones which fall between the two dates you specify.

Each one of the incidents in the report has a series of associated fields. They are:

- **Incident:** contains a description of the entry in question.
- **Job:** this field indicates which type of scan has brought about the entry in the report.
- **Date and time:** this field records the date and time the incident occurred.
- **Path:** indicates the complete path together with the file name for all incidents in which this information makes sense.
- **Action:** shows the action taken in response to the incident in question.

## **What is the startup scan?**

The object of startup scanning is to protect your computer from the very beginning. **Panda Antivirus 6.0** offers two types of startup scans: one which operates when the computer is started up and another which runs when Windows starts up.

The two types of startup scan have different configuration options. Refer to the appropriate section in each case to obtain detailed information about these configuration options.

If you are working in the advanced mode, you can choose the areas that will be scanned when the system is started up. The advanced mode also allows you to schedule the system startup scan so that it is only performed at certain times.

## How to enable the startup scan (Advanced)

Both startup scans, the computer startup scan and the Windows startup scan, are enabled in the same way.

First, you will need to access the startup scan area by way of the **System startup** option in the **Go to** menu. You can also get there by using the **Panda Antivirus bar**, which shows the main options of the program to make its handling easier.

Once you are in the startup scan area, you will see two options which you can check: **computer startup scan** and **Windows startup scan**. Just double click on each of these options so that they will be enabled, provided that they were previously disabled. Both of these operations can be enabled and disabled independently, since they are in no way linked or related.

## Options in the computer startup scan (Advanced)

The computer startup scan options enable you to configure how this scan will be performed. To access these options, press the **Configuration** button in the **Startup scan** section, bearing in mind the startup scan option you have selected (computer startup or Windows startup). All the scan options are grouped in a single window but separated into different tabs to make them easier to manage.

Select the section on which you want more information:

[Scan.](#)

[Actions.](#)

[Scheduler.](#)

## How to disable the startup scan (Advanced)

Both the computer and Windows startup scans are disabled in the same way.

To disable either of them, go to the **System Startup** option via the **Go to** option in the main menu. You can also access this area by using the **Panda Antivirus bar**, which offers the main program options to facilitate their handling. Once you are there, simply double click the **computer startup scan** and/or the **Windows startup scan** option to disable them, assuming they are currently enabled.



## How to enable the startup scan (Basic)

Both startup scans, the computer startup scan and the Windows startup scan, are enabled in the same way.

First, you will need to access the startup scan area by way of the **System startup** option in the **Go to** menu. You can also get there by using the **Panda Antivirus bar**, which shows the main options of the program to make its handling easier.

Once you are in the startup scan area, you will see two options which you can check: **computer startup scan** and **Windows startup scan**. Just double click on each of these options so that they will be enabled, provided that they were previously disabled. Both these operations can be enabled and disabled independently, since they are in no way linked.

## How to disable the startup scan (Basic)

Both the computer and Windows startup scans are disabled in the same way.

To disable either of them, go to the **System Startup** option via the **Go to** option in the main menu. You can also access this area by using the **Panda Antivirus bar**, which offers the main program options to facilitate their handling. Once you are there, simply double click the **PC startup scan** and/or the **Windows startup scan** option to disable them, assuming they are currently enabled.

## What is an immediate scan?

Immediate scans let you scan any part of the computer in search of viruses any time you wish.

Immediate scans offer the possibility of choosing which area or areas you want scanned. The scan begins at the moment you order it. These characteristics make immediate scans especially apt for checking new files you may receive on any support medium, such as a diskette, e-mail or an Internet file download, to be sure they are free of viruses. ( [Differences between versions](#) )

If you are in basic mode, an immediate scan is done by choosing one of the predetermined scans which come with the program. The objective of these predetermined scans is to provide users with the most common scans previously defined, so that their scanning work is made as easy as possible.

You can also select one or several areas of the section displaying items to be scanned and press the **Scan** button to start an immediate scan of the areas you have chosen.

If you are in advanced mode, a set of predetermined scans is also available to you. You can choose one of these or create a new scan according to your needs at the time. You can also modify the scan options. These options allow you to configure the scan to adapt it to your specific needs.

As in the basic mode, you can select one or several areas from the section offering items to be scanned and press the **Scan** button to start a scan on the spot.

## Scan areas in an immediate scan (Advanced)

In the advanced mode you can scan any part of the computer in search of viruses. To select the areas to be scanned you can work with the **Selection tree**. All the areas which can be scanned are shown in this tree. These areas are the memory, all assigned computer drives and, optionally, the e-mail ( [Differences between versions](#) ) folders of the **Microsoft Exchange**, **Microsoft Outlook** and **Microsoft Outlook Express** programs.

When you press the **Scan** button, the scan in search of virus will be carried out in all the areas in **Items to be scanned**. To determine which areas of the **Selection tree** will be included in **Items to be scanned**, there are three buttons between the two which have the following functions:

- **Add area:** if you select an area in the **Selection tree** and then press the **Add area** button, the selected area is added to **Items to be scanned**. You can achieve the same effect by dragging an area directly from the **Selection tree** to **Items to be scanned**.
- **Remove area:** if you select an area in **Items to be scanned** and press this button, the area you selected will be removed from **Items to be scanned**.
- **Clear:** when this button is pressed, all the items in **Items to be scanned** will be removed from the list.

If you attempt to add an area to **Items to be scanned** which is already there, the antivirus program will notify you of this and will cancel the operation. If you try to add an area to **Items to be scanned** which is included in another area which is already there, the antivirus program will advise you of this but will not cancel the operation.

It is also important to bear in mind that the different items to be scanned can be added with and without subdirectories. If you attempt to add an item with subdirectories and this item is already stripped of them, the antivirus program will ask if you want to remove the version without subdirectories and add the new one which includes them.

Finally, if an area is already in **Items to be scanned** and you attempt to add a higher area which includes it, you will be given the option of removing the repetitions automatically.

**Panda Antivirus 6.0** is capable of scanning **Microsoft Exchange**, **Microsoft Outlook** and **Microsoft Outlook Express** folders. Any of the folders of these mail systems can be scanned in the same way the antivirus would scan any other area of the computer. It is also important to point out that **Panda Antivirus 6.0** will scan for viruses any message database belonging to any of these systems which it may find during the scan, even when the message database in question is not defined as a folder.

**Note:** some options are only available according to the specific version of the product acquired and the configuration of the operating system. For more information, see [Differences between versions](#)

## Options in an immediate scan (Advanced)

The scan options allow you to configure how the scan in search of viruses will be performed. To access these options, press the **Configure Scan** button on the standard button bar. All the scan options are grouped in a single window, although they are separated into different tabs to make managing them easier.

Click on the area on which you want more information:

[Scan.](#)

[Actions.](#)

[Exclusions.](#)

[Report.](#)

[Warnings.](#)

## **Predetermined scans in an immediate scan (Advanced)**

Predetermined scans offer the greatest ease in performing fast, simple scans.

A predetermined scan is a specific configuration of areas to be scanned and scan options. Predetermined scans are saved so that they can be reused as many times as needed, thus saving you an important amount of time and greatly simplifying your scan jobs.

The program comes equipped with a series of ready-configured predetermined scans. Among these already defined scans are the ones most frequently used when searching for viruses. If you wish to perform a different scan, you will be able to save the specified scan configuration (areas and scan options) to add a new predetermined scan to your list.

**Adding a new predetermined scan.** All you need to do is choose a set of areas to be scanned and establish the desired options. When you have done this, press the **Save** button in the standard program bar. The software will ask you for a name for the new predetermined scan. Once you have given it a name, the new scan will be available in the list of predetermined scans.

**Removing a predetermined scan.** To eliminate a previously created predetermined scan, simply right-click on the scan to be removed and choose the **Remove created scan** option. It must be borne in mind that only those predetermined scans that the user has created previously can be eliminated; those included with the program cannot be removed.

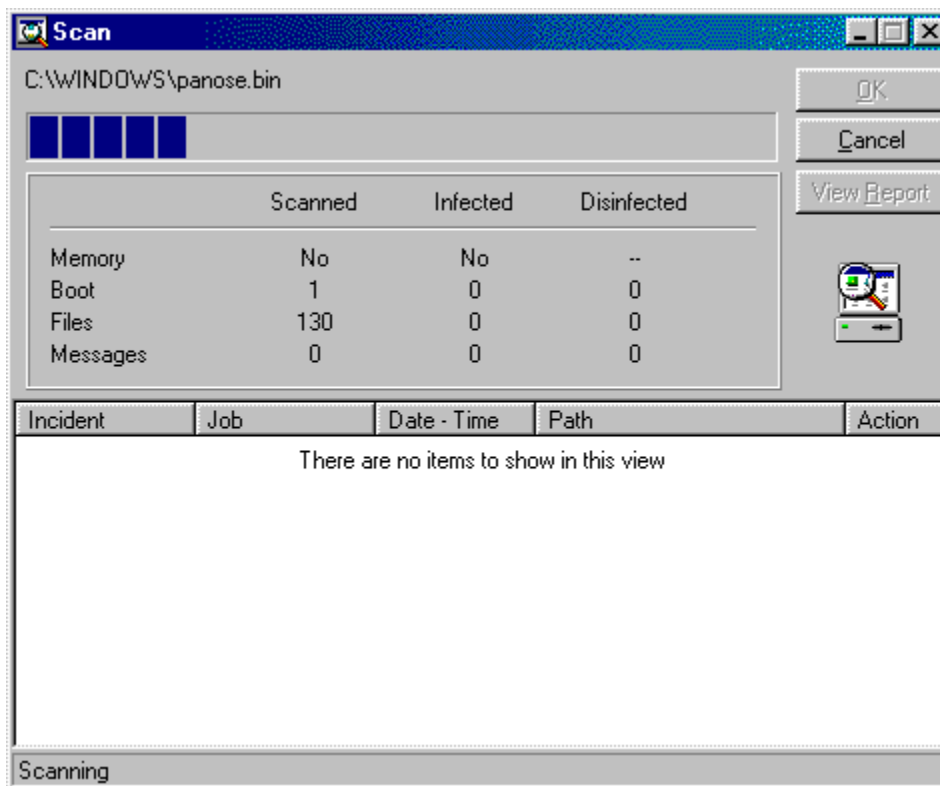
If you are going to scan the same areas on a regular basis, we recommend that you create a series of predetermined scans which will make the process much simpler and will avoid errors.

## How to perform an immediate scan (Advanced)

The immediate scan area is accessed through the **Immediate** option within the **Go to** menu. You can also get to this area by using the **Panda Antivirus bar**, which shows the main options of the program in order to make its handling easier.

To perform an immediate scan, follow the steps below:

1. Add the areas which you want scanned in search of viruses to **Items to be scanned**. This can be done by dragging those areas from the **Selection tree** to **Items to be scanned** or by selecting each area and clicking on the **Add Items to be scanned** button.
2. Configure the scan options. For this purpose, press the **Configure Scan** button in the program's standard bar. This step is optional since there is a default set of scan options.
3. Press the **Scan** button. This will start the immediate scan. You will be able to view the progress of the scan in a window which is displayed for that purpose.



You may also wish to perform an immediate scan by using one of the predetermined scans. In that case, follow these steps:

1. Choose the predetermined scan you want to execute. The name of the predetermined scan indicates the areas it scans. You can consult exactly which areas the selected predetermined scan covers in the **Items to be scanned** area.
2. Press the **Scan** button. This will start the immediate scan. You will be able to view the progress of the scan in a window which is displayed for that purpose.





## Options: scanning (Immediate/Scheduled/Windows Startup - Advanced)

This tab contains diverse options which are grouped for greater convenience:

### Scan

**Compressed files:** if this option is checked, all compressed files found will be scanned. These files will only be scanned if this option is checked; selecting all extensions will not be enough.

**System files:** indicates that the IO.SYS and MSDOS.SYS files or system files will be scanned. These files are only scanned if this option is checked; it is not enough to select all the extensions.

**Electronic mail files:** if this option is checked, the antivirus program will scan all e-mail files it finds, regardless of what may be indicated in the **Extensions** section. The antivirus is capable of scanning the e-mail ( [Differences between versions](#) ) files of the **MS-Exchange/Outlook** program (PST files). These files are only scanned if this option is checked; it is not enough to select all the extensions.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

**All files:** selecting this option will ensure the scanning of all files, regardless of their extension, except for compressed files, system files and the electronic mail files of **Microsoft Outlook Express**, **Microsoft Exchange** and **Microsoft Outlook**, which must be separately checked in order to be scanned.

**Only program files:** if this option is selected, only files with EXE or COM extensions will be scanned.

**My extensions:** this option enables you to scan all the files whose extensions are included in a list. Pressing the **Extensions** button takes you to this list.

### Additional

**Enable sounds:** if you check this option, you will enable the sounds in accordance with the configuration previously set in the corresponding section of general configuration.

**Generate report:** if this option is checked, the data relative to the scan in question will be logged in the report.

**Multiple diskettes:** enables you to indicate that you want to scan several diskettes consecutively. Thus, when the antivirus has scanned one disk, it will ask you to insert the next one.

**Minimize while scanning:** if you check this option, the antivirus will automatically minimize itself when it starts the scan.

### Heuristic

**Enable:** if you check this option each file will be subjected to an additional scan in search of viruses. This second scan is performed using techniques designed to detect unknown viruses.

**Configure:** this button allows you to configure the heuristic scan. You can select one of three different levels of sensitivity and in what suspicious situations you want the antivirus to notify you.

## **Options: actions (Immediate/Scheduled/Windows Startup - Advanced)**

In this section you can indicate what action you want the antivirus program to take when it finds a virus. Depending on the action you choose, a series of options will be displayed to enable you to configure it. The different possibilities are:

### **Show information on the virus**

This action makes the antivirus show a window containing information about the virus at the moment it is detected. However, no further action will be taken.

### **Ignore and continue scanning**

Selecting this action will ensure that the antivirus program will perform no action when it detects a virus. It will continue the scan in the normal way.

### **Disinfect automatically**

Choosing this action instructs the antivirus to automatically disinfect all infected files it detects. This option can be configured, since there may be occasions on which disinfection is not possible. The configuration options are:

**Rename:** if the infected file cannot be disinfected, this option tells the antivirus to rename it by changing its extension to VIR.

**Delete:** when disinfection is impossible and this option has been selected, the antivirus will delete the infected file.

**Move:** choosing this option instructs the antivirus to move an infected file to another location when it cannot be disinfected. To complete this option, you can indicate the destination to which these infected files will be moved.

**Move – path:** lets you indicate the directory to which infected files will be copied.

**Move – e-mail address:** allows you to indicate an e-mail address to which the infected file will be sent.

### **Rename the infected file**

This option ensures that all infected files detected will be renamed.

### **Delete the infected file**

When you choose this option, the antivirus will delete all the infected files it finds.

### **Move the infected file**

If this option is selected, the antivirus will move all the infected files it detects.

**Move – path:** enables you to indicate the directory to which infected files will be copied.

**Move – e-mail address:** allows you to indicate an electronic mail address to which the infected file will be sent.

### **Ask what action to take**

This option instructs the antivirus to ask for the action to be taken each time a virus is detected. This allows you to indicate different actions within the same scan. To make the configuration more flexible, you can choose from among the options which are shown at the moment the virus is detected.

**Move:** this would correspond to the **Move** action described previously.

**Delete:** this would correspond to the **Delete** action described previously.

**Disinfect:** this would correspond to the **Disinfect** action described previously.

**Show information:** this would correspond to the **Show information** action described previously.

**Rename:** this would correspond to the **Rename** action described previously.

#### **Suspend the scan and inform in case of any other incident**

If you check this option, the scan will stop momentarily if some unexpected problem arises so that you can be informed of the incident. Once you accept the notification of the incident, the scan continues in the normal way.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

## Options: exclusions (Immediate/Scheduled/ Windows Startup - Advanced)

Exclusions allow you to indicate directories, files and/or extensions you do not want scanned.

### Directories

As part of the exclusions you can indicate entire directories so that they will not be scanned. You can exclude a directory by itself or a directory together with all its subdirectories.

**Add:** pressing the **Add** button opens a window which enables you to indicate the directories you do not want scanned. A button bearing a file folder symbol allows you to indicate either that you wish to exclude all the subdirectories included in the directory which you have excluded from scanning, or that you are excluding only the files which depend directly on the directory in question.

**Remove:** pressing this button removes directories from the list of directories not to be scanned.

**Clear:** this button lets you quickly empty the list of directories which are not to be scanned.

### Files

In the exclusions section you can also add files which you do not want scanned. You can indicate that a certain file is not to be scanned or that none of the occurrences of that file is to be scanned during the entire scanning operation. For example, if you have a file called EXAMPLE.EXE in several locations, you can either exclude one of those occurrences from scanning or all of them.

**Add:** pressing this button brings up a window which enables you to indicate the files you do not want scanned. A button bearing a file folder symbol allows you to indicate whether all occurrences of a certain file are to be excluded or only the one you have selected.

**Remove:** this button allows you to delete a file from the list of exclusions.

**Clear:** this button lets you easily empty the list of files which are not to be scanned.

### Extensions

You can also exclude from scanning all files which have a certain extension. For this purpose, just as there is a list of extensions to be scanned, there is a list of extensions which are excluded from the scan.

**Extension:** you can use this edit box to indicate the extensions that you want to include in the excluded extensions list.

**Add:** when you click on this button, the extension indicated in the edit box provided is added to the list of extensions which will not be scanned.

**Remove:** removes the selected extensions from the list.

## **Options: report (Immediate/Scheduled/Windows Startup - Advanced)**

This tab is used to configure the general options governing the report on the activity of the antivirus. The configurable options are:

### **Level of detail**

This option enables you to configure the level of detail you want in the report.

**Simple:** at this level of detail all virus-related incidents are recorded. The report will also register all errors which could affect the level of security (for example, the inability to disinfect a virus because a diskette is write-protected).

**Medium:** besides the data included on the simple level, all jobs are registered at both their start and finish. In addition, at this level the report includes all changes made in the antivirus that affect its level of protection (disabling of resident protection, etc.).

### **Size of the report**

Because the report is maintained between different antivirus sessions, if it is never erased it may reach an excessive size. This option allows you to consult the maximum size of the report.

## Options: warnings (Immediate/Scheduled/Windows Startup - Advanced)

Warnings are notifications the antivirus generates to indicate that it has detected a virus. Because of the importance of this type of notification, its configuration is flexible and powerful to ensure that the virus notification reaches the right person. The configuration options are as follows:

### In the workstation

This option enables you to choose how notification will be given of the detection of a virus in the computer in which it was found. If you indicate that you wish to see the warnings in the computer where the virus was found, a button allows you to configure the type of notification.

**Audible warning:** plays a sound at the time a virus is detected.

**Audible warning – beep:** if this option is chosen, a beep will be heard each time a virus is detected.

**Audible warning – WAV file:** if you select this option, each time a virus is detected a WAV type file will be played. You can indicate which WAV file you wish to hear.

**Show warning message:** you may also choose a warning in the form of a displayed message.

**Warning message:** this is the message that will be shown each time a virus is detected.

**Remove warning message:** in order not to stop the scan, you can indicate that you want the warning message to disappear after a certain number of seconds.

### In the network

This option instructs the antivirus to communicate the detection of a virus in one computer to other computers connected in a network with the first one.

**Send message to workstation:** you can choose to send the virus detection message to a specific workstation in the network.

**Workstation:** enables you to indicate the workstation to which you wish to send the virus detection message.

**Message:** the message which will be displayed each time a virus is detected.

**Send message to domain:** you can choose to send the virus detection message to all the workstations belonging to the same domain.

**Domain:** allows you to indicate the domain to which you wish to send the virus detection message.

**Message:** the message that will be displayed each time a virus is detected.

**Server:** here is where you can enter the name of the server through which warning messages will be sent.

### Via e-mail ( [Differences between versions](#) )

This option instructs the antivirus to use electronic mail to notify of the detection of a virus in a computer.

**Send message to address:** serves to indicate that you want an e-mail message to be sent each time a virus is detected.

**Address:** the e-mail address to which the virus detection messages will be sent.

**Message:** the message which will be shown each time a virus is detected.

**Server:** here is where you can enter the name of the server through which warning messages will be sent.

### In messages containing viruses

This option makes it possible to notify the detection of a virus in an e-mail message. The notification can be addressed to the sender or to the rest of the recipients, or the warning message can be directly inserted into the infected message.

**Insert warning in the message:** inserts a virus warning message into the same e-mail message that contains the infected file.

**Warning in the infected message:** this is the text of the notification which will be inserted into the message.

**Send warning to sender:** sends an e-mail message to the sender advising them of the detection of the virus in the message they have sent.

**Warning for the sender:** the text of the notification which will be transmitted to the sender.

**Send warning to other recipients:** sends an e-mail message to each of the remaining recipients of the infected message, if there are additional recipients.

**Warning for other recipients:** the text of the warning message which will be sent to the other recipients of an infected e-mail message.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

## Scan areas in an immediate scan (Basic)

The purpose of the immediate scan is to check one or more parts of the computer in search of viruses.

To perform an immediate scan in the basic mode, just choose one of the predetermined scans which come with the program and press the **Scan** button.

There is an area called **Items to be scanned** in the immediate scan window which enables you to see which areas are going to be scanned in search of viruses. Each one of the predetermined scans which come with the program scans different areas of the computer. When you choose a predetermined scan, you can see the associated scanning areas in the **Items to be scanned** area. It is important to bear in mind that you will not be able to modify these areas when you are working in the basic mode.

**Panda Antivirus 6.0** is capable of scanning **Microsoft Exchange**, **Microsoft Outlook** and **Microsoft Outlook Express** folders. Any of the folders belonging to these mail systems can be scanned in the same way as any other area of the computer. It should also be emphasized that **Panda Antivirus 6.0** will scan for viruses any message database belonging to any of these systems that it may find during the scan, even though the database has not been defined as a folder.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)



## **Predetermined scans in an immediate scan (Basic)**

To perform an immediate scan in the basic mode, choose one of the predetermined scans available in the **Predetermined scans** area. When you have made your choice, you will see the scanning areas associated with the selected predetermined scan in the **Items to be scanned** area. The scan will begin when you press the **Scan** button.

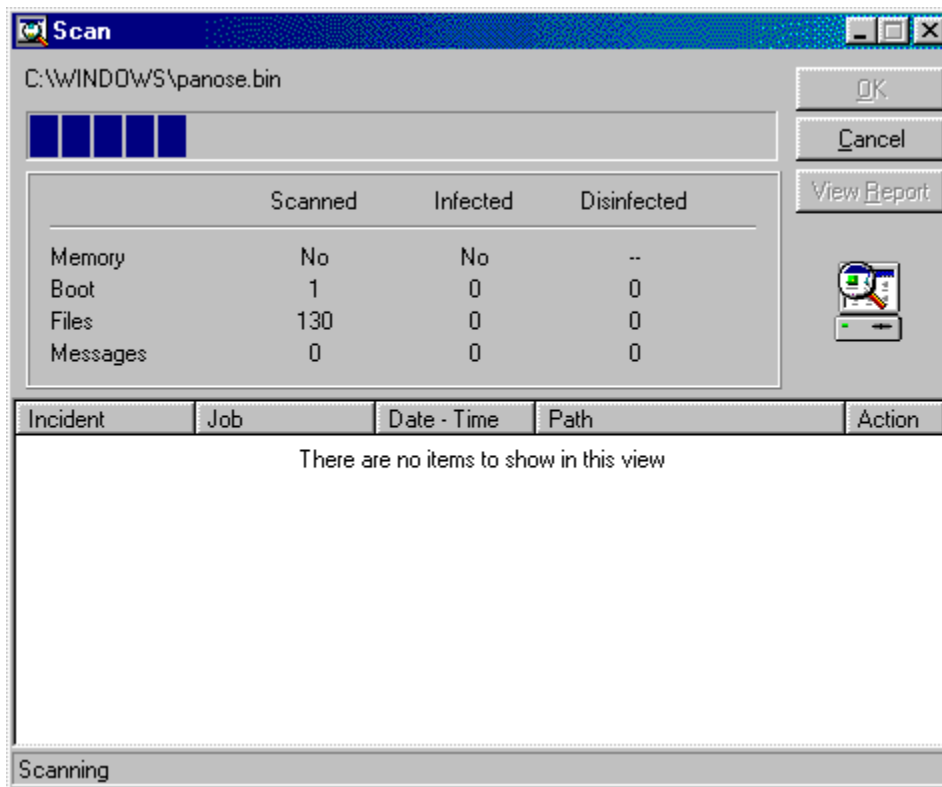
When you are working in the basic mode, you cannot add or remove predetermined scans. The predetermined scans which come with the program by default permit you to scan any of the areas of the computer prone to virus infection.

## How to perform an immediate scan (Basic)

The immediate scan area is accessed through the **Immediate** option offered by the **Go to** menu. You can also access this area by exiting the antivirus presentation pages which are displayed when the program is started up, or by using the **Panda Antivirus bar**, which shows the main options offered by the program to facilitate its use.

To perform an immediate scan in the basic mode, follow these steps:

1. Select the predetermined scan you wish. The name of the predetermined scan indicates what areas it scans. You can ascertain what specific areas are scanned by the predetermined scan you have selected by consulting the **Items to be scanned** area.
2. Press the **Scan** button to start the immediate scan. You can monitor its progress in a window that is displayed for that purpose.



If you wish to do an immediate scan which is different from the predetermined ones, or if you want to perform an immediate scan with options which are different from the default ones, you must be in the advanced mode.

## Installing Panda Antivirus 6.0

**Panda Antivirus 6.0** is available on CD-ROM and floppy disks. To install **Panda Antivirus 6.0**, you must insert the CD-ROM or the product's first floppy disk in the CD-ROM or disk drive.

If you are carrying out the installation from CD-ROM, an application will automatically be launched that will permit you to choose the **Panda Antivirus** version that you wish to install. Select the **Panda Antivirus 6.0 for Windows 95/98/NT** option. If the AutoPlay option is disabled on your computer, run the **CDMENU.EXE** program.

If you are carrying out the installation from floppy disk, there is first an added stage which will scan the computer's memory and hard drive in search of viruses. This pre-installation is in charge of executing the setup program once it has finished. The steps taken during the pre-installation process are as follows:

1. **Welcome:** the first window welcomes the user to the pre-installation process.
2. **Scanning of memory and hard disk:** this window allows you to choose whether you wish to scan the memory and/or hard disk in search of viruses, thereby assuring a safe installation. The areas that you have chosen will subsequently be scanned.
3. **Start file copy:** this window notifies you that the copying of files will begin. Once you accept to continue, the file copy process from the installer to the hard disk will begin.
4. **Installer:** once the pre-installation process has finished, the **Panda Antivirus 6.0** setup program will be executed.

The **Panda Antivirus 6.0** installation process is capable of determining whether the program is being installed for the first time or if it is an update of an older version. The procedure is similar for both cases. The following is a list of steps that will be taken during the installation:

1. **Language:** you will first be asked for the language you want the installation process to be performed in.
2. **Welcome:** the first window of the installer welcomes the user to **Panda Antivirus 6.0**.
3. **Scanning of memory and hard drive:** this window allows you to choose if you want to scan the memory and the hard drive in order to guarantee a virus-free installation.
4. **User's details:** you must type in your user name and company in order to register the product.
5. **Directory:** the program asks for the installation directory of the antivirus.
6. **Type of installation:** you may choose from one of the following: a **complete** installation, which will install all components, a **custom** installation, which allows you to choose which components to install or an [assisted installation \(Wise Setup\)](#) which, through a series of simple questions, offers the most suitable installation for each case.
7. **Program group:** allows you to choose the program group where the application's icons will be created.
8. **Summary:** once the initial phase of the gathering of installation information has concluded, a window displaying a summary of the data provided will be shown, and the program will begin to copy files.
9. **File copy:** in this section, the antivirus files will be copied onto your hard drive.
10. **Modification of the AUTOEXEC.BAT:** if you have selected the startup scan as one of the components to install, you will be offered the possibility of automatically modifying the AUTOEXEC.BAT file, so that a scan of the computer's most delicate areas is carried out each time you restart the system. You can choose to have the installer make the changes automatically, or you can make them manually at another time.

- 11. Safedisk:** permits you to execute the **Safedisk** program. The aim of this utility is to create two emergency disks. One is used to boot the computer in a virus-free environment, and the second diskette is for scanning and disinfection. It is highly recommended that you create both of these diskettes, write-protect them, conveniently label them, and store them in a safe place.
- 12. On-line registration:** thanks to this option you may register the product via Internet.
- 13. End of installation:** the last step of the installation will recommend that you restart the computer if necessary in order to finish the installation.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

## Information on viruses

With the **Virus List** button in the standard **Panda Antivirus** button bar, you can access the list of viruses detected by **Panda Antivirus**. You can obtain detailed information on each virus in the list by selecting it.

In the **Show** section you can choose among viewing all the viruses, viewing only those viruses which contaminate files, viewing those which infect the boot sector, the so-called macro viruses or a list of the most common viruses. Depending on the option you choose, you will see some or other viruses in the list.

You can indicate the name of a virus in **Search for viruses** to find a specific virus more easily. With this same purpose in mind, the virus list is shown in alphabetical order.

By selecting a virus from the list, you will see detailed information on it in the **Information on viruses** section. Among the information shown are the: name and alias, origin, size of the virus, the date it was detected, areas it infects and whether or not it can be correctly disinfected. As additional information, you will also be able to read whether the virus has specific characteristics, among which are included:

- **Resident:** when the virus is executed, it reserves a small part of the memory and installs itself in it in order to contaminate your system progressively from there.
- **Stealth:** is a technique used by some resident viruses. It consists of camouflaging the changes the virus makes in the files it infects. When a person tries to view one of the characteristics of the file modified by the virus, this one, which is resident in memory, intercepts the consultation and offers the information previous to the modification.
- **Encrypted:** viruses that have this characteristic are capable of encrypting themselves in a different way each time they infect a file. This way, it is impossible to find the virus using a string search.
- **Overwrite:** Overwriting viruses, which may be resident or non-resident, overwrite the file they infect. This file then becomes useless. The size of the file does not change unless the size of the virus is greater than that of the file. The only way to remove these viruses is by deleting the infected file and putting an uninfected copy in its place.
- **Polymorphic:** Polymorphic viruses are advanced versions of encrypted viruses. They are capable of changing their method of encryption from one generation to the next. Thus, there is no part of the virus which remains unchanged.
- **Companion:** Companion viruses are those that, in order to contaminate an EXE file, create a COM file with the same name and with the hidden attribute enabled. The virus is resident in the cited COM file. If there are two files with the same name and EXE and COM extensions, the MS-DOS operating system will first execute the one with the COM extension. This is how this type of virus propagates itself; when an attempt is made to run a program (an EXE file), what is really executed is the virus (COM file) that is then loaded in the memory, and which will typically execute the EXE file immediately afterward so that the user will not suspect anything.

The **Version** button brings up a window containing information on the virus file. The information it offers is:

- **Number of viruses:** indicates the number of viruses detected by the virus file.
- **Version:** indicates the version of the virus file. This version makes reference to the different technologies which are implemented in the file. It may be that very new releases of the virus file cannot operate properly with old versions of **Panda Antivirus**; that is why it is important to display

this information.

- **Date:** the date on which the virus file was generated.
- **Time:** the time at which the virus file was generated.
- **Size:** indicates the size of the virus file.

The **Print** button will enable you to obtain a printed copy of the information on the virus whose information is being displayed.

## **What is a scheduled scan?**

Scheduled scans make it possible to scan any part of the computer in search of viruses at certain times indicated beforehand.

The great usefulness of scheduled scans is the possibility of telling the program that it must activate itself and scan for viruses at a certain time on a certain date. This way, you can create a scan "calendar", which maximizes the ease with which the user can keep his/her computer free of viruses.

Scheduled scans work in the same way as immediate scans. You could say that a scheduled scan is, in fact, a set of immediate scans which are executed at specific times.

Because scheduled scans operate as immediate ones do, both have the same options and configuration possibilities. Scheduled scans offer the possibility of choosing the area(s) wished to be scanned. The scan is performed at the time indicated by the user. These characteristics make scheduled scans especially recommendable for scanning the computer in a regular manner and thus keeping it virus-free.

If you are in basic mode, in order to specify a scheduled scan you must choose one of the predetermined scheduled scans which come with the program. The object of these predetermined scans is to provide the most common scans in a predefined form in order to facilitate scan jobs as much as possible.

If you are in advanced mode, you also have a series of predetermined scheduled scans at your disposal. You can choose any of these or create a new scan according to your specific needs. You also have the possibility of varying the scan options. These options allow you to configure the scan to adapt it to your needs.

## Scan areas in a scheduled scan (Advanced)

In the advanced mode you can define a scheduled scan capable of scanning any part of the computer in search of virus. To select the areas to be scanned, use the **Selection tree**, where you will find displayed all the areas which can be scanned. These areas are the memory, all the drives assigned in the computer and, optionally, the e-mail folders associated with the **Microsoft Exchange**, **Microsoft Outlook** and **Microsoft Outlook Express** programs.

To determine which areas from the **Selection tree** will become **Items to be scanned**, there are three buttons with the following functions:

- **Add area:** if you select an area in the **Selection tree** and then click on this button, the area in question is added to **Items to be scanned**. You can obtain this same effect by dragging an area directly from the **Selection tree** to **Items to be scanned**.
- **Remove area:** if you select an area in **Items to be scanned** and then press this button, the selected area will be removed from **Items to be scanned**.
- **Clear:** if you press this button, all the areas listed in the **Items to be scanned** list will disappear from said list.

If you try to add an area to **Items to be scanned** which is already there, the antivirus will notify you of this fact and will cancel the operation. If you try to add an area to the **Items to be scanned** list which is included within another area that is already on the list, the antivirus will let you know but will not cancel the operation.

It is also important to bear in mind that the different items to be scanned can be added with and without subdirectories. If you attempt to add an item with subdirectories and this item is already stripped of them, the antivirus program will ask if you want to remove the version without subdirectories and add the new one which includes them.

Finally, if an area is already in **Items to be scanned** and you attempt to add a higher area which includes it, you will be given the option of removing the redundancies automatically.

**Panda Antivirus 6.0** is capable of scanning **Microsoft Exchange**, **Microsoft Outlook** and **Microsoft Outlook Express** folders. Any of the folders of these mail systems can be scanned in the same way the antivirus would scan any other area of the computer. It is also important to point out that **Panda Antivirus 6.0** will scan for viruses in any message database belonging to any of these systems which it may find during the scan, even when the message database in question is not defined as a folder.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)



## Options in a scheduled scan (Advanced)

The scan options enable you to configure how a scan in search of viruses will be carried out. To access these options, press the **Configure Scan** button in the standard button bar. All the scan options are grouped in a single window but separated into different tabs in order to make them easier to manage.

Select the section you want more information on:

[Scan.](#)

[Actions.](#)

[Exclusions.](#)

[Report.](#)

[Warnings.](#)

[Scheduler.](#)

## **Predetermined scans in a scheduled scan (Advanced)**

Predetermined scheduled scans offer the greatest ease in creating a quick and simple scan “calendar”.

A predetermined scan is a specific configuration of areas, frequencies and scan options. Predetermined scans are saved so that they can be reused as many times as needed, thus saving you an important amount of time and greatly simplifying your scanning jobs.

The program comes equipped with a series of predetermined scans. Among these predefined scans are the ones most frequently used when searching for viruses. If you wish to do a different scan, you will be able to save the specified scan configuration (areas, frequencies and scan options) to add a new predetermined scheduled scan to your list.

**Adding a new predetermined scan.** All you need to do is choose a set of scan areas and establish the scanning frequency and the desired options. When you have done this, press the *Save* button in the standard program bar. The software will ask you for a name for the new predetermined scan. Once you have given it a name, the new scan will be available in the list of predetermined scans.

**Removing a predetermined scan.** To remove a previously created predetermined scan, simply click on the scan to be removed with the right mouse button and choose the **Remove created scan** option. It is important to bear in mind that only those predetermined scans that the user has previously created can be removed; those included with the program cannot be removed.

## How to perform a scheduled scan (Advanced)

The scheduled scan area is accessed through the **Scheduled** option in the **Go to** menu. You can also get to this area by using the **Panda Antivirus bar**, which shows the main options of the program in order to make its handling easier.

To perform a scheduled scan, follow these steps:

1. Add the areas you want scanned for viruses to **Items to be scanned**. This can be done by dragging these areas from the **Selection tree** to **Items to be scanned**, or by selecting each area and clicking on the **Add Items to be scanned** button.
2. Configure the scan options. To do this, press the **Configure Scan** button in the program's standard button bar. This step is optional since there is a default set of scan options.
3. Establish a scan calendar. The options for establishing the calendar are part of the configuration window. Therefore, you can also access them by clicking on the **Configure Scan** button in the standard button bar.
4. Double-click on the new scheduled scan you have defined. This will put it into the enabled state. You can also right-click on the scheduled scan you wish to enable and then choose the corresponding option.

You may also want to perform a scheduled scan by using one of the predetermined scans. In that case, the procedure to follow is:

1. Choose the predetermined scan you want to run. The name of the predetermined scan indicates the areas it scans. You can consult specifically which areas the selected predetermined scan covers in the **Items to be scanned** area.
2. Double-click on the new scheduled scan you have defined. This will put it into the enabled state. You can also right-click on the scheduled scan you wish to enable and then choose the corresponding option.

If you wish to do an immediate scan based on the selected scheduled scan, just press the **Scan** in the program's standard button bar.

## **Options: scheduler (Scheduled/Windows Startup - Advanced)**

The scheduler's goal is to establish the periodicity with which a certain scheduled scan will be executed. You will need to indicate both the periodicity or frequency and the range of dates during which the scheduled scan in question will be enabled.

### **Frequency**

In this section you can indicate when a scheduled scan will be executed. Scheduled scans can be executed one time only or every so many hours, days or weeks, and even on certain specific days of each month. Depending on the type of frequency chosen, the program will ask you for different types of data.

**Schedule scan:** allows you to choose whether you wish to scan one time only, every so many hours, days or weeks, on certain specific days of the month, or on a specific day in the year.

**Start time:** indicates the time of day when the scan will begin.

**Time limit:** indicates the time limit the scan has to finish. If the scan is not finished at this time, the operation will be cancelled.

**Scheduling configuration:** allows you to finish configuring the option selected in **Program scan**.

### **Validity**

You can indicate that a certain scheduled scan is valid only between two dates. Once these dates have passed, the scan will never be executed again because it will have exceeded its validity period.

**Start date:** indicates the beginning date of the validity period of a scheduled scan.

**End date:** indicates the date which ends the validity period of a scheduled scan. It is optional. If you prefer not to indicate a final date, the scheduled scan will never expire.

### **Enabled**

You can use this option to enable or disable the scheduled scan in question.

## Scan areas in a scheduled scan (Basic)

The mission of the scheduled scan is to scan one or several parts of the computer in search of viruses at a series of times which the user indicates beforehand.

To enable a scheduled scan in the basic mode, simply check one of the predetermined scans which are offered. You can check several predetermined scans to be executed simultaneously. You may also decide to carry out an immediate scan starting from a certain scheduled scan. To do this, just press the *Scan* button in the standard program button bar after selecting a predetermined scan.

There is an area called **Items to be scanned** in the scheduled scan window which enables you to display which areas are going to be scanned in search of viruses each time the scheduled scan is executed. Each one of the predetermined scans which come with the program scans different areas of the computer at different times. When you choose a predetermined scan, you can see the associated scan areas in the **Items to be scanned** area. It is important to bear in mind that you will not be able to modify these areas when you are working in the basic mode.

**Panda Antivirus 6.0** is capable of scanning **Microsoft Exchange**, **Microsoft Outlook** and **Microsoft Outlook Express** folders. Any of the folders of these mail systems can be scanned in the same way the antivirus would scan any other area of the computer. It is also important to point out that **Panda Antivirus 6.0** will scan for viruses in any message database belonging to any of these systems which it may find during the scan, even when the message database in question is not defined as a folder.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

## **Predetermined scans in a scheduled scan (Basic)**

To enable a scheduled scan in the basic mode, simply select one of the predetermined scans which are offered in the **Predetermined scans** area. When you have done this, you will see the scan areas associated with the predetermined scan you selected in the **Items to be scanned** area. Once a scheduled scan has been enabled, it will be performed with the frequency you have indicated until it is disabled.

In the basic mode it is impossible to add or remove predetermined scans. The predetermined scans which come with the product by default allow the scanning of any of the areas of the computer which can possibly have viruses, and also take the most common frequencies into consideration.

## How to perform a scheduled scan (Basic)

The scheduled scan area is accessed through the **Scheduled** option in the **Go to** menu. You can also access this area by using the **Panda Antivirus bar** that shows the main options offered by the program to facilitate its use.

To perform a scheduled scan in the basic mode, follow these steps:

1. Select the predetermined scan you wish. The name of the predetermined scan indicates both the areas it will scan and the frequency with which it will scan. You can ascertain what specific areas the predetermined scan you have selected scans by consulting the **Items to be scanned** area.
2. Double-click on the predetermined scan you have selected in order to enable it. You can also right-click on the scheduled scan you wish to enable and choose the corresponding option.

If you want to perform an immediate scan based on the scheduled scan you have chosen, simply press the **Scan** button on the standard button bar.

If you wish to enable a scheduled scan which is different from any of the predetermined ones, or if you want to perform an immediate scan with options which are different from the default ones, you must be in the advanced mode.

## **What is the resident scan?**

The mission of the file resident is to monitor all the operations executed in the computer in search of viruses. This means that each time an attempt is made to run, copy, etc. a file, the resident will scan it to make sure that it is free of viruses. Only if the file is clean will the operation in question be completed; if it is contaminated, the operation will be cancelled.

Therefore, the file resident is responsible for giving a permanent protection in everything associated with the handling of files. This includes any copying of files to or from a networked computer, etc.

The file resident has a minimal impact on the performance of the system, and offers the highest degrees of protection. Therefore, we always recommend that our users have it enabled. Once it has been enabled and until it is disabled, the file resident will start up each time the computer is booted.



## How to enable the resident scan (Advanced)

The area scan by means of the file resident is accessed through the **Resident** option in the **Go to** menu. You can also access the area by using the **Panda Antivirus bar**.

To enable the file resident scan, check the **Resident enabled** option in the **Resident status** section. From that moment on, the file resident will monitor all the file-related operations which are performed in the computer, thus preventing it from being infected.

In the **Resident** section, the report on the activity of the file resident is displayed. All the events which are related to the work of the resident will be progressively recorded in this file.

To complete this information, the **Resident status** section offers additional information regarding the activity of the resident:

- **Files checked:** number of files the resident has scanned for viruses from the beginning of its activity (normally since the booting of the computer).
- **Viruses found:** number of viruses detected by the resident.
- **Total scan time:** total time invested by the resident in the scanning of files.

## Resident scan options (Advanced)

The file resident scan options allow you to configure the way in which this type of scan is performed. To access these options, press the **Configuration** button in the **Resident status** section. All the scanning options are grouped in a single window but are separated into different tabs to make managing them easier.

Choose the section on which you want more information:

[Scan.](#)

[Actions.](#)

[Exclusions.](#)

[Report.](#)

[Warnings.](#)

## How to disable the resident scan (Advanced)

First, access the file resident scan area through the **Resident** option in the **Go to** menu, or by using the Panda Antivirus bar.

To disable the resident file protection, uncheck the **Resident enabled** option in the **Resident status** section. It is important to bear in mind that, from the moment the file resident is disabled, the computer will be without permanent protection, and will thus be vulnerable to contamination by viruses.

Disabling the scan by the file resident means that the files the system accesses will not be scanned. However, the file resident will still be loaded in memory despite not being enabled. Moreover, the resident will continue to be loaded in memory each time the computer is booted, regardless of the fact that it is not enabled.

**Unload:** the advanced mode includes an additional option which makes it possible to unload the resident module from memory. When this is done, the file resident will not be loaded when the computer is booted.

## Options: scan (Resident - Advanced)

This tab contains two groups of options:

### What operations must be scanned

**Opening:** all accesses to a file (to open it, execute it, etc.) entail opening it. If this option is checked, all the files the operating system attempts to open will be scanned.

**Closing:** just as all accesses to a file require its opening, a subsequent closing of the file will be necessary. Checking this option will ensure the scanning of all files when they are closed. The advantage of scanning files as they are closed lies in the fact that, sometimes, the file can be clean when opened, but be contaminated before it is closed.

**Move / Rename:** this option orders the file resident to scan all file copying, moving and renaming operations.

**Compressed files:** if this option is checked, all the compressed files found will be scanned.

**Save results:** if you check this option, the information relative to the scan in question will be logged in the report.

### What files must be scanned

**All files:** selecting this option will ensure the scanning of all files, regardless of their extension.

**Only Program files:** if this option is selected, only files ending in the extension EXE or COM will be scanned.

**My extensions:** this option enables you to scan all the files whose extensions are on a list. This list is accessed by pressing the *Extensions* button.

## **Options: actions (Resident - Advanced)**

In this section you can indicate what action you want the antivirus program to take when it finds a virus. Depending on the action you choose, a series of options will be displayed to enable you to configure it. The different possibilities are:

### **Show information on the virus**

This action causes the antivirus to show a window containing information about the virus in the moment it is detected. However, no further action will be taken.

### **Ignore and continue scanning**

Selecting this action will ensure that the antivirus program will perform no action when it detects a virus. It will continue the scan in the normal way.

### **Disinfect automatically**

Choosing this action orders the antivirus to automatically disinfect all the infected files it detects. This option can be configured, since there may be occasions on which disinfection is not possible. The configuration options are:

**Rename:** if the infected file cannot be disinfected, this option tells the antivirus to rename it by changing its extension to VIR.

**Delete:** when disinfection is impossible and this option has been selected, the antivirus will remove the infected file.

**Move:** choosing this option orders the antivirus to move an infected file to another location when it cannot be disinfected. To complete this option, you can indicate the destination to which these infected files will be moved.

**Move – path:** lets you indicate the directory to which infected files will be copied.

**Move – e-mail address:** allows you to indicate an e-mail address to which the infected file will be sent.

### **Rename the infected file**

This option ensures that all infected files detected will be renamed.

### **Delete the infected file**

When you choose this option, the antivirus will delete all the infected files it finds.

### **Move the infected file**

If this option is selected, the antivirus will move all the infected files it detects.

**Move – path:** enables you to indicate the directory to which infected files will be copied.

**Move – e-mail address:** allows you to indicate an electronic mail address to which the infected file will be sent.

### **Ask what action to take**

This option tells the antivirus to ask for the action to be taken each time a virus is detected. This allows you to indicate different actions within the same scan. To make the configuration more flexible, you can choose from among the options which are shown at the moment the virus is detected.

**Move:** this would correspond to the **Move** action described previously.

**Delete:** this would correspond to the **Delete** action described previously.

**Disinfect:** this would correspond to the **Disinfect** action described previously.

**Show information:** this would correspond to the **Show information** action described previously.

**Rename:** this would correspond to the **Rename** action described previously.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

## Options: exclusions (Resident - Advanced)

Exclusions allow you to indicate directories, files and/or extensions you do not want scanned.

### Directories

As part of the exclusions you can indicate entire directories so that they will not be scanned. You can exclude a directory by itself or a directory together with all its subdirectories.

**Add:** pressing the **Add** button opens a window which enables you to indicate the directories you do not want scanned. A button bearing a file folder symbol allows you to indicate either that you wish to exclude all the subdirectories included in the directory which you have excluded from scanning, or that you are excluding only the files which depend directly on the directory in question.

**Remove:** pressing this button removes directories from the list of directories not to be scanned.

**Clear:** this button lets you quickly empty the list of directories which are not to be scanned.

### Files

In the exclusions section you can also add files which you do not want scanned. You can indicate that a certain file is not to be scanned or that none of the occurrences of that file is to be scanned during the entire scanning operation. For example, if you have a file called EXAMPLE.EXE in several locations, you can either exclude one of those occurrences from scanning or all of them.

**Add:** pressing this button brings up a window which enables you to indicate the files you do not want scanned. A button bearing a file folder symbol allows you to indicate whether all occurrences of a certain file are to be excluded or only the one you have selected.

**Remove:** this button allows you to delete a file from the list of exclusions.

**Clear:** this button lets you easily empty the list of files which are not to be scanned.

### Extensions

You can also exclude from scanning all files that have a certain extension. For this purpose, just as there is a list of extensions to be scanned, there is a list of extensions which are excluded from the scan.

**Extension:** you can use this edit box to indicate the extensions that you want included in the excluded extensions list.

**Add:** when you click on this button, the extension indicated in the edit box provided is added to the list of extensions which will not be scanned.

**Remove:** removes the selected extensions from the list.

## **Options: report (Resident - Advanced)**

This tab is used to configure the general options governing the report on the activity of the antivirus. The configurable options are as follows:

### **Level of detail**

This option enables you to configure the level of detail you want in the report.

**Simple:** at this level of detail all virus-related incidents are recorded. The report will also register all the errors which could affect the level of security (for example, the inability to disinfect a virus because a diskette is write-protected).

**Medium:** besides the data included on the simple level, all jobs are registered at both their start and finish. In addition, at this level the report includes all the changes which are made in the antivirus software which affect its level of protection (disabling of resident protection, etc.).

### **Size of the report**

Because the report is maintained between different antivirus sessions, if it is never erased it may reach an excessive size. This option allows you to consult the maximum size of the report.



## Options: warnings (Resident - Advanced)

Warnings are notifications the antivirus generates to indicate that it has detected a virus. Because of the importance of this type of notification, its configuration is flexible and powerful to ensure that the virus notification reaches the right person. The configuration options are as follows:

### In the workstation

This option enables you to choose how notification will be given of the detection of a virus in the computer in which it was detected. If you indicate that you wish to see the warnings in the computer where the virus was found, a button allows you to configure the type of notification.

**Audible warning:** plays a sound the moment a virus is detected.

**Audible warning – beep:** if this option is chosen, a beep will be heard each time a virus is detected.

**Audible warning – WAV file:** if you select this option, each time a virus is detected a WAV type file will be played. You can indicate which WAV file you wish to hear.

**Show warning message:** you may also choose a warning in the form of a displayed message.

**Warning message:** this is the message that will be shown each time a virus is detected.

**Remove warning message:** in order not to stop the scan, you can indicate that you want the warning message to disappear after a certain number of seconds.

### In the network

This option instructs the antivirus to communicate the detection of a virus in one computer to other computers that are connected in a network with the first one.

**Send message to workstation:** you can choose to send the virus detection message to a specific workstation in the network.

**Workstation:** enables you to indicate the workstation to which you wish to send the virus detection message.

**Message:** the message which will be displayed each time a virus is displayed.

**Send message to domain:** you can choose to send the virus detection message to all the workstations belonging to the same domain.

**Domain:** allows you to indicate the domain to which you wish to send the virus detection message.

**Message:** the message that will be displayed each time a virus is detected.

**Server:** here is where you can enter the name of the server through which warning messages will be sent.

### Via e-mail ( [Differences between versions](#) )

This option instructs the antivirus to use electronic mail to notify the detection of a virus in a computer.

**Send message to address:** serves to indicate that you want an e-mail message to be sent each time a virus is detected.

**Address:** the e-mail address to which the virus detection messages will be sent.

**Message:** the message which will be shown each time a virus is detected.

### In messages containing viruses

This option makes it possible to notify the detection of a virus in an e-mail message. The notification can be addressed to the sender or to the rest of the recipients, or the warning message can be directly inserted into the infected message.

**Insert warning in the message:** inserts a virus warning message into the same e-mail message which contains the infected file.

**Warning in the infected message:** this is the text of the notification which will be inserted into the message.

**Send warning to sender:** sends an e-mail message to the sender advising them of the detection of the virus in the message they have sent.

**Warning for the sender:** the text of the notification which will be transmitted to the sender.

**Send warning to the other recipients:** sends an e-mail message to each of the remaining recipients of the infected message, if there are additional recipients.

**Warning for other recipients:** the text of the warning message which will be sent to the other recipients of an infected e-mail message.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

## How to enable the resident scan (Basic)

The area pertaining to scanning by the file resident is accessed through the **Resident** option in the **Go to** menu. You can also access the area by using the **Panda Antivirus bar**.

To enable the file resident, check the **Resident enabled** option in the **Resident status** section. From that moment on, the file resident will monitor all the file-related operations which are performed in the computer, thus preventing it from being infected.

In the **Resident** section the report on the activity of the file resident is displayed. All the events which are related to the work of the resident will be progressively recorded in this file.

To complete this information, the **Resident status** section offers some additional data regarding the activity of the resident:


- **Files checked:** number of files the resident has scanned for viruses from the beginning of its activity (normally since the booting of the computer).
- **Viruses found:** number of viruses detected by the resident.
- **Total scan time:** total time taken by the resident in the scanning of files.

## How to disable the resident scan (Basic)

First, access the file resident scan area through the **Resident** option in the **Go to** menu, or by using the **Panda Antivirus bar**, which displays the main options of the program in order to facilitate its use.

To disable the file resident, uncheck the **Resident enabled** option in the **Resident status** section. It is important to bear in mind that, from the moment the file resident is disabled, the computer will be without permanent protection, and will thus be vulnerable to virus infection.

## What is the Internet scan?

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

The Internet is a worldwide network made up of interconnected computers. By means of the access offered by an Internet service provider, the users of this international network can connect to it and use its services. The Internet offers different types of services. The best known among them are:

- **Web pages:** one of the best known Internet services. Web pages are pages of text and graphics in a format called HTML. Anyone can create his or her own Web pages and “publish” them (leave them in any Web page server) so that they are accessible to all Internet users. One of the most important characteristics of Web pages are their hyperlinks. A hyperlink is a connecting device joining two pages which can be in different servers located anywhere in the world. Thus, the mass of existing Web pages constitute a gigantic book containing subjects to please every taste, and offering the possibility of jumping from one “chapter” to another by clicking on a hyperlink. To display Web pages, you need a program known as a navigator or Internet browser.
- **Electronic mail (e-mail):** this is the other “basic” Internet service. It operates in a way that is similar to regular mail. Any user with access to an e-mail server can send and receive messages to and from any part of the world. The messages that are sent will go to the recipient’s e-mail server, not directly to their computer. Thus, there is no need for them to have their computer connected to the server (nor even turned on) in order to receive incoming mail. In addition to text, the messages that are sent can include files of all types that the senders may attach to them. To send and receive electronic mail, an e-mail program is required.
- **File transfer:** through this service, better known as FTP, Internet users can download files left in file servers. One way to describe this is to say that the FTP programs enable any user to connect to a file server connected to the Internet and to view its directories and files as if they were in your own computer. If you want to work with those files, the FTP program allows you to download them onto your computer. It is well worth noting that files can also be downloaded from Web pages.
- **News (NNTP):** through this service, you can access newsgroups being discussed or that are placed in certain servers for consultation and subsequent discussion. You can also subscribe in order to periodically receive e-mails containing the latest news, although these may be infected. You can scan all the news received from **Exchange/Outlook** and **Outlook Express**.

The four services described above are the most important and widely used of all those offered by the Internet. Each of them uses a different protocol to operate. The question is: what is a protocol? A protocol is a means of exchanging information. The protocol enables the Internet server and the computer which connects to it to understand each other. Thus a protocol is the “language” which must be spoken to ensure communication between the two.


The protocol used to work with Web pages is called **HTTP**, the one used for sending e-mail is **SMTP** and the one used to receive it is **POP3**. The protocol used for transferring files in the Internet is called **FTP**. Lastly, the protocol used for news services is **NNTP**.

The Internet scan keeps watch on all the operations which are carried out with the protocols mentioned above (**HTTP**, **SMTP**, **POP3**, **FTP** and **NNTP**). Therefore, everything that comes into the computer via any of these pathways will be intercepted by the Internet scan, which will take care of checking it for viruses. If an e-mail message is received or sent, the Internet scan will make sure that it is free of viruses. Likewise, it will examine all files which are downloaded using the **FTP** or **HTTP** protocols. Finally, all the contents that may be associated with a Web or **HTML** page will be also be scanned for viruses while they are being received by means of the **HTTP** protocol.

As you can see, the Internet scan is responsible for providing permanent protection against possible viruses in all contents received from the Internet, thus relieving the user of this burden and offering the highest levels of security since, for example, in the case of e-mail, it not only scans the incoming mail but also the outgoing messages, thus ensuring that viruses will not be distributed. Due to the high levels of protection offered by the Internet scan, we recommend having it always enabled.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

## How to enable the Internet scan (Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

The Internet scan area is accessed through the **Internet** option in the **Go to** menu. You can also access the area by using the **Panda Antivirus bar**.


To enable the Internet scan, check the **Internet enabled** option in the **Internet status** section. From that moment on, the Internet scan will monitor all the Internet-related operations which are performed on the computer, thus preventing infection.

The report on the activity of the file resident is displayed in the **Internet** section. All the events which are related to the operation of the Internet scan will be progressively recorded in this file.

To complete this information, the **Internet status** section offers some additional data regarding the activity of the Internet scan:

- **Files checked:** number of files the Internet scan has checked for viruses from the beginning of its activity (normally from the time the computer is booted).
- **Viruses found:** number of viruses detected by the Internet scan.
- **Total scan time:** total time taken by the Internet scan in the scanning of files.

## Options in the Internet scan (Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

The Internet scan options enable you to configure how this scan will be performed. To access these options, press the **Configuration** button in **Internet status**. All the scan options are grouped in a single window but separated into different tabs to make them easier to manage.

Select the section on which you want more information:

[Electronic mail.](#)

[Internet.](#)

[Actions.](#)

[Report.](#)


[Warnings.](#)

[Ports.](#)

[Blocking.](#)



## How to disable the Internet scan (Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)


First, access the Internet scan area through the **Internet** option in the **Go to** menu, or by using the Panda Antivirus bar.

To disable the Internet scan, uncheck the **Internet enabled** option in the **Internet status** section. It is important to bear in mind that, from the moment the Internet scan is disabled, the computer will be without protection against possible viruses in the incoming Internet contents, and will thus be vulnerable to infection.

Disabling the Internet scan means that the Internet contents that are accessed will not be scanned. However, the Internet scan will still be loaded in memory despite not being enabled. Moreover, the Internet scan will continue to be loaded in memory each time the computer is booted, regardless of the fact that it is not enabled.

**Unload:** the advanced mode includes an additional option which makes it possible to unload the Internet scan module from memory. When this is done, the Internet scan will not be loaded when the computer is booted.

## How to enable the Internet scan (Basic)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

The Internet scan area is accessed through the **Internet** option in the **Go to** menu. You can also access the area by using the **Panda Antivirus bar**, which shows the main options offered by the program in order to make using it easier.


To enable the Internet scan, check the **Internet enabled** option in the **Internet status** section. From that moment on, the Internet scan will monitor all the Internet-related operations which are performed on the computer, thus preventing infection.

The report on the activity of the file resident is displayed in the **Internet** section. All the events which are related to the operation of the Internet scan will be progressively recorded in this file.

To complete this information, the **Internet status** section offers some additional data regarding the activity of the Internet scan:

- **Files checked:** number of files the Internet scan has checked for viruses from the beginning of its activity (normally from the time the computer is booted).
- **Viruses found:** number of viruses detected by the Internet scan.
- **Total scan time:** total time taken by the Internet scan in the scanning of files.

## How to disable the Internet scan (Basic)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

First, access the Internet scan area through the **Internet** option in the **Go to** menu, or by using the **Panda Antivirus bar**, which displays the main options offered by the program in order to make it easier to handle.

To disable the Internet scan, uncheck the **Internet enabled** option in the **Internet status** section. It is important to bear in mind that, from the moment the Internet scan is disabled, the computer will be not be protected against possible viruses in the incoming Internet contents, and will thus be vulnerable to infection.

## Computer viruses

One of the best defenses against viruses is understanding them. By knowing how the different kinds of viruses operate, what parts of the computer they affect and how they behave, you will be better able to defend yourself against them.

Basically, we can mention three types of viruses:

[Boot viruses.](#)

[File viruses.](#)

[Macro viruses.](#)

In the following paragraphs we will explain some of the techniques used by the different types of viruses:

[Techniques used by viruses.](#)

## How to prevent infections

Below is some advice about how to prevent virus infections. Remember that prevention is one of the most efficient tools for combating computer viruses.

**Backup copies:** make a habit of regularly copying your most important data on backup copies. This is one of the most common pieces of advice in the computer world, but one that is rarely followed. Regular backup copies do not only solve the problem of viruses, but also get round any problem arising in the computer. If backup copies are only made of important data, then your copies will be quick and easy to make. A backup copy should be made at least once every month.

**Scan everything you receive:** this is one of the most important bases for prevention. Scan any programs or files that you are going to introduce or have introduced in your computer before you run or open them. This will allow you to detect possible viruses before they have time to infect any of your files.

**Use permanent active protection:** permanent protections constantly check all operations carried out in the computer that might be infected by a virus. If you possess a reliable permanent protection such as that included in **Panda Antivirus 6.0**, the risk of infection is minimal and work with your computer is greatly facilitated, as you no longer have to remember to scan everything you receive. Your permanent protection takes care of it automatically.

**Periodic scanning:** scan your entire computer periodically. With **Panda Antivirus 6.0** it is easy to carry out periodic scans at times when you are not working with the computer. This type of periodic scanning will prevent any virus that has entered your computer from spreading too far. It is best to scan the whole system at least once a week, although this will depend on how much you use your computer.

**Keep up-to-date:** given the number of new viruses that are detected every month – some 300 – it is essential that you have an update service to keep your antivirus up-to-date. Otherwise your computer will be at the mercy of the new, dangerous viruses that continuously appear.

**Clean boot disk:** to prevent future problems, always keep a virus-free boot disk at hand. This will make it easier to clean your computer in case it becomes contaminated by a virus. The **Safedisk** utility that comes with **Panda Antivirus 6.0** creates two disks, the first for booting and the second for disinfection. Together they make up an essential tool for cleaning a computer that has been infected by a virus.

## Recovery disk (Safedisk)

A recovery disk is one or several disks that allow a computer to be scanned and disinfected in a safe environment. A safe environment is any computer in which there are no viruses resident in memory that might interfere with scanning or disinfection.

**Panda Antivirus 6.0** comes with a utility called **Safedisk** for automatically creating the above-mentioned recovery disk. The **Safedisk** utility generates two diskettes, one for booting and the other for disinfection. The first allows the computer to be started up from a diskette, thus guaranteeing that no virus is loaded into the memory at computer startup (assuming the diskette is virus-free). The second contains our command-line antivirus (PAVCL) which allows the computer to be scanned and disinfected from the diskette itself.

It is very important that the **Safedisk** utility be executed in a virus-free computer to guarantee that the two diskettes generated are virus-free. Otherwise the diskettes generated will be of no use, as they will not permit the virus-free booting of the computer.

To generate the above-mentioned diskettes, take the following steps:

1. Execute the **Safedisk** utility. This possibility is offered during the installation of **Panda Antivirus 6.0** but can also be done at any later stage using the corresponding icon located in the **Panda Antivirus 6.0** program group.
2. The first window of **Safedisk** will inform you of the purpose of this utility. You should have two formatted, high-density 3½" diskettes ready so that **Safedisk** can create the boot disk and the disinfection disk. You may exit the program by pressing the **Cancel** button.
3. If you continue, the first of the disks will be formatted, then the necessary files will be copied to convert the disk into a boot disk.
4. When the preparation of disk number 1 is complete, disk number 2 will be requested.
5. The second diskette will be formatted and the necessary files copied for the operation of **Pavcl**.
6. When the whole process is complete, a window will appear showing recommendations. Write-protect the disks you have created. This will prevent accidental deletion or the possibility of contamination by a virus if inserted into an infected computer. Label the disks so that they can be easily identified and keep them in a safe place.
7. Lastly, press the **Finish** button to close the **Safedisk** utility.
8. Remember, to scan in a clean environment, you should boot with the first disk and then insert the second. After this, you can run **Pavcl**. The following command scans all your computer drives in search of viruses and disinfects any it finds: **PAVCL /ALL /CLV**.

## Characteristics of Panda Antivirus 6.0

The following are some of the characteristics of **Panda Antivirus 6.0**.

**Centralized management:** in order to guarantee maximum protection, various scan types are necessary. Some of them are for providing permanent protection and others for protecting new entryways for viruses such as e-mail or Internet. **Panda Antivirus 6.0** incorporates all sorts of scans for protection against any eventuality, but comes with an interesting new feature: centralized management. All the scans (including permanent protection) are managed from a single program. This makes it easier for the user to handle and provides a greater level of security.

**Two operating modes:** ease of use is one of the most highly-appreciated characteristics of a program. However, difficulties often arise with respect to power and the program's potential as flexibility and the fact that the program offers many options generally complicate its operation, especially for less experienced users. With this in mind, **Panda Antivirus 6.0** offers two operating modes: advanced and basic. Both offer the same protection against viruses. The difference between them is that the basic mode offers the greatest possible ease of use in performing scans, whereas the advanced mode offers everything that an antivirus product can offer without neglecting ease of handling.

**Report:** all operations carried out by the antivirus as well as incidents detected can be logged in a report for subsequent consultation. The degree of detail included in the report can be configured. All the information is kept between different sessions of the antivirus so that the data can be consulted whenever necessary.

**Warnings:** a complete warning system warns of the presence of a virus detected in the computer via the network (if connected to one) or by sending an e-mail message.

**Updates:** the antivirus updates itself either via CD-ROM or diskettes or through the Internet. In addition, updates can be scheduled to take place periodically without user intervention.

**Predetermined scans:** predetermined scans are one of the most important characteristics of **Panda Antivirus 6.0**. These predefined scans allow for scanning at the touch of a single button. All you need to do is choose the scan you want from the list of predefined scans and click the **Scan** button.

**Scanning from the File Explorer:** by offering a high degree of integration with the operating system, **Panda Antivirus 6.0** allows you to carry out immediate scans from the Windows File Explorer at the touch of a button and without previously having to open the antivirus.

**Integration with the Maintenance Wizard:** the Maintenance Wizard is one of the new characteristics of Windows 98. **Panda Antivirus 6.0** integrates with the wizard to facilitate the execution of the antivirus at the most convenient times.

**Note:** some options are only available depending on the product purchased and the configuration of the operating system. For further information, consult [Differences between versions](#)

## Detection of a virus: what to do

Any of the various scans that are possible in **Panda Antivirus** are capable of detecting viruses and act accordingly. Disinfection is one of the possible actions. There is no specific section for disinfection in the program as this is considered as just another action that can be taken upon the detection of a virus.

**Panda Antivirus 6.0** respects and maintains the information in files and in e-mails as it allows for disinfection in both cases. Other antiviruses limit themselves to deleting any infected e-mail messages that are detected ( [Differences between versions](#) ). In the same way that this is not considered acceptable in the case of files, it should not be done with e-mail messages. By disinfecting infected files attached to an e-mail message, **Panda Antivirus 6.0** respects the information it contains and saves the effort of requesting that the message be sent again, this time free of infection. This total protection of information is possible thanks to the fact that **Panda Antivirus 6.0** is also capable of detecting and disinfecting viruses in e-mail messages that are sent, not just in those that are received.

In addition, it is important to note that the disinfection of an infected file attached to an e-mail message is carried out in memory, since such disinfection should not be carried out on the hard drive because of possible interference from other antiviruses or even from another program. Not all antiviruses carry out disinfection with the guarantee of non-interference from other programs.

The action to be taken when a virus is detected is one of the configuration options for each of the different scans. Therefore, any action other than the default action can only be indicated when in the **Advanced** mode.

A specific action to be taken can be indicated when a virus is detected or the antivirus can be instructed to ask what action should be taken whenever a virus is detected. The diverse actions available are as follows:

- **Disinfect:** will disinfect the infected file returning it to its original condition.
- **Show information:** will display detailed information on the virus without taking any further action.
- **Delete:** will delete the infected file.
- **Move:** will move the infected file to a specified location. This allows you to create a space to keep viruses “in quarantine”.
- **Rename:** will rename the infected file by changing its extension.
- **Ignore:** no action will be carried out and the scan will continue normally.



## Virus detected in memory

If you suspect there may be a virus in the memory, switch off the computer, insert a boot disk that you are sure is virus-free (if you are going to carry out the disinfection from CD-ROM, the diskette should load the CD drivers), and reset the computer.

If you used the **Safedisk** program during installation or at any other time, use disk number 1 generated by this utility as a boot disk. Disk number 2 contains our command-line version of the antivirus, **Pavcl**.

Once you have started, run our command-line antivirus (PAVCL) as follows:

- If you wish to execute **Pavcl** from a diskette, insert disk number 1 of **Panda Antivirus** for DOS/Windows 3.1x or the second diskette generated by **Safedisk** and enter:

```
PAVCL /ALL /CLV /AEX /AUT
```

- If you wish to execute **Pavcl** from our CD-ROM, insert it in the drive, go to the DOSWIN3X directory and the desired language and enter the following:

```
PAVCL /ALL /CLV /AEX /AUT
```

The above-mentioned command will carry out a scan of all system drives searching for viruses in all files and trying to disinfect all viruses found without requesting user intervention. **Pavcl** is the command-line version of **Panda Antivirus** and detects and removes the same viruses as any version of **Panda Antivirus**.

## **Virus detected in a file**

If you have detected a virus in one or more files, proceed as follows:

1. Go to **Immediate scan** (Advanced mode).
2. Choose the predetermined scan **All hard drives**.
3. Press the **Configure scan** button on the standard button bar.
4. In the **Scan** section check the options **Compressed files**, **Automatic** and **Save results**. Choose the **All files** option.
5. In the **Actions** section choose the **Disinfect automatically** option.
6. Make sure that in the **Exclusions** section there are no exclusions specified to be sure that all files on all hard drives are scanned.
7. Accept the changes made in the scan configuration window.
8. Press the **Scan** button on the standard button bar.

The above-mentioned procedure will scan and disinfect all the files on your hard drives leaving the system free of viruses, and will subsequently display a window with two tabs, one with information on the virus detected and the other on the infected file.

## Virus detected in the boot

In order to disinfect a boot virus, two diskettes are needed: a boot disk to guarantee virus-free booting and another for disinfection.

It is possible to create a boot disk using the **Safedisk** utility included with **Panda Antivirus** or using the procedure described below.

If the **Safedisk** tool is used, it will create two disks, firstly a boot disk and secondly a disinfection disk. Otherwise, you have all the necessary tools for disinfection in the DOSWIN3X directory on the **Panda Antivirus** CD-ROM.

The procedure is as follows:

1. Switch off your computer. Insert a virus-free boot disk (if you are going to carry out disinfection from the CD-ROM, the diskette should load the CD drivers), and reset your computer.
2. Once you have started the computer, insert the disinfection disk. If you are going to carry out disinfection from the CD, insert the **Panda Antivirus** CD-ROM and go to the DOSWIN3X directory.
3. Then execute our command-line antivirus (PAVCL) by typing the following: **PAVCL /ALL /CLV /AEX**.
4. If a virus is detected in memory once, you should continue. When the virus is found on the hard drive, press **S** to disinfect.

## Boot disk

To generate a virus-free boot disk, it is necessary for such a disk to be created on a virus-free computer. The **Safedisk** utility is for creating such disks, first a boot disk and then a disinfection disk.

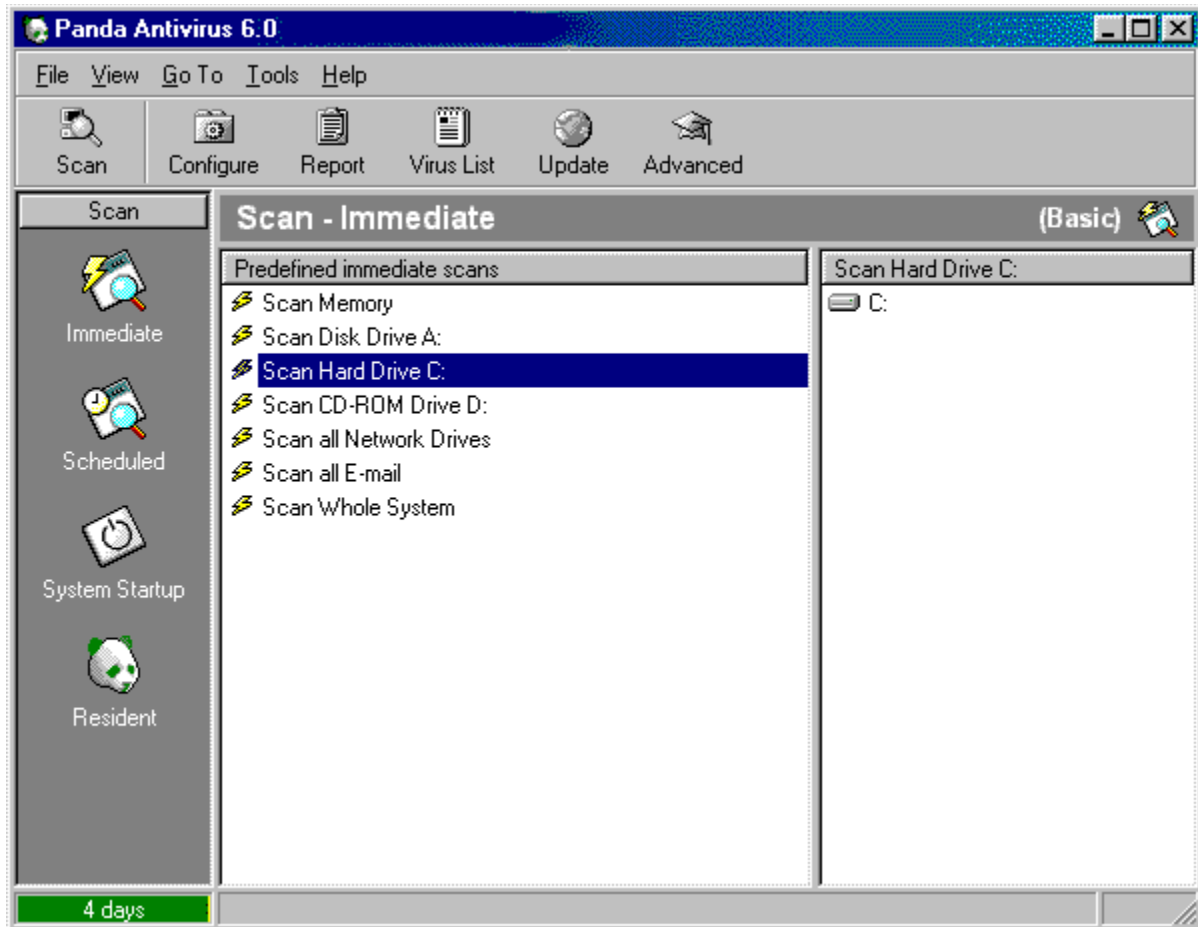
If you created the above-mentioned diskettes with the **Safedisk** utility before virus infection, use the first diskette as the boot disk. If you did not create these diskettes, find a virus-free computer and take the following steps:

1. Insert an empty disk and type **FORMAT A: /S**.
2. Go to the DOS directory using the command **CD DOS**.
3. Copy the HIMEM.SYS and SMARTDRV.EXE files on the diskette by typing **COPY HIMEM.SYS A:** followed by **COPY SMARTDRV.EXE A:.**
4. Edit the CONFIG.SYS file in drive A using the following command: **EDIT A:\CONFIG.SYS**.
5. On the editor that appears, type the following two lines: **DEVICE=HIMEM.SYS** and **DOS=HIGH**.
6. Choose the **Save** option in the **File** menu then the **Exit** option in the same menu..
7. Edit the AUTOEXEC.BAT file in drive A using the following command: **EDIT A:\AUTOEXEC.BAT**.
8. On the editor that appears, type the following line: **SMARTDRV . EXE**.

Choose the **Save** option in the **File** then the **Exit** option within the same menu.

## Immediate scan (Basic)

Two mouse clicks are all that are needed to run an immediate scan in basic mode. The function of this scan is to guarantee maximum security with minimum complexity of use.



Basically, running an immediate scan in basic mode consists of selecting one of the predetermined scans and clicking on the **Scan** button. When a predetermined scan is selected, the areas to be scanned will be shown so that the user will know exactly what the scan consists of.

It is also possible to select one or more areas of the items to be scanned section and click on the **Scan** button to immediately start a scan of the chosen areas.

For more information on any aspect of an immediate scan, click on one of the following subjects:

[How to perform an immediate scan.](#)

[Scan areas in an immediate scan.](#)

[Immediate scan options.](#)

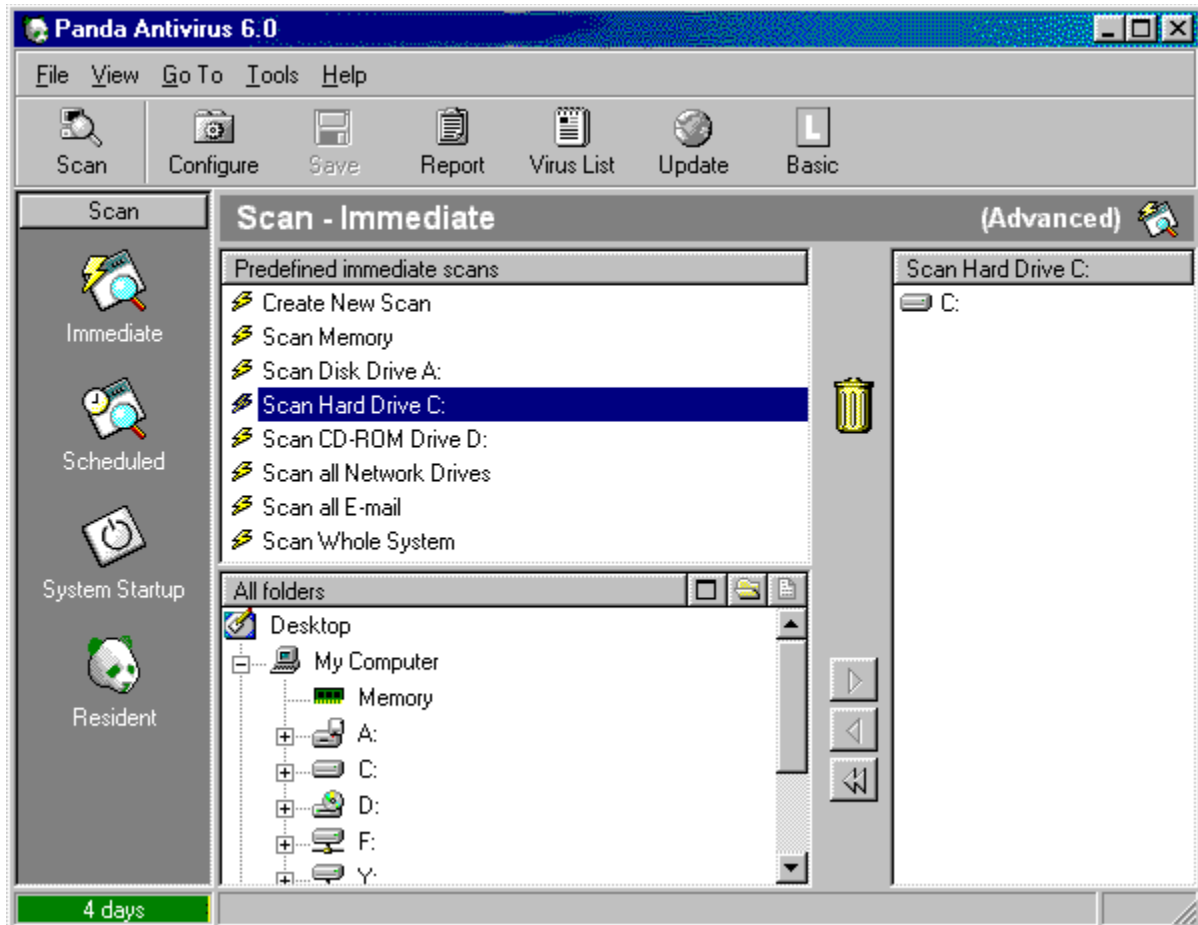
[Predetermined immediate scans.](#)

[Scanning from the File Explorer.](#)



## Immediate scan (Advanced)

Immediate scans are a fundamental part of **Panda Antivirus**. These permit you to scan any area of the computer (memory, hard drive, floppy drives, network drives, etc.) at any given time.



To scan even more quickly and easily, you can select one or several areas in the items to be scanned section, then click on the **Scan** button to start an immediate scan of the selected areas.

In the advanced mode, immediate scans can be totally configured. Areas and scan options are user selectable. In keeping with the **Panda Antivirus** motto of maximum security with minimum complexity of use, a series of predetermined scans are available in advanced mode immediate scans which facilitate the scanning process.

The configuration possibilities, as well as the capacity to create new predetermined scans that will be available both in the advanced and basic modes, are the strengths of the advanced mode. These newly-created predetermined scans are saved and available to be used until removed by the user.

For more detailed information on each of the above-mentioned points, click on the following subjects:

[How to perform an immediate scan.](#)

[Scan areas in an immediate scan.](#)

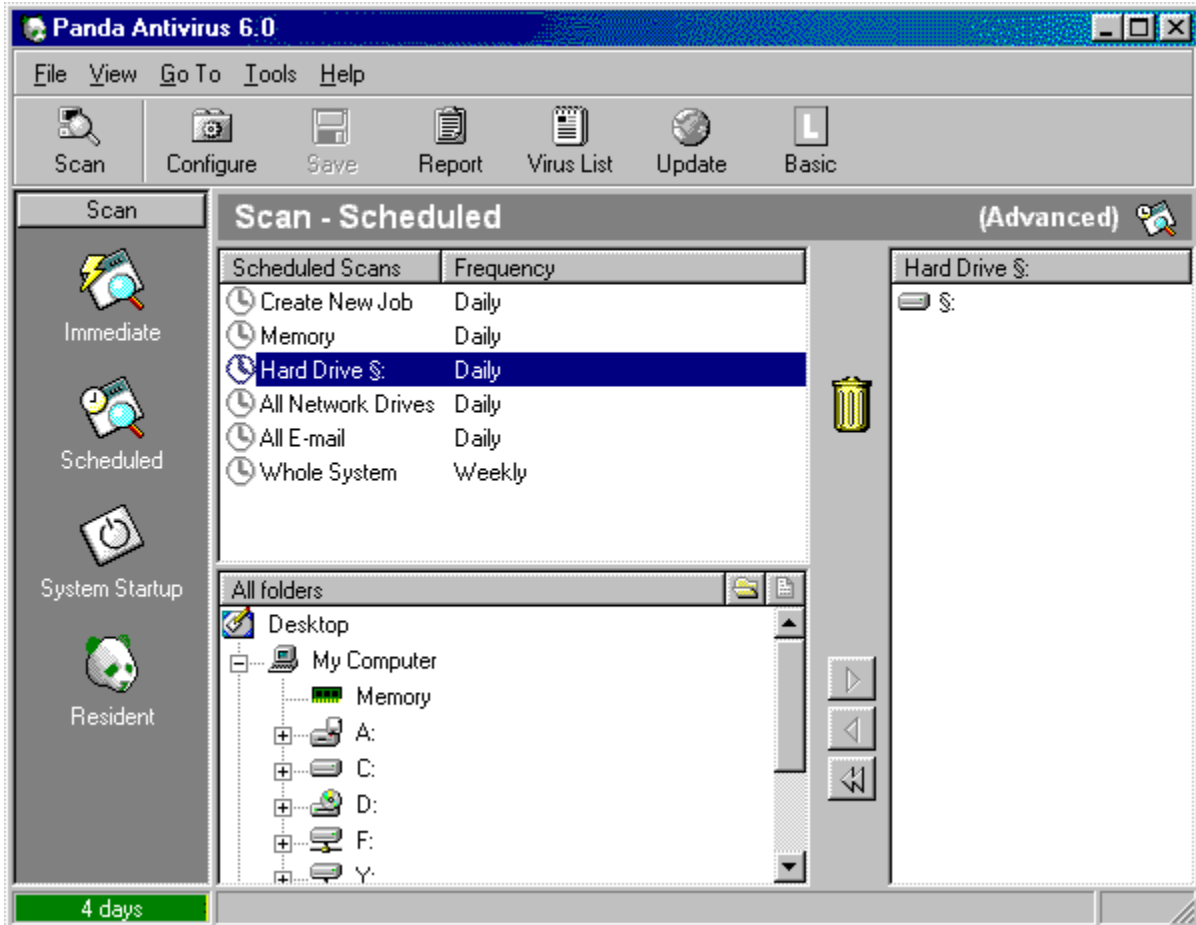
[Immediate scan options.](#)

[Predetermined immediate scans.](#)

[Scanning from the File Explorer.](#)

## Scheduled scan (Advanced)

Scheduled scans are immediate scans that are performed periodically in accordance with a determined schedule. Therefore, scheduled scans function in the same way as immediate scans. A series of predetermined scans offering maximum simplicity in program handling is also available for scheduled scans.



To set up a scheduled scan, just enable any of the predetermined scheduled scans provided. Any number of these scans may be enabled simultaneously, and in the advanced mode new scheduled scans may be created.

In the advanced mode, the following may be selected for each scheduled scan defined: areas to be scanned, scan options to be included, and the frequency with which the scans will be performed.

For more information on the above-mentioned aspects of the program, click on any of the following subjects:

[How to perform a scheduled scan.](#)

[Scan areas in a scheduled scan.](#)

[Scheduled scan options.](#)

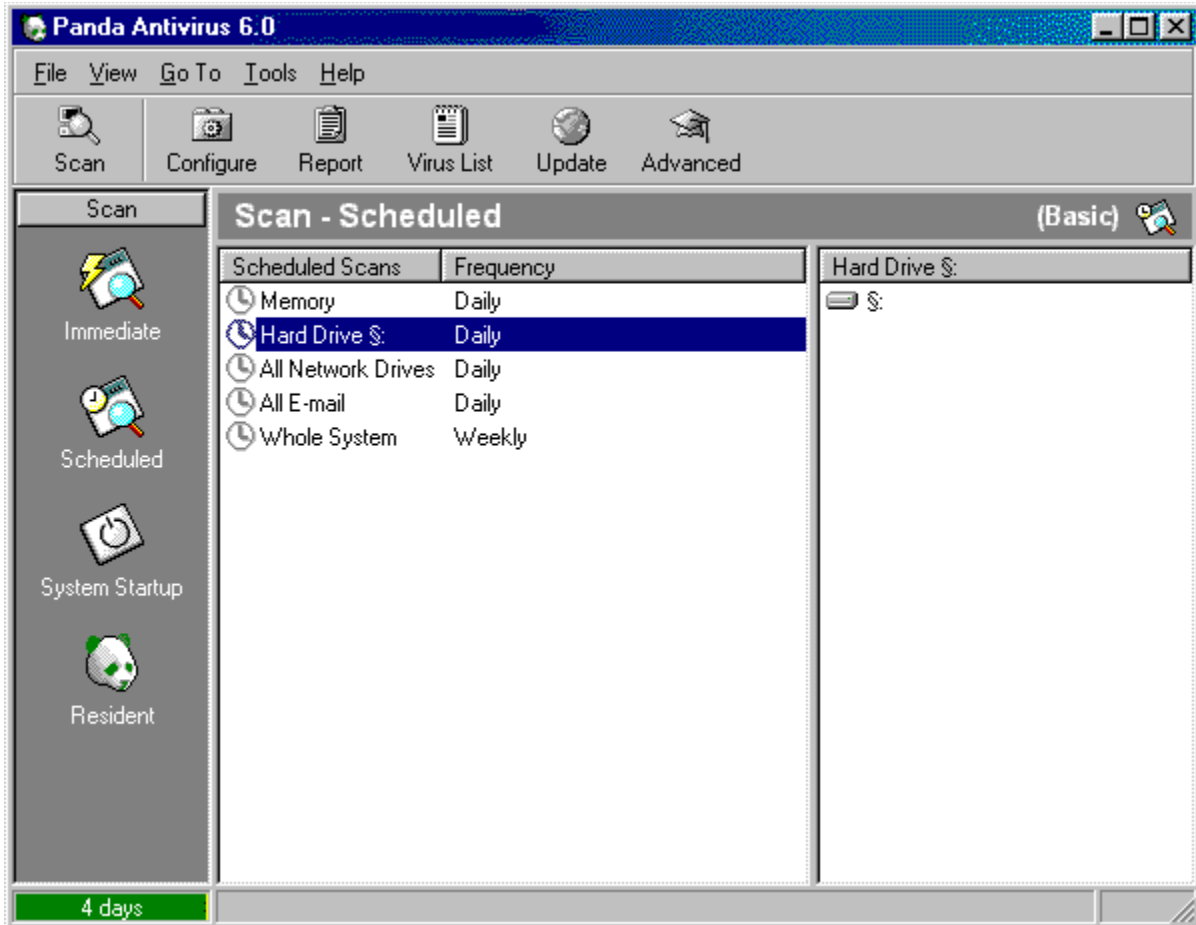
[Predetermined scans in a scheduled scan.](#)



Maintenance Wizard.

## Scheduled scan (Basic)

Scheduled scans are immediate scans which are carried out periodically in accordance with a determined schedule.



Therefore, scheduled scans work in the same way as immediate scans. A series of predetermined scans offering maximum simplicity in program handling is also available for scheduled scans.

To set up a scheduled scan, just enable any of the predetermined scheduled scans provided. You may activate as many as you wish.

For more information on the above-mentioned aspects, click on any of the following subjects.

[How to perform a scheduled scan.](#)

[Scan areas in a scheduled scan.](#)

[Scheduled scan options.](#)

[Predetermined scans in a scheduled scan.](#)

[Maintenance Wizard.](#)

## Computer startup scan (Advanced)

A startup scan is a scan that is carried out when the computer is booted. The advantage of this type of scan is that it allows the user to scan the most important files on the hard drive as well as in memory, and the boot sector before the computer finishes the booting process. In this way any possible virus is detected at the earliest possible occasion.



In the advanced mode, the user is able to configure the startup scan with two important options: the ability to add additional areas to be scanned at computer startup and the possibility to program the scan so that it is run at certain times.

Since the startup scan is run each time the computer is booted up, it is preferable not to scan very large areas as that will slow down the booting process.

Scheduling the computer startup scan permits you to configure the scan with greater precision. This way, maximum protection can be combined with complete efficiency by performing the scan only at certain times.

Click on any of the following options for more information on the subjects referred to above.

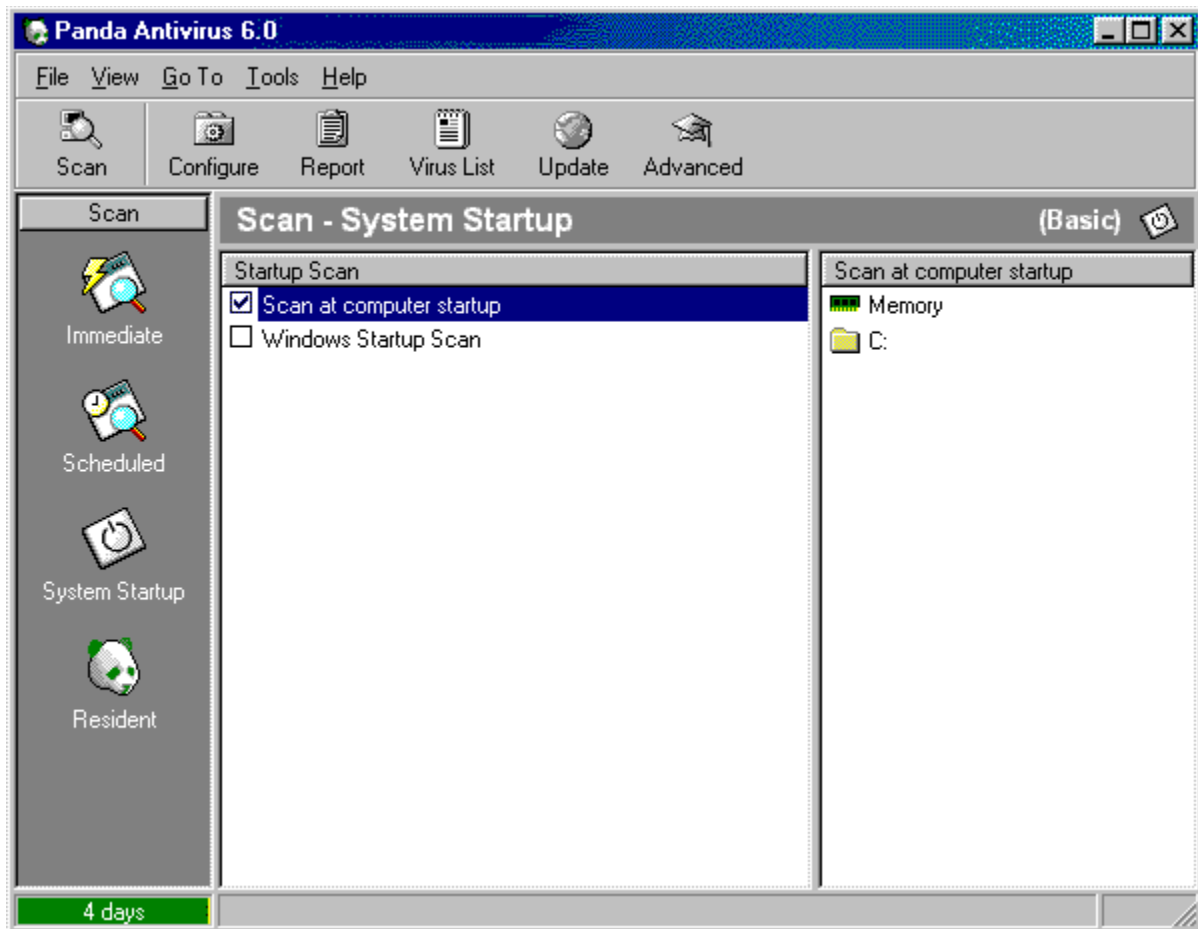
[How to enable the startup scan.](#)

[Startup scan options.](#)

[How to disable the startup scan.](#)

## Computer startup scan (Basic)

A startup scan is a scan that is carried out when the computer is booted. The advantage of this type of scan is that it allows the user to scan the most important files on the hard drive as well as in memory and the boot sector before the computer finishes the booting process. In this way any possible virus is detected at the earliest possible occasion.



The startup scan therefore provides protection right from the time the computer is booted.

In basic mode you can specify whether or not you want to run this scan at computer startup. Information is also available on the areas that will be scanned when this option is selected.

For more information on enabling or disabling the startup scan, the following subjects are available for consultation.

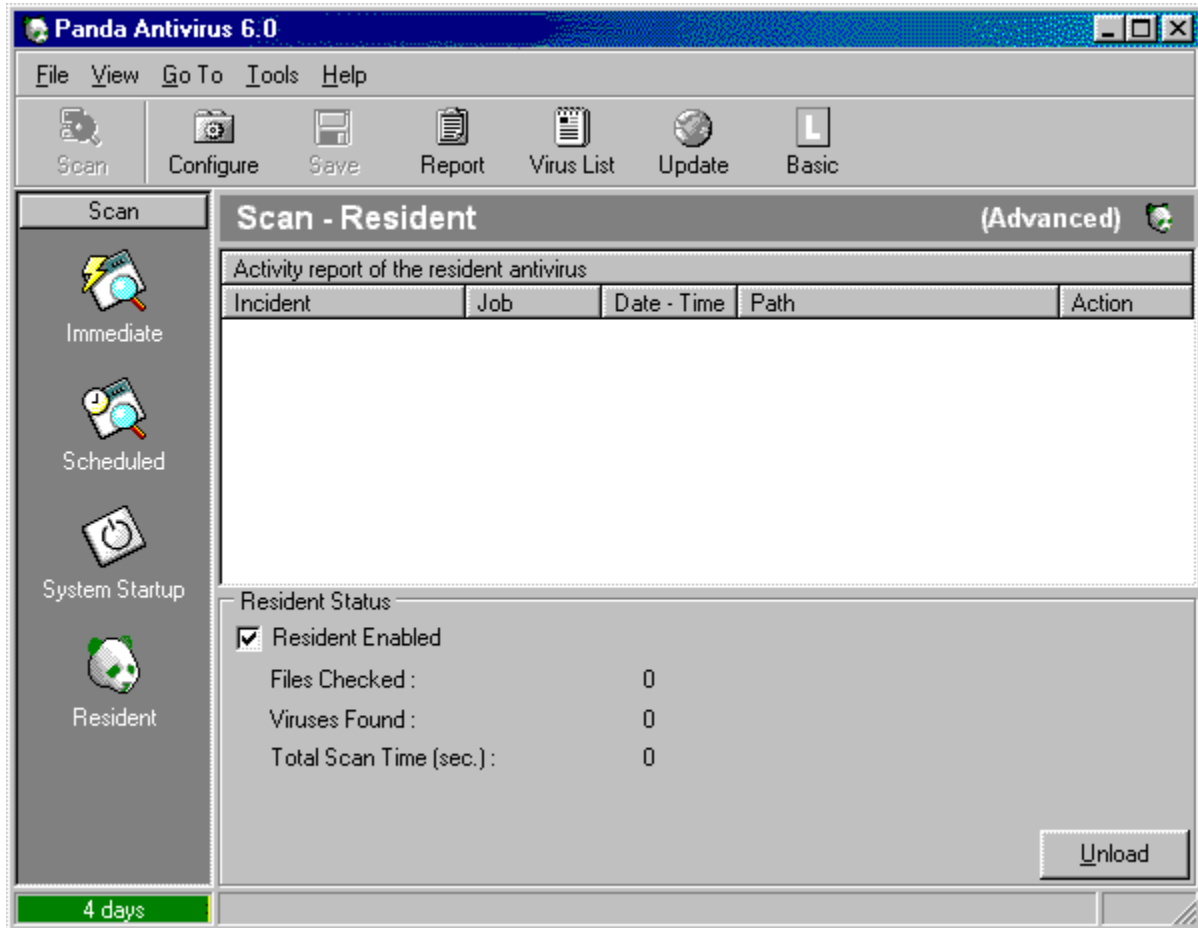
[How to enable the computer startup scan.](#)

[Computer startup scan options.](#)

[How to disable the computer startup scan.](#)

## Resident scan (Advanced)

The resident scan offers one of the most important functions of **Panda Antivirus**: that of providing permanent protection against viruses. The permanent protection starts working as soon as the operating system is started up. From that moment on, its job is to monitor all operations carried out on the computer that may be susceptible to virus infection.



This way, the resident scan ensures that your computer remains virus-free in a totally automatic way.

In the **resident scan** section, you can see an activity report of the resident scan, a summary of the number of files scanned and the number of viruses detected, as well as the possibility of enabling or disabling this type of scan.

In addition, in advanced mode you also have the possibility of configuring the resident program scan to indicate the options with which you want to perform the scan, and the option of unloading the resident scan.

For more information on these subjects, see the following sections.

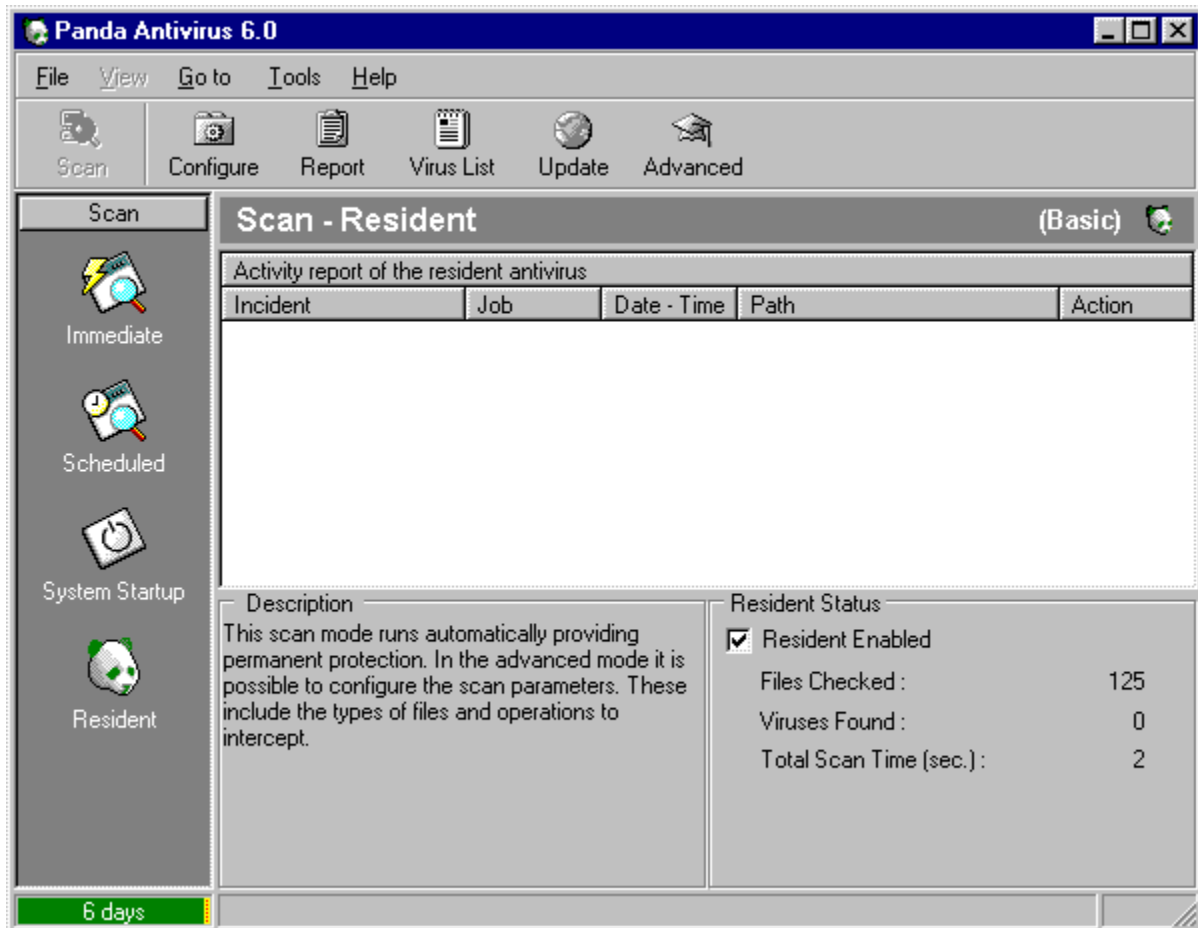
[How to enable the resident scan.](#)

[How to configure the resident scan.](#)

[How to disable the resident scan.](#)

## Resident scan (Basic)

The resident scan offers one of the most important functions of **Panda Antivirus**: that of providing permanent protection against viruses. The permanent protection starts working as soon as the operating system is started up. From that moment on, its job is to monitor all operations carried out on the computer that may be susceptible to virus infection.



This way, the resident scan ensures that your computer remains virus-free in a totally automatic way.

In the **resident scan** section you can see an activity report of this scan, as well as a brief summary of the files scanned and the possible viruses found. This scan can be easily enabled or disabled. For more information, please consult the following subjects.

[How to enable the resident scan.](#)

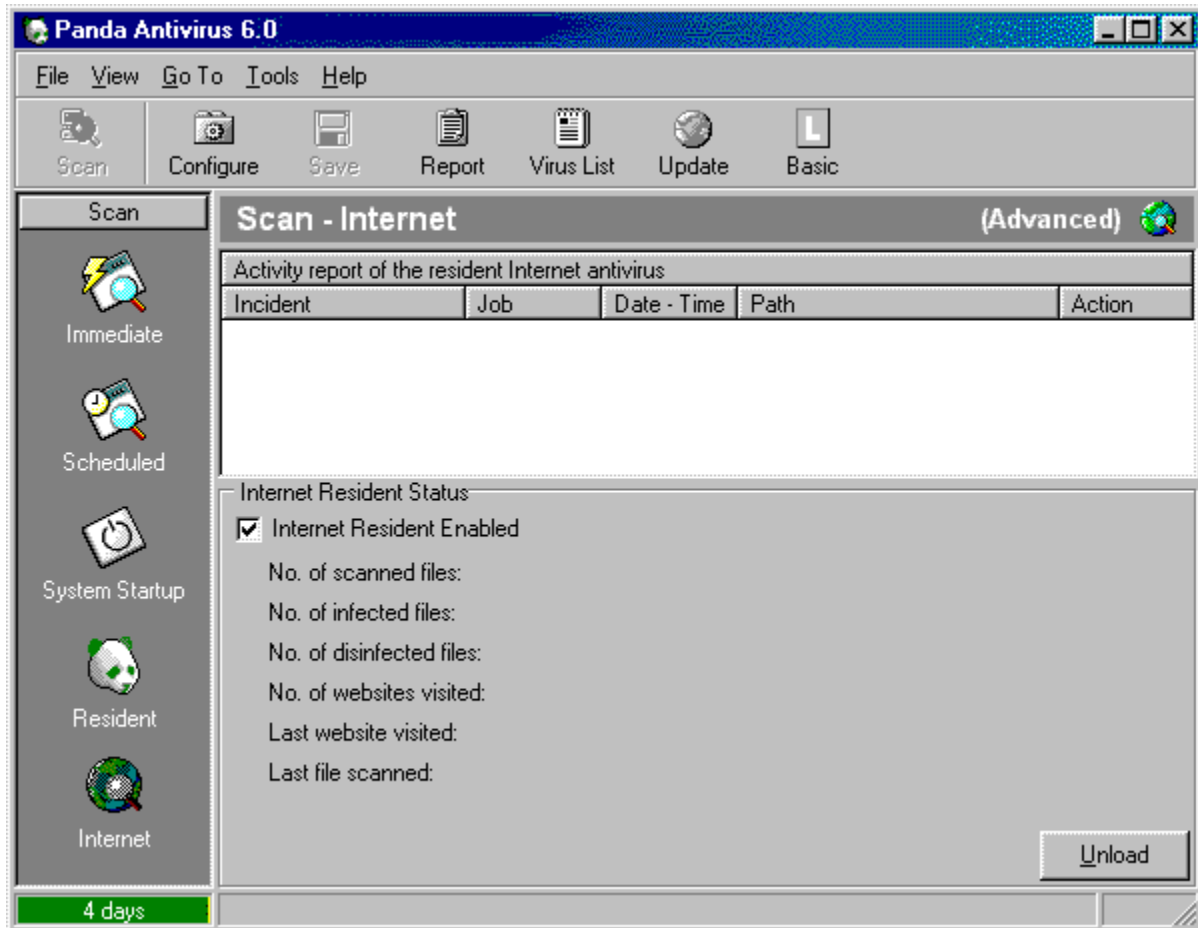
[Resident scan options.](#)

[How to disable the resident scan.](#)

## Internet scan (Advanced)

**Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

The Internet scan offers a singular function: permanent protection against viruses that can come in through the Internet. This permanent protection against Internet viruses starts working from the startup of the operating system. From that moment on, the scan is responsible for monitoring all Internet related operations carried out on the computer.



This way, by means of a totally automatic process, the Internet scan takes care of keeping your computer free from viruses originating from the Internet.

In the **Internet scan** section you can see an activity report of this scan, as well as a brief summary of the files scanned and the possible viruses found. This scan can be easily enabled or disabled.

In addition, in advanced mode you also have the possibility of configuring the Internet scan to indicate the options with which you want to perform the scan, and the option of unloading the Internet scan.


For more information on these subjects, see the following sections.

[How to enable the Internet scan.](#)



[How to configure the Internet scan.](#)

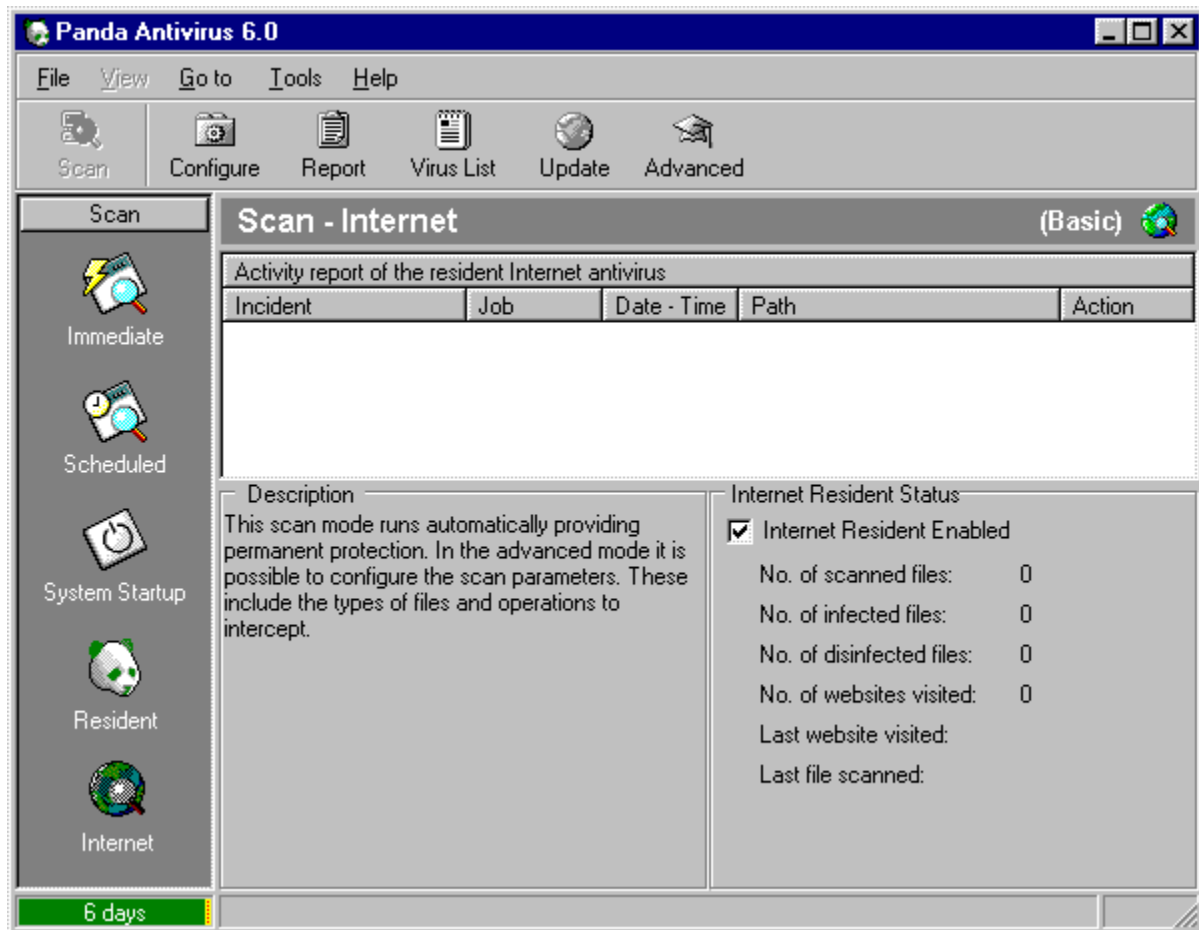
[How to disable the Internet scan.](#)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

## Internet scan (Basic)

**Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

The Internet scan offers a singular function: permanent protection against viruses that can come in through the Internet. This permanent protection against Internet viruses starts working from the startup of the operating system. From that moment on, the scan is responsible for monitoring all Internet related operations carried out on the computer.



This way, by means of a totally automatic process, the Internet scan takes care of keeping your computer free from viruses originating from the Internet.


In the **Internet scan** section you can see an activity report of this scan, as well as a brief summary of the files scanned and the possible viruses found. This scan can be easily enabled or disabled.

For more information on these subjects, please consult the following sections.

[How to enable the Internet scan.](#)

[Internet scan options.](#)

[How to disable the Internet scan.](#)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

## **Uninstalling Panda Antivirus 6.0**

To uninstall **Panda Antivirus 6.0**, go to **Control Panel**, select the **Add/Remove programs** option and choose **Panda Antivirus 6.0** from the list. Click on the **Add/Remove** button. The software will be uninstalled in a matter of moments. Uninstallation should never be attempted by deleting the version from the directory in which it was installed. Always follow the described procedure to uninstall the antivirus.

## **Boot viruses**

### **What is the boot sector?**

The boot sector is a very important area of a diskette or hard disk, as it contains information on the type of disk in question. In addition, this sector contains a program that is run when the computer is started up, and whose function is to determine if there is an operating system present and if there is, to execute it.

Therefore, when a computer is booted up, it first tries to load the program located in the boot sector, so that it executes the operating system. Once the operating system is run, the computer is said to be booted up and the user can begin to work with it.

### **What does a boot virus infect?**

A boot virus infects the program located in the boot sector. This way, the virus is loaded each time the computer is started up, whether from a diskette or the hard disk.

It is important to keep in mind that there are viruses that belong to several categories, and which are therefore capable of infecting both boot sectors and files.

### **How can a computer be infected by a boot virus?**

In order to become infected with a boot virus, you must start or try to start up the computer from an infected diskette. It is very important to note that, although a disk may NOT be a boot disk, it can still produce a boot virus infection since the attempt to boot up the computer alone is enough to produce the infection.

### **How does a boot virus “work”?**

When you boot or attempt to boot your computer from an infected diskette, what actually happens is that the virus is executed. The virus then reserves a space in the computer’s memory and “installs” itself there. Once in place, the virus runs the original boot-sector program. This way, everything appears as normal and the user remains unaware of the presence of the virus.

From this moment on, all access to a hard disk or diskette will be intercepted by the virus. It will check to see whether the disk in question is infected or not, and if it is not, the virus will infect it. This means that if the computer was booted up or an attempt was made to boot it using an infected diskette, as soon as the hard disk is accessed it will be infected. Therefore, all subsequent boots performed from the hard disk will execute the virus, thus infecting more diskettes and ensuring the propagation of the virus.

### **How to prevent a boot virus infection**

The best form of protection is to always have a properly updated antivirus installed. If a permanent protection system is in place and you scan every diskette prior to use, it will be very difficult for a boot virus to enter your computer.

There exists a very simple method of providing an additional guarantee against accidentally booting up a computer with a diskette unknowingly left in the disk drive. It consists of placing the boot sequence in the BIOS in such a way that the computer always attempts to boot first from the hard drive and then from the disk drive.

## File viruses

### What does a file virus infect?

As its name indicates, a file virus infects files contained on any physical support that is not write-protected. A file virus can therefore infect files on a diskette or an entire hard drive.

It is important to keep in mind that there are viruses that belong to several categories, and which are therefore capable of infecting both boot sectors and files.

### How can a computer be infected by a file virus?

A file virus is “contracted” by executing a previously infected file. Therefore, viruses normally only infect executable files. Macro viruses are an exception to this rule as they infect non-executable files such as documents.

### How does a file virus “work”?

The file virus works in a much wider variety of ways than a boot sector virus.

**Resident file viruses:** first of all, these viruses check that the necessary conditions are in place for them to “attack”. If that is the case, the virus will trigger its destructive action. If the conditions are not right, the virus reserves a space in the computer’s memory and continues the normal execution of the file so that its presence goes unnoticed. From that point on, all operations involving files will be intercepted by the virus, which will infect all files not previously infected.

**Direct-action file viruses:** these viruses also check that the necessary conditions exist for them to carry out their destructive action. If that is not the case, the virus will then infect new files. The virus generally infects files in the current directory and directories referenced by the PATH variable. Lastly, the virus continues with the normal execution of the file so that its presence remains undetected. As we have already seen, these viruses do not remain in memory but instead infect at the time they are executed.

**Companion viruses:** these viruses may be resident or direct-action. What differentiates them from the others is that the companion viruses take advantage of a peculiarity of the MS-DOS operating system. In this system, if two files are named identically but with different extensions, namely COM and EXE, the file with the COM extension will be executed first. For this reason, a companion virus does not infect an EXE file, but creates a COM file containing the virus (with the stealth attribute to conceal its presence). Each attempt to run the EXE file actually executes the COM file first. The virus is thus free to carry out its work, and only then is the EXE file executed so that the virus presence is not detected.

**Overwrite viruses:** in all the above-mentioned cases, the virus infects files without changing any of their original contents. It simply limits itself to adding data. Overwrite viruses, however, infect files by partially writing over the information contained within. The results are twofold: infected files can no longer function correctly and they cannot be disinfected since part of the original data has been lost.

### How to protect yourself against file viruses

First and foremost, it is very important to always have a permanent protection enabled. The function of a permanent protection is to monitor all operating system operations involving files in order to scan the ones to be used.

With a good permanent protection you can be sure of being protected against file viruses. In addition,

several measures are strongly recommended. They are as follows:

- Scan all incoming files prior to using them, regardless of how you receive them: via diskette, network, e-mail, Internet, etc ( [Differences between versions](#) ).
- Use only software that is original and from a reliable source.
- Scan the hard drive periodically to make sure that no virus has managed to infect it.

It is always absolutely essential to have an adequately updated antivirus installed.

## **Macro viruses**

### **What does a macro virus infect?**

Since a virus is nothing more than a program, for it to do anything it must be loaded by the operating system. This is the reason why viruses only infect executable files. No matter how much a virus infects a text file, as this file is not executable, the virus can never take over control of the computer and therefore cannot be activated.

Macro viruses have changed all that. The ever growing capacity of some applications such as word processors, spreadsheets, etc. have led their developers to incorporate an interesting function: macros. A macro is a sequence of instructions that the program in question (word processor or spreadsheet, for example) can interpret and execute.

Therefore, If virus code is introduced into one of these macros, this code will be executed by the program, thereby giving the virus access to the control of the computer.

What this means is that files handled by such programs (documents, spreadsheets, etc.) are capable of containing viruses and infecting other similar files.

An additional risk from this type of virus is that, given their character, they are run “inside” a program. This means that if the program in question is multiplatform (that is, it can be run on different operating systems), then the virus will also be multiplatform, thus increasing the range of files it can infect.

### **How does a macro virus infect?**

Macro viruses take advantage of a normal characteristic of programs in which macros are used. The MS-Word program presents a clear example of this. This program basically handles two file types: documents and templates. Templates are used to define generic documents and so simplify work with documents, as it is then not always necessary to start from the very beginning with similar documents.

In MS-Word, it is the templates that can contain macros. The problem lies in the fact that, by default, all documents are based on a template called NORMAL.DOT. This template contains a macro which is executed automatically as soon as it is opened.

Virus creators take advantage of this characteristic. By infecting the macro that is executed automatically, the propagation of the virus is ensured, as it will infect every document that is opened.

### **How does a macro virus work?**

As explained above, viral macros are executed and infect all documents opened. It is then the documents that take up the job of transmitting the “infection”.

One of the most dangerous characteristics of macro viruses is their great speed of propagation. For example, an infected document on a company network to which different people have access, can infect all of the company’s documents in an extremely short space of time.

As this type of file is exchanged very frequently by electronic mail, these viruses can spread to anywhere in the world at astonishing speeds.

It is important to note that, although they are not generally believed to be harmful, these viruses can



cause a lot of damage, as much as that caused by any boot or file virus.

### **How to protect yourself against macro viruses**

The best defense against a macro virus is to have a permanent protection system installed. This way, each time an attempt is made to open an infected document, the permanent protection warns the user and cancels the operation, eliminating all risk of infection.

Given the ease with which this type of virus can spread by e-mail, it is also recommended to install an antivirus capable of scanning incoming e-mail upon reception prior to opening the message ( [Differences between versions](#) ).

## Techniques used by viruses

To avoid detection by antiviruses, virus creators have developed a series of specialized and complex techniques. Antiviruses have had to adapt to these new techniques in order to detect these increasingly complex and perfected viruses.

The following are some of the most common techniques used by viruses:

**Stealth:** this is a technique used by resident file viruses. The infection of a file makes it necessary to modify the original file. It is therefore possible to see that a virus has manipulated the file. To avoid this, resident viruses can be made to monitor all operations designed to obtain virus information and intercept them. It then presents pre-infection data in the place of virus detection information. This way, the infection goes undetected.

**Tunneling:** viruses and antiviruses work using similar techniques. Viruses intercept all operating system operations involving files in order to infect all files accessed. On the other hand, permanent antivirus protection systems also intercept file operations in order to verify that the files being accessed are not infected. Using the tunneling technique, a virus is capable of finding the services intercepted by the permanent protection and use them directly without the permanent protection being aware of it.

**Self-encryption:** the main goal of a virus is to replicate. Antiviruses detect infections by searching for a particular string (also called signature) which is identical in all of the copies of a virus. To avoid detection by this virus search mechanism (the most common type), some viruses are able to encrypt themselves to change each time they infect a file. This way, the virus never replicates in exactly the same way, and the traditional detection method fails. However, the encryption routine used is always the same and can therefore be used by antiviruses to detect this type of virus.

**Polymorphism:** in this case, not only do viruses encrypt themselves in a different way for each infection, but they also change the encryption routine. This way, there are no identical copies of one virus as all of its parts differ. To detect this type of virus, decryption simulation techniques are used, which force the virus to “show itself”.

## Scanning from the File Explorer

**Panda Antivirus 6.0** becomes an integral part of the operating system on which it is installed. This makes the handling of the antivirus even easier.

To be precise, **Panda Antivirus 6.0** offers the possibility of starting a virus scan from the Windows File Explorer.

To start a scan from the File Explorer, proceed as follows:

1. Select the area or areas to be scanned. Any area in the File Explorer may be selected.
2. Right-click any part of the selection. In the contextual menu that appears, choose the **Scan using Panda Antivirus** option.
3. Once you have done this, the same scan progress window that appears when a **Panda Antivirus 6.0** immediate scan is run will appear on the screen.

Scanning from the File Explorer facilitates the use of the antivirus as it permits you to scan the desired areas without even having to open the antivirus.

## Maintenance Wizard

The **Maintenance Wizard** is a new feature available with Windows 98. With this feature periodical maintenance jobs are carried out automatically, freeing the user from having to carry out these jobs manually. The **Maintenance Wizard** is accessed by clicking on the *Start* button in Windows and then selecting the following options in this order: *Programs - Accessories - System Tools - Maintenance Wizard*.

With **Panda Antivirus 6.0**, scheduled scans can be created to accomplish the same objective. However, in order to offer maximum integration with the operating system, **Panda Antivirus 6.0** also offers the possibility of integration with the **Maintenance Wizard**.


The **Maintenance Wizard** starts by offering the possibility of executing all jobs active at that moment or configuring the defined jobs. If you choose to execute jobs, the one corresponding to **Panda Antivirus 6.0** will be executed first. Subsequently, all other active jobs defined in the **Maintenance Wizard** will be executed.

If you decide to configure the different **Maintenance Wizard** jobs, the option to configure the **Panda Antivirus 6.0** task will be presented first. The configuration options are as follows:

- **Search for viruses regularly:** this option permits you to enable the job.
- **Mornings - 00:00 to 03:00:** if this option is checked, the job will start at midnight every day.
- **Days - 12:00 to 15:00:** if this option is checked, the job will start at 12 noon every day.
- **Afternoons - 20:00 to 23:00:** if this option is checked, the job will start at 8 p.m. every day.
- **Customized - Uses the current configuration:** if this option is checked, the defined frequency will be used.
- **Reprogram:** by clicking on this button a window is displayed allowing you to specify the times for starting an automatic scan job.
- **No, do not search for viruses:** this option disables the job.

**Note:** some options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

## Options: e-mail (Internet - Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

This section includes the e-mail scan options.

### Scan

**Incoming messages:** indicates that all incoming e-mail (messages received) will be scanned.

**Outgoing messages:** indicates that all outgoing e-mail (messages sent) will be scanned.

**Compressed files:** indicates that all compressed files associated with a message will be scanned.

**Nested messages:** indicates that all messages found inside other messages will be scanned.

**Save results:** if this option is checked, all data relative to the scan in question will be logged in the report.

**All files:** if this option is selected, all files regardless of their extension will be scanned.


**Program files only:** if this option is selected, only files with EXE or COM extensions will be scanned.

**My extensions:** this option permits you to indicate that all files with extensions indicated on a list are to be scanned. This list can be accessed by means of the **Extensions** button.

### MIME

MIME is a file-coding format for sending files. Through this option you can instruct the antivirus to scan all MIME files associated with any message. For more flexibility, the types of MIME files to be scanned or not may be indicated. This also permits you to speed up the process as it avoids the scanning of large image or video files.

## Options: Internet (Internet - Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

Included in this section are the scan options for contents downloaded from the Internet.

### Scan

**Incoming data:** indicates that all incoming data from the Internet will be scanned.

**Outgoing data:** indicates that all outgoing data sent via Internet will be scanned.

**Compressed files:** indicates that all compressed files included in data sent or received via Internet will be scanned.

**Save results:** if this option is checked, all data relative to the scan in question will be logged in the report.

**All files:** if this option is selected, all files regardless of their extension will be scanned.

**Program files only:** if this option is selected, only files with EXE or COM extensions will be scanned.


**My extensions:** this option indicates that only the files with extensions indicated on a list are to be scanned. This list can be accessed using the **Extensions** button.

### Additional protection

**ActiveX Controls:** if this option is checked, all *ActiveX Controls* found in Web pages accessed will be scanned for viruses.

**Java Applets:** when this option is checked, all *Java Applets* found in Web pages visited will be scanned.

## Options: actions (Internet - Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

In this section you can specify the action to be taken by the antivirus when a virus is found. Depending on the action chosen, a series of options for configuring the selected option will appear on screen. The different possibilities are as follows:

### Show information on the virus

The antivirus displays a window with information on the virus at the time of its detection. However, no other action is taken.

### Ignore and continue scanning

This instructs the antivirus not to take any action when a virus is detected. Scanning will continue as usual.

### Disinfect automatically

Through this option you can instruct the antivirus to automatically disinfect all infected files found. This option may be configured, as there will be times when disinfection will not be possible. The configuration options are the following:

**Rename:** if the infected file cannot be disinfected, the antivirus will rename it by giving it a VIR extension.

**Delete:** when disinfection is not possible and this option is checked, the infected file will be deleted.

**Move:** with this option, a file which cannot be disinfected will be moved to another location. To complete this option, you can specify the destination infected files will be moved to.

**Move – path:** permits you to indicate the directory to which infected files will be copied.

**Move – e-mail address:** permits you to indicate the e-mail address to which an infected file is to be sent.

### Rename infected file

Through this option, all infected files found will be renamed.

### Delete infected files

By indicating this option, all infected files found will be deleted.

### Move infected file

If this option is checked, all infected files found will be moved.

**Move – path:** used to indicate the directory to which infected files will be copied.

**Move – e-mail address:** used to indicate the e-mail address to which an infected file is to be sent.

### Ask what action to take

This option indicates that the antivirus should ask what action is to be taken each time a virus is detected. This permits you to indicate different actions during a single scan. In order to make the configuration more flexible, the options that will be displayed when a virus is detected may also be chosen.

**Move:** refers to the **Move** action described above.

**Delete:** refers to the **Delete** action described above.


**Disinfect:** refers to the **Disinfect** action described above.

**Show information:** refers to the **Show information** action described above.

**Rename:** refers to the **Rename** action described above.



## Options: report (Internet - Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

General antivirus activity report options can be configured in this tab. The options that can be configured are the following:

### Level of detail

This option permits you to configure the level of detail included in the report.


**Simple:** at this level of detail all virus-related incidents are recorded. The report will also register all errors which could affect the level of security (for example, the inability to disinfect a virus because a diskette is write-protected).

**Medium:** besides the data included on the simple level, all jobs are registered at both their start and finish. In addition, at this level the report includes all changes made in the antivirus that affect its level of protection (disabling of resident protection, etc.).

### Report Size

Since the report is kept between different antivirus sessions, it may become excessively large if it is never deleted. The maximum size of the report may be checked through this option.

## Options: warnings (Internet - Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

Warnings are notifications the antivirus generates to indicate that it has detected a virus. Because of the importance of this type of notification, its configuration is flexible and powerful to ensure that the virus notification reaches the right person. The configuration options are as follows:

### In the network

This option instructs the antivirus to communicate the detection of a virus in one computer to other computers connected in a network with the first one

**Send message to workstation:** you can choose to send the virus detection message to a specific workstation in the network.

**Workstation:** enables you to indicate the workstation to which you wish to send the virus detection message.

**Message:** the message which will be displayed each time a virus is detected.

**Send message to domain:** you can choose to send the virus detection message to all the workstations belonging to the same domain.

**Domain:** allows you to indicate the domain to which you wish to send the virus detection message.

**Message:** the message that will be displayed each time a virus is detected.

**Server:** here is where you can enter the name of the server through which warning messages will be sent.

### Via e-mail

This option instructs the antivirus to use electronic mail to notify of the detection of a virus in a computer.

**Send message to address:** serves to indicate that you want an e-mail message to be sent each time a virus is detected.

**Address:** the e-mail address to which the virus detection messages will be sent.

**Message:** the message which will be shown each time a virus is detected.

### In messages containing viruses

This option makes it possible to notify the detection of a virus in an e-mail message. The notification can be addressed to the sender or to the rest of the recipients, or the warning message can be directly inserted into the infected message.

**Insert warning in the message:** inserts a virus warning message into the same e-mail message that contains the infected file.

**Warning in the infected message:** this is the text of the notification which will be inserted into the message.

**Send warning to sender:** sends an e-mail message to the sender advising them of the detection of the virus in the message they have sent.


**Warning for the sender:** the text of the notification which will be transmitted to the sender.

**Send warning to other recipients:** sends an e-mail message to each of the remaining recipients of the infected message, if there are additional recipients.

**Warning for other recipients:** the text of the warning message which will be sent to the other

recipients of an infected e-mail message.

## Options: ports (Internet - Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

This section permits you to indicate the ports through which communications will be made.

### Ports

**SMTP:** permits you to indicate the port for outgoing mail communication (messages sent).

**POP3:** permits you to indicate the port for incoming mail communication (messages received).

**FTP:** permits you to indicate the port through which file transfers will be made.

**HTTP:** permits you to indicate the port through which World Wide Web HTML pages will be received.

**NNTP:** permits you to indicate the port through which News will be received.

## **Virus entry points**

For several years now, the trend is towards more connectivity between computers. More and more each day, the computer is less of an isolated item with only one input point. Although this has been beneficial for users and PC's in general, it has also multiplied the number of available entry points for viruses.

For these reasons, it is important to know which are the entry points that a virus can use to access a computer, and understand how an antivirus must protect all entry points.

In addition to having multiplied the possible entry points for viruses, new types of viruses and new forms of transmitting these viruses have also appeared.

Last but not least, the importance of monitoring all outgoing items must be stressed. This is not usually taken into consideration, since it is considered that "there is no entry of viruses". It should not be forgotten, however, that most infections occur without malicious intentions. Thus, a user may send an infected file or diskette without realizing that he is also sending a virus. If every user carefully monitors their outgoing messages as well as the incoming ones, the rapid diffusion of viruses as occurs today could be avoided. A user who sends a virus could find him/herself in trouble under such circumstances.

### **Diskettes and CD-ROMs**

In the past, these were the only entry points to a PC (if it was not connected to a network). Viruses can be carried in files that are saved on either of these two mediums or can reside in the boot sector of a diskette. Given that both mediums can contain files susceptible of having a macro virus, the three most common types of viruses (boot, file and macro) may enter a computer by these mediums.

The **Panda Software** response to this entry point is two-fold. On one hand, it contains a resident program that offers permanent protection. This way, all access to any file contained on diskette or CD-ROM will trigger a permanent protection scan. And, on the other hand, it offers the possibility of carrying out an immediate scan (on-demand scan) of the diskette or CD-ROM inserted in the computer to verify that it is virus-free.

Therefore, with adequate permanent protection, an antivirus can efficiently resolve the danger that this entry point poses.

### **Network**

This entry point has been around for a long time, but has become very wide spread in the last few years. Today, in almost all stations where there are several computers, there is a network that connects them. The basic objective of a network is the sharing of information and thus the sharing of files. Since many types of files are shared on a network, this medium can be a point of transmission of file and macro viruses.

The **Panda Software** response to this entry point is also two-fold. On one hand, the key protection is still via a resident program offering permanent protection. It is the same one that monitors the access to files mentioned above. Each time that a user tries to send or receive an infected file on the network, the resident program will scan the file and display a warning. As in the previous case, this response also offers the possibility of carrying out an immediate scan (on-demand scan) to check any drive on the network. However, given the shared character of a network, new files can be added constantly making it difficult to ensure that a network station is virus-free.

As with the previous case, and even more importantly, having adequate permanent protection is the best guarantee of protection against viruses for this entry point.

### Internet

Although Internet has existed for years, it has only recently become a massive means of communication. It is more and more present every day in every field. The primary function of Internet is to facilitate, and in many cases make possible, the exchange of information. Thus, Internet also facilitates the exchange of files which, as already stated, are a “vehicle” for transmitting viruses. However, Internet presents a situation slightly more complicated than a network for the following reasons:

Internet provides different services, including for example: Web pages, electronic mail, etc. Each of these services uses a particular protocol (language); thus it is necessary to know these languages in order to correctly perform virus scans of this entry point. For example, an e-mail message may contain an attached file that is infected. Since the file is not in its normal format, a conventional antivirus cannot detect it. For this reason, an antivirus must be specially developed to understand the format used to receive e-mail messages in order to detect the virus.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

The following are entry points of viruses transmitted via Internet:

- **Electronic mail:** viruses may be hidden in files attached to e-mail messages. They can never be found in the e-mail message itself. In other words, an e-mail message that does not have an attachment or embedded object cannot contain a virus. It is important to note that two protocols are used for electronic mail on the Internet. One is **POP3**, used for incoming mail (messages received) and the other is **SMTP**, used for outgoing mail (messages sent).
- **News (NNTP):** through this service, you can access newsgroups being discussed or that are placed in certain servers for consultation and subsequent discussion. You can also subscribe in order to periodically receive e-mails containing the latest news, although these may be infected. You can scan all the news received from **Exchange/Outlook** and **Outlook Express**.
- **Downloading files (FTP):** files can be downloaded from the Internet using this service. These files may be virus-infected.
- **Web pages (HTTP):** principally, Web pages (HTML pages) are only text and graphics that do not present any virus threats. More and more, however, Web pages contain other components such as *Java applets* or *ActiveX controls*. These types of components can be virus-infected and affect a computer for the sole reason of having accessed a Web page.

To correct such a potentially serious problem, **Panda Software** offers a series of solutions. These are the following:

- **Electronic mail:** A *special* resident program scans all outgoing messages (SMTP protocol) and incoming messages (POP3 protocol) for viruses. Thus, an e-mail message containing a virus-infected file cannot be sent or received. Other antiviruses scan only incoming mail. This is very dangerous since it is possible to send a virus, with all the consequences this can cause the sender. Electronic mail antivirus protection provided by **Panda Antivirus 6.0** is independent from the e-mail program being used, and operates with all types of such programs.

There is an added danger with electronic mail. All outgoing and incoming messages are stored in a message database. The message database format is not recognized by conventional antiviruses, so a normal antivirus will not be able to scan all outgoing and incoming messages for

viruses prior to the installation of the program. For some reason, they also cannot scan those messages that were not scanned at the time they were received. To solve this problem, **Panda Antivirus 6.0** is able to recognize the format of the message database of **Microsoft Outlook Express** (including Internet Explorer 4), **Microsoft Exchange** and **Microsoft Outlook** programs. This way, **Panda Antivirus 6.0** allows the user to scan any message, any time he/she wishes from a message database, thus offering the guarantee of virus-free electronic mail.

- **News (NNTP):** all possibly-infected contents (related documents) located in a server that provides a news service will be scanned by the *special* resident protector responsible for monitoring the connection with that server. This guarantees the safe consultation of information regardless of the news program used.
- **Downloading files (FTP):** a *special* resident program, in charge of monitoring the Internet connection, will scan all FTP downloaded files. This prevents the downloading of an infected file. All files previously downloaded could be scanned with an antivirus file, thus avoiding the problem mentioned above with e-mail messages. The virus protection is independent from the FTP program being used.
- **Web pages (HTTP):** All Web page or HTML page contents (*Java applets, ActiveX, etc.*) that may be virus-infected will be scanned by a *special* resident program in charge of monitoring the Internet connection. This guarantees secure Website browsal, regardless of the search engine used while visiting the Websites.

In summary, it can be said that **Panda Antivirus 6.0** offers the best protection against possible viruses coming in through the Internet. On one hand, all the data is scanned as it enters the computer, to verify that no virus is being carried with the message. On the other hand, it is possible to scan all electronic mail handled by the user, that is all incoming and outgoing messages, guaranteeing a virus-free connection to the Internet.

## Why not all antiviruses are the same

When all is said and done, all antiviruses are frequently considered to be the same. Perhaps the most generalized idea is that the only difference between one antivirus and another is the number of viruses that each is capable of detecting.

However, this is not the case. The real difference between antiviruses is the protection that each one is able to provide. An antivirus must be able to provide the following:

- **Protection of all entry points:** the fundamental characteristic of an antivirus is the ability to protect all points through which a virus may infect a computer.
- **Constant updates:** for its own sake, an antivirus must be updated constantly since new viruses appear every day. Without a constant update service, an antivirus becomes obsolete and is no longer useful.
- **Technical Support:** unfortunately, the situations in which viruses are detected are usually the source of conflicts. At times, the virus is detected too late if the user does not have antivirus protection or has not kept it updated. Other times, the virus is detected on time, but the fear of the damage a virus can do causes the user great consternation. Finally, the third point for solving virus problems is having efficient technical support capable of responding to all virus-related problems. This support must be easily accessible around-the-clock in order to accomplish its goal: to help all those who, unfortunately, have encountered a virus.

### Protection of all entry points

On this point, **Panda Antivirus 6.0** offers the following:

- **Permanent scan** by means of a resident program of all files which are accessed by the computer. This is an automatic and simple way to avoid the entry of infected files into the computer. It also avoids all operations using infected files, which for one reason or another, are already in the computer. This permanent scan also protects the computer against all possible viruses transmitted through a network.
- **On-demand scan** (at any time) of any area of the computer. Using this scan, any area of the computer may be scanned for viruses. It may seem unnecessary if permanent protection is also provided, but that is not the case. If, for whatever reason, the computer is infected, there must be a simple way to completely disinfect the system. The permanent protection program does not allow this, given that it would have to try to access every infected file. The on-demand scan also allows the scanning of all network drives.
- **Permanent scan** ( [Differences between versions](#) ) of the contents coming in via Internet (in SMTP, POP3, HTTP, FTP and NNTP protocols). This means that all incoming and outgoing e-mail messages will be automatically scanned regardless of the e-mail program being used. All files downloaded using HTTP and FTP protocols, as well as *Java applets* and *ActiveX controls* that may arrive with the HTTP protocol will also be scanned. Also in these cases, the scan will be independent of the search engine or FTP program being used. Lastly, it should be mentioned that all data sent to or received from newsgroups will be scanned in search of viruses.
- **Permanent scan** ( [Differences between versions](#) ) of all e-mail messages received through the **Microsoft Outlook** and **Microsoft Exchange** programs. This feature is presented apart from the permanent scan of electronic mail received from Internet, due to the fact that these two programs can receive e-mail from an Exchange server using different protocols. However, **Panda Antivirus 6.0** is capable of carrying out permanent scans of all incoming or outgoing messages in these programs, regardless of the protocol.
- **On-demand scan** of any of the folders (where messages are stored) in the **Microsoft Outlook Express**, **Microsoft Exchange** and **Microsoft Outlook** programs. This allows you to scan all



messages received or sent, even if they are prior to the installation of the antivirus.

### **Constant update**

On this point, **Panda Antivirus 6.0** offers the following:

- **24-hour S.O.S. Virus service:** with this service, **Panda Software** promises to provide a solution within 24 hours to any new virus not detected by even our latest antivirus.
- **Daily updates via Internet:** everyday, an updated version of our file of virus-detected identifiers is available on Internet. This file is updated with new viruses every day.
- **A complete updated version of the antivirus via Internet:** a complete version of the antivirus updated monthly is also available via Internet.
- **Updates with home delivery:** a completely updated version of the antivirus is sent to your home regularly, depending on the service chosen.

### **Technical support**

One of the fundamental services offered by **Panda Software** is the technical support. It features the following characteristics:

- Available 24 hours a day, 365 days a year. The user can call at any time and have a highly qualified technician on the other end of the line ready to solve any virus-related problem.
- The technical support service can be contacted by telephone, fax, e-mail, regular mail, or through our Web page.

## Where to find viruses

It is important to know where a virus can be "hidden". The first thing that must be clear is that in order to carry out its work of infecting, or totally or partially damaging computer data, a virus must be executed. Thus, viruses will only insert themselves in areas where they can be executed:

- **Executable files:** viruses insert themselves in executable files in order to be able to control the computer.
- **Documents of any program able to manage macros:** traditionally, non-executable files could not contain viruses (or at least there wasn't a reason for them to contain viruses), since a virus in a non-executable file cannot do any work. However, due to the latest technical advances, certain programs such as the Microsoft Office suite have endowed non-executable files such as documents or spreadsheets with *macros*. A macro is a combination of instructions that can be executed by a certain program. In other words, a Microsoft Word document can contain a combination of instructions that Word itself will run. This has widened the possibility for viruses to infect files, which, despite being non-executable, contain macros.
- **Files attached to e-mail messages:** any type of file (executable or not) may be attached to an e-mail message. All e-mail messages, together with their corresponding attached files, are usually stored in one file. Since the structure of this file is not standard, nor does it have to be known, an antivirus may see such a message base as just another file and not find any viruses contained in it.
- **Boot sector:** the boot sector is an area in a diskette or hard disk containing important information on the type of disk. The boot sector also stores a program that is run when the disk in question is used for booting. Given that the program stored in the boot sector is able to run itself, it is also susceptible to being infected by a virus. You must bear in mind that a boot sector virus is also executed if an attempt to boot the computer from a diskette is made, whether or not it is a boot disk.
- **Java Applets:** before, Internet pages, or Websites (HTML pages), could only contain text or graphics. This has changed with the need to be able to create more complicated Web pages. Today, Web pages can also contain small programs called *Java applets*. When a browser downloads a Web page with some of these small programs, it makes sure to execute them. It works in a similar way as a macro document. For this reason, *Java applets* are also susceptible to being infected by viruses.
- **ActiveX Controls:** ActiveX controls have the same function as *Java applets*. For this reason and given that they are also executable, they are susceptible to being infected by viruses.

**Panda Antivirus 6.0** is capable of scanning for viruses in any of the areas mentioned above, thus offering the highest levels of protection.

### **If disinfection is not possible...**

There could be cases where, despite having selected the disinfection option, a particular virus cannot be removed.

Of these, the most frequent is the detection of a file virus found in a compressed file. In order to disinfect this virus, the following steps are necessary:

1. Decompress the compressed file in an empty directory. There is no risk in doing this, even if one of the files in the compressed file is infected.
2. Scan the directory containing the decompressed files, checking the disinfection option.
3. With the first two steps, the infected file will be disinfected. If desired, the files may be compressed again to return them to their original state but without any virus-infected files.

## Differences between versions

This Help file applies to 2 different products: **Panda Antivirus 6.0 DeLuxe and Panda Antivirus 6.0 Platinum for Windows 95/98/NT**

Depending on the product installed on the user's computer, some of the listed features may not apply to the application being used.

In addition, some features of both products apply only to Windows 98 and therefore will only be available for that operating system.

The features shown in the table below are those that are only available with certain configurations and depending on the product purchased. The other features without comments are available in both products with whatever configurations they may have.

	Windows 95	Windows 95 + IE4	Windows 98
<b>PAV 6.0 DeLuxe W95/W98</b>		<ul style="list-style-type: none"> <li>Information channels.</li> <li>Active desktop items.</li> <li>Help in HTML format.</li> <li>Icon for running the antivirus is included in the Quick Launch access bar.</li> </ul>	
<b>PAV 6.0 Platinum W95/W98</b>	<ul style="list-style-type: none"> <li>Internet resident scan (HTTP, FTP, POP3, SMTP and NNTP).</li> <li>Real-time scan of all messages received using Microsoft Exchange or Microsoft Outlook.</li> <li>On-demand scans of all Microsoft Exchange, Microsoft Outlook or Microsoft Outlook Express folders.</li> <li>Automatic configuration (Wise Setup).</li> </ul>	<ul style="list-style-type: none"> <li>Internet resident scan (HTTP, FTP, POP3, SMTP and NNTP).</li> <li>Real-time scan of all messages received using Microsoft Exchange or Microsoft Outlook.</li> <li>On-demand scans of all Microsoft Exchange, Microsoft Outlook or Microsoft Outlook Express folders.</li> <li>Automatic configuration (Wise Setup).</li> <li>Information channels.</li> <li>Active desktop items.</li> <li>Help in HTML format.</li> <li>Icon for running the antivirus is included in the Quick Launch access bar.</li> </ul>	<ul style="list-style-type: none"> <li>Internet resident scan (HTTP, FTP, POP3, SMTP and NNTP).</li> <li>Real-time scan of all messages received using Microsoft Exchange or Microsoft Outlook.</li> <li>On-demand scans of all Microsoft Exchange, Microsoft Outlook or Microsoft Outlook Express folders.</li> <li>Automatic configuration (Wise Setup).</li> <li>Information channels.</li> <li>Active desktop items.</li> <li>Help in HTML format.</li> <li>Icon for running the antivirus is included in the Quick Launch access bar.</li> <li>Maintenance Wizard.</li> </ul>

## Antivirus configuration

The antivirus configuration section allows the user to centralize the configuration of its different operation options.

Using this section, a combination of general options, update options and e-mail profiles can be configured. In addition, the sounds presented by the antivirus and the access password for the program's options can also be configured.

**Note:** some options are only available depending on the product purchased and the user's operating system configuration. For more information, see [Differences between versions](#)

For more information on any aspect of the antivirus configuration, consult the following topics:

[Mail Profile](#)


[General](#)

[Update](#)

[Sounds](#)

[Password](#)

## Configuration: mail profile

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

**Panda Antivirus 6.0** is capable of displaying folders that contain e-mail messages in the **Microsoft Exchange** and **Microsoft Outlook** programs, allowing them to be selected for scanning. Since both programs allow several profiles to be defined, each one with its own features, a section has been set up to configure which profile will be chosen by the antivirus.

### Default profile

This option indicates that a default profile in accordance with the e-mail program (**Microsoft Exchange** or **Microsoft Outlook**) will be opened.

### Ask upon entering

This option causes the antivirus to ask for the profile that it must open by offering a list of all defined profiles in the e-mail program (**Microsoft Exchange** or **Microsoft Outlook**).

### Specified profile

Thanks to this option, a specific profile can be indicated, so that the antivirus can always work with it.

**Profile:** if the user has chosen to always work with a specific profile, that profile can be indicated here.


**Note:** this section is only available depending on the product purchased. For more information, see [Differences between versions](#)

## **Configuration: general**

The section on general configuration allows the user to indicate which items among those listed below he/she wishes to present in the selection tree of items to be scanned. This option will affect those parts of the program having present possible scan areas.

### **Electronic mail folders**

Indicates whether or not e-mail folders (**Microsoft Exchange, Microsoft Outlook and/or Microsoft Outlook Express**) should be shown.

 **Note:** this option is only available depending on the product purchased. For more information see [Differences between versions](#)

### **Network drives**

Indicates whether or not network drives should be displayed.

### **CD-ROM drives**

Indicates if CD-ROM drives should be displayed or hidden.

### **Report size**

Since the report is kept in between different antivirus sessions, if it is never deleted, it may become excessively large after a certain amount of time. With this option, the user may control the size of the report so that it does not exceed a determined size.

**Limit the report size to:** allows the user to indicate the report size in kilobytes. When the indicated size is reached, the oldest incidents will be deleted in order to save the newer ones.

**Note:** some options are only available according to the specific product purchased and the configuration of your operating system. For more information, see [Differences between versions](#)

## **Configuration: updates**

For more information, consult any of the following sections:

[Different types of updates.](#)

[Updating the virus signature file \(Intelligent Updates\).](#)

[Upgrading the antivirus \(Intelligent Upgrades\).](#)



## **Configuration: sounds**

The purpose of the sound section is to allow the user to choose which antivirus incidents will be accompanied by sound schemes. A sound can be selected for each incident, which will be heard when the corresponding incident occurs. In addition, and to complete the functionality of this section, a button allows the user to hear each sound so that he can select the ones he desires.

The options are:

**List of incidents:** the incidents shown in this list can be associated to a sound. This way, with each particular incident, the indicated sound will be heard. If the user wishes to associate a particular incident to a sound, the incident must then be checked. If he/she does not wish to make the association, the incident must be left unchecked.

**Name:** this is the name of the sound file that is to be associated to a particular incident.

**Browse:** this button displays the standard file selection window to facilitate the choice of the sound file to be associated to a particular incident.

**Test:** press this button to preview the chosen sound. This avoids having to provoke the incident associated to it in order to test the action.

## **Configuration: password**

This section allows the user to protect the access to specific sections of the antivirus by means of a password. This guarantees that those sections will not be altered by anyone without permission.

### **Items to be protected**

Shows the different sections of the antivirus that will be protected by a particular password.

**Resident:** by protecting this section, unauthorized changes to the configuration or even the disabling of the resident protection can be avoided.

**Scheduled:** with the protection offered by this section, unauthorized manipulation of scheduled scans can be avoided.

**Startup:** startup scan protection avoids the making of any changes to the configuration or the disabling of this scan.

**Updates:** access to this part of the antivirus can be blocked so that nobody alters necessary data inputs for updating.

**General options:** by preventing access to general options, unauthorized access to the general antivirus configuration and thus changing of the password can be prevented.

**Internet:** by protecting this section, unauthorized changing of the configuration or even the disabling of the permanent protection against data received from Internet can be prevented ([Differences between versions](#)).

### **Password**

Allows the user to type in a password in order to protect those items that have been selected. A previously indicated password can also be changed.

**Password:** a password chosen to protect the access to certain parts of the antivirus must be inserted here.

**Change password:** to change a password already introduced, select this option.

## Windows Startup Scan (Basic)

A Windows startup scan is run during the booting of the Windows operating system. Thanks to this type of scan, it is possible to run a scan of any area of the computer as the first job after loading the operating system.



In basic mode, the user can indicate whether or not he wishes to run this Windows startup scan. Information is also available about the areas to be scanned with this option.

For more information on enabling or disabling the Windows startup scan, consult the following subjects:

[How to enable the Windows startup scan.](#)

[Windows startup scan options.](#)

[How to disable the Windows startup scan.](#)

## Windows Startup Scan (Advanced)

A Windows startup scan is a scan run during the booting of the Windows operating system. Thanks to this type of scan, it is possible to run a scan of any area of the computer as the first job after loading the operating system.



In the advanced mode, the Windows startup scan can be configured with two interesting options: the ability to add additional areas to be scanned when the computer starts, and the possibility to schedule the scan to be run only on determined occasions.

The scheduling of the Windows startup scan allows you to indicate if the mentioned scan should be run only when Windows starts after rebooting the computer or, on the contrary, if it should be run each time that Windows is started up (that is, at the beginning of each Windows session).

Since the Windows startup scan is run each time that the operating system is booted up, it is not convenient to scan very large areas.

More information is available on the above-mentioned subjects. Just click on any of the options below:

[How to enable the Windows startup scan.](#)

[Windows startup scan options.](#)

[How to disable the Windows startup scan.](#)

## Options: scan (Computer startup - Advanced)

There are several options grouped under this section for a maximum ease of use.

### Scan

**Compressed files:** if this option is checked, all compressed files found will be scanned. These files will only be scanned if this option is checked. Selecting all the extensions is not enough.

**All files:** by selecting this option, all files will be scanned regardless of their extension, except for compressed files, system files, **Microsoft Outlook Express**, **Microsoft Exchange** and **Microsoft Outlook** e-mail files ( [Differences between versions](#) ). These must be checked separately in order for them to be scanned.

**Program files only:** if this option is selected, only files with EXE or COM extensions will be scanned.

### Additional

**Enable sounds:** if this option is checked, the sounds configured in the corresponding section of the general configuration will be enabled.

**Save report:** if this option is checked, all data concerning the scan in question will be saved in the report.

### Heuristic

**Enable:** if this option is checked, an additional virus scan will be run on each file. This second scan will be run based on techniques designed for detecting unknown viruses

**Configure:** A heuristic scan can be configured using this button. The user can choose between three different sensitivity levels and which suspicious situations will give rise to a warning from the antivirus.

### **Options: actions (Computer startup - Advanced)**

In this section, the user can indicate which action the antivirus should carry out when a virus is detected. The different possibilities are:

#### **Ignore and continue scanning**

The antivirus does not carry out any action when a virus is detected. Normal scanning is continued.

#### **Disinfect automatically**

Using this option, the user can have the antivirus automatically disinfect all files found containing viruses.

#### **Suspend scanning and report in the case of another incident**

If this option is checked, scanning will be momentarily stopped if any unexpected problem occurs during the process. The incident will be immediately reported. Once the warning is accepted, scanning will continue normally.

### **Options: scheduler (Computer startup - Advanced)**

A startup scan may be scheduled in this section. In this case, this scan will be run only under certain circumstances. The available options are:

- **Always:** the startup scan will be run each time the computer is started up.
- **Every x startups:** the startup scan will be run in a regular manner after the indicated number of startups.
- **Every x days:** the startup scan will be run periodically as every x days as indicated.
- **Every “day of the week”:** the startup scan will be run only on the indicated day of the week.

#### **Enabled**

With this option, the scheduled scan can be enabled or disabled.

## Windows Startup Scan Options (Advanced)

The Windows startup scan options allow the user to configure how the scan will be performed. To access these options, click on the **Configuration** button in the **Startup scan** section, taking into consideration the startup scan option selected (computer or Windows startup). All scan options are grouped in the same window, though separated by different tabs for a maximum ease of use.

For more information select the appropriate section:

[Scan.](#)

[Actions.](#)

[Exclusions.](#)

[Report.](#)

[Warnings.](#)

[Scheduler.](#)



## Options: configuration in basic mode

In the basic mode, the different protection strategies (immediate, scheduled, startup, resident and Internet scans) all have the same window configuration. This window includes the main scan options, which are the following:

### Scan

**Compressed files:** if this option is checked, all compressed files found will be scanned. These files will only be scanned if this option is checked. Selecting all the extensions is not enough.

**Electronic mail files:** if this option is checked, the antivirus will scan all e-mail files regardless of the indication in the **Extensions** section. The antivirus is capable of scanning **MS-Exchange/Outlook** (PST files) e-mail files. These files will only be scanned if this option is checked. Selecting all the extensions is not enough.

**Note:** some options are only available with certain products and operating system configuration. For more information, see [Differences between versions](#)

**Save results:** if this option is checked, the information concerning the scan in question will be logged in the report.

**All files:** by selecting this option, all files will be scanned regardless of their extensions. The exceptions are compressed files, system files, **Microsoft Outlook Express**, **Microsoft Exchange** and **Microsoft Outlook** e-mail files, which must be marked separately in order for them to be scanned.

**Program files only:** if this option is selected, only files with EXE or COM extensions will be scanned.

### Action


**Show information:** this causes the antivirus to display a window with information on the virus when it is detected. No other action will be taken.

**Ignore and continue scan:** the antivirus takes no action when a virus is detected. Scanning will then continue normally.

**Move the infected file:** if this option is indicated, all infected files found will be moved.

**Ask what action to take:** with this option, the antivirus can be advised to ask what action to take each time a virus is found. The user can indicate different actions during the same scan.

## Automatic configuration of the antivirus (Wise Setup)


 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

**Wise Setup** is a tool specifically designed to facilitate the configuration of **Panda Antivirus 6.0**. Through an exhaustive analysis of the hardware and software installed on the computer and a simple questionnaire, **Wise Setup** optimally configures **Panda Antivirus 6.0** in order to achieve the best possible results.

The different steps that make up **Wise Setup** are as follows:

1. A window welcomes the user to **Wise Setup** and explains its functioning.
2. The software and hardware installed on the computer is analyzed.
3. A summary of the detected software and hardware is subsequently displayed.
4. By means of a simple questionnaire, you are asked a series of questions concerning the type of work carried out on the computer. These are based on the data obtained from the hardware and software study carried out previously.
5. Lastly, a summary report displays the configuration options offered by **Wise Setup**. If you proceed with the installation, these will be used as the configuration options for **Panda Antivirus**.

## What is the integrated MS-Exchange/Outlook scan?

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

**Panda Antivirus 6.0** includes a module especially designed to be completely integrated with **MS-Exchange/Outlook**. Therefore, all antivirus management for **MS-Exchange/Outlook** can be done using this e-mail program.

The antivirus integration in **MS-Exchange/Outlook** offers various advantages. Two of the most important are:

- **Scanning of all messages:** the Internet scan checks all e-mail messages coming in from Internet. It does not, however, scan those messages that **MS Exchange/Outlook** receives from an **MS-Exchange Server** in case it is connected to it. Nevertheless, the scan integrated with **MS-Exchange/Outlook** guarantees a scan of all messages received using this e-mail program, regardless of their origin.
- **Scanning of all operations carried out with a message:** the Internet scan checks messages the moment they are received and sent. However, the scan integrated with **MS-Exchange/Outlook** scans all messages subject to being used to carry out an operation, for example the opening, modification or moving files from one folder to another.

**Panda Antivirus 6.0** has added four buttons to the standard **MS-Exchange/Outlook** button bar. These four buttons are:


**Scan:** this button starts a scan of the folder or messages selected when the scan begins. All sub-folders found in the indicated folder will also be scanned. A window allows the user to follow the process, displaying the group of folders to be scanned, the folder being scanned in each moment and a progress bar.

**Results report:** this button displays a report of incidents found by the antivirus. This report is kept from one session to another until deleted by the user.

**Enable or disable the antivirus:** using this button, the Panda Antivirus permanent protection can be enabled or disabled. If this protection is disabled, Panda Antivirus does not scan new incoming or outgoing messages for viruses, nor does it scan any messages upon opening for reading. However, it can scan at any time a particular folder or message using the **Scan** button. The **Exchange/Outlook** startup scan will be performed even though the permanent protection has been disabled.

**Configure:** this button displays the Panda Antivirus configuration window. In this window, you can configure the general functioning of the antivirus, its execution upon the start up of the mail program, as well as its behavior as a permanent and on-demand protection.

## How to scan from MS-Exchange/Outlook

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)


To scan a particular folder, select it. If the selected folder contains other folders (a mailbox, for example), all of the interrelated folders will be scanned. Once the folder has been selected, click on the **Scan** button of the standard **MS-Exchange/Outlook** button bar, or select the **Scan** option to search for viruses within the **Tools** option in the **MS-Exchange/Outlook** main menu.

Once the scan has finished, you will be able to see the results detailing any incidents encountered during the scan.

Panda Antivirus allows you to scan one or more messages. In order to do this, select the message or messages you wish to scan. Once they have been selected, click on the **Scan** button to start the scan.

To select several messages, click on them while pressing the **Control** key. If you wish to select a group of messages, select the first one and click on the last one while pressing the **Shift** key.

## Options: blocking (Internet - Advanced)

 **Note:** certain options are only available depending on the product purchased and the operating system configuration. For more information, see [Differences between versions](#)

In this section, you can specify the Internet addresses you wish to restrict access to in order to prevent the possible infections caused by accessing unreliable addresses or services. It is made up of the following two sections:

**Blocking addresses:** when you mark the check box, the configuration button will be enabled. If pressed, a dialog box will display the following sections:

- **Ask for the action to be taken in case of blocking:** if checked, you will be asked before an address is blocked.
- **Add:** pressing this button will add the new address, written in the box at the top, to the list of addresses.
- **Remove:** if you press this button after selecting an address from the list on the left, it will be deleted from the list.
- **Clear list:** if this button is pressed, all addresses will be removed from the list.

**Blocking services:** when you mark the check box, the configuration button will be enabled. If pressed, a dialog box will display the following sections:

- **Ask for the action to be taken in case of blocking:** if checked, you will be asked before a service is blocked.
- **List:** a list appears detailing all the services that can be blocked. To block a specific service, click on the box that appears to its left.

