

Centre de control de Mageia

The tools to configure the Mageia system



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Centre de control de Mageia

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1. About the Manual for the Mageia Control Center

The Mageia Control Center (MCC) has eight different options or tabs to choose from in the left column, and even ten if the drakwizard package was installed. Each of these tabs gives a different set of tools that can be selected in the big right panel.

The ten following chapters are about those ten options and the related tools.

The last chapter is about some other Mageia tools, that cannot be chosen in any of the MCC tabs.

The titles of the pages will often be the same as the titles of the tool screens.

There is also a search bar available, which you can access by clicking on the "Search" tab in the left column.

2. Gestió de programari

In this screen you can choose between several tools for software management. Click on a link below to learn more.

Gestió de programari

1. [Secció 2.1, “Software Management \(Install and Remove Software\)”](#)
2. [Secció 2.2, “Actualització de paquets de programari”](#) = *Update your system*
3. [Secció 2.3, “Configura la freqüència de les actualitzacions”](#)
4. [Secció 2.4, “Configure Media”](#) = *Configure media sources for install and update*

2.1. Software Management (Install and Remove Software)

rpmrake

2.1.1. Introduction to rpmrake

This tool¹, also known as drakrpm, is a program for installing, uninstalling and updating packages. It is the graphical user interface of URPMI. At each start up, it will check online package lists (called 'media') downloaded straight from Mageia's official servers, and will show you each time the latest applications and packages available for your computer. A filter system allows you to display only certain types of packages: you may display only installed applications (by default), or only available updates. You can also view only not installed packages. You can also search by the name of a package, or in the summaries of descriptions or in the full descriptions of packages or in the file names included in the packages.

To work, rpmrake needs the repositories to be configured with [Secció 2.4, “Configure Media”](#) .



During the installation, the configured repository is the medium used for the installation, generally the DVD or CD. If you keep this medium, rpmrake will ask it each time you want to install a package, with this pop-up window :

If the above message annoys you and you have a good internet connection without too strict download limit, it is wise to remove that medium and replace it by online repositories thanks to [Secció 2.4, “Configure Media”](#) .

Moreover, the online repositories are always up to date, contains much more packages, and allow to update your installed packages.

¹You can start this tool from the command line, by typing **rpmrake** as root.

2.1.2. The main parts of the screen

1. Package type filter:

This filter allows you to display only certain types of packages. The first time you start the manager, it only displays applications with a graphical interface. You can display either all the packages and all their dependencies and libraries or only package groups such as applications only, updates only or backported packages from newer versions of Mageia.



The default filter setting is for new entrants to Linux or Mageia, who probably do not want command line or specialist tools. Since you're reading this documentation, you're obviously interested in improving your knowledge of Mageia, so it is best to set this filter to "All".

2. Package state filter:

This filter allows you to view only the installed packages, only the packages that are not installed or all of the packages, both installed and not installed.

3. Search mode:

Click on this icon to search through the package names, through their summaries, through their complete description or through the files included in the packages.

4. "Find" box:

Enter here one or more key words. If you want to use more than one keyword for searching use '|' between keywords, e.g. To search for "mplayer" and "xine" at the same time type 'mplayer | xine'.

5. Erase all:

This icon can erase in one click all the key words entered in the "Find" box .

6. Categories list:



This side bar groups all applications and packages into clear categories and sub categories.




7. Description panel:

This panel displays the package's name, its summary and complete description. It displays many useful elements about the selected package. It can also show precise details about the package, the files included in the package as well as a list of the last changes made by the maintainer.

2.1.3. The status column

Once you correctly set the filters, you can find your software either by category (in area 6 above) or by name/summary/description using area 4. A list of packages fulfilling your query and, don't forget, the chosen medium is shown with different status markers according to whether each package is installed/not installed/an update... To change this status, just check or uncheck the box before the package name and click on Apply.

Icona	Legend
	This package is already installed
	This package will be installed

Icona	Legend
	This package cannot be modified
	This package is an update
	This package will be uninstalled

Taula 1.

Examples in the screenshot above:

- If I uncheck digikam (the green arrow tell us it is installed), the status icon will go red with an up arrow and it will be uninstalled when clicking on Apply.
- If I check qdigidoc (which is not installed, see the status), the orange with a down arrow status icon will appear and it will be installed when clicking on Apply.

2.1.4. The dependencies

Some packages need other packages called dependencies in order to work. They are for example libraries or tools. In this case, Rpmrake displays an information window allowing you to choose whether to accept the selected dependencies, cancel the operation or get more information (see above). It may also happen that various packages are able to provide the needed library, in which case rpmrake displays the list of alternatives with a button to get more information and another button to choose which package to install.

2.2. Actualització de paquets de programari

MageiaUpdate or drakrpm-update

This tool² is present in the Mageia Control Center under the tab **Software management**.



To work, MageiaUpdate needs the repositories to be configured with drakrpm-editmedia with some media checked as updates. If they are not, you are prompted to do so.

As soon as this tool is launched, it scans the installed packages and lists those with an update available in the repositories. They are all selected by default to be automatically downloaded and installed. Click on the Update button to start the process.

By clicking on a package, more information is displayed in the lower half of the window. The print > before a title means you can click to drop down a text.



When updates are available, an applet in the system tray warns you by displaying this red icon . Just click and enter the user password to update the system alike.

²You can start this tool from the command line, by typing **MageiaUpdate** or **drakrpm-update** as root.

2.3. Configura la freqüència de les actualitzacions

mgaapplet-config

This tool³ is present in the Mageia Control Center under the tab **Software management**. It is also available by a right click / Updates configuration on the red icon in the system tray.

The first slider allows you to change how frequently Mageia will check for updates and the second the delay after booting before the first check. The check box gives you the option to be warned when a new Mageia release is out.

2.4. Configure Media

drakrpm-edit-media



First thing to do after an install is to add software sources (also known as repositories, media, mirrors). That means you must select the media sources to be used to install and update packages and applications. (see Add button below).



If you install (or upgrade) Mageia using an optical media (DVD or CD) or a USB device, there will be a software source configured to the optical media used. To avoid being asked to insert the media when you install new packages, you should disable (or delete) this media. (It will have the media type CD-Rom).



Your system is running under an architecture which may be 32-bit (called i586), or 64-bit (called x86_64). Some packages are independent of whether your system is 32-bit or 64-bit; these are called noarch packages. They don't have their own noarch directories on the mirrors, but are all in both the i586 and the x86_64 media.

This tool is present in the Mageia Control Center under the tab **Software management**.⁴

2.4.1. The columns

Column Enable:

The checked media will be used to install new packages. Be cautious with some media such as Testing and Debug, they could make your system unusable.

Column Update:

The checked media will be used to update packages, it must be enabled. Only media with "Update" in its name should be selected. For security reasons, this column isn't modifiable in this tool, you must open a console as root and type **drakrpm-edit-media --expert**.

Column medium:

Display the medium name. Mageia official repositories for final release versions contain at least:

³You can start this tool from the command line, by typing **mgaapplet-config** as root.

⁴You can start this tool from the command line, by typing **drakrpm-edit-media** as root.

-
- **Core** which contains most programs available supported by Mageia.
 - **Nonfree** which contains some programs which are not free
 - **Tainted** free software for which there might be patent claims in some countries.

Each medium has 4 sub-sections:

- **Release** the packages as of the day the this version of Mageia was released.
- **Updates** the packages updated since release due to security or bug concerns. Everyone should have this medium enabled, even with a very slow internet connection.
- **Backports** some packages of new versions backported from Cauldron (the next version under development).
- **Testing** which is used for temporary tests of new updates, to allow the bug reporters and the QA team to validate the corrections.

2.4.2. *The buttons on the right*

Remove:

To remove a medium, click on it and then on this button. It is wise to remove the medium used for the installation (CD or DVD for example) since all the packages it contains are in the official Core release medium.

Edit:

Allows you to modify the selected medium settings, (URL, downloader and proxy).

Add:

Add the official repositories available on the Internet. These repositories contain only safe and well tested software. Clicking on the "Add" button adds the mirrorlist to your configuration, it is designed to make sure that you install and update from a mirror close to you. If you prefer to choose a specific mirror, then add it by choosing "Add a specific media mirror" from the drop-down "File" menu.

Up and down arrows:

Change the list order. When Drakrpm looks for a package, it reads the list in the displayed order and will install the first package found for the same release number - in the event of a version mismatch, the latest release will be installed. So if possible, put the fastest repositories at the top.

2.4.3. *El menú*

File -> Update:

A window pops up with the media list. Select the ones you want to update and click on the Update button.

File -> Add a specific media mirror:

Suppose you aren't happy with the actual mirror, because for example it's too slow or often unavailable, you can choose another mirror. Select all the actual media and click on Remove to take them out. Click on File -> Add a specific media mirror, choose between update only or the full set (if you do not know, choose the Full set of sources) and accept the contact by clicking on Yes. This window opens:

You can see, on the left, a list of countries, choose yours or one very close by clicking on the > symbol, this will display all the available mirrors in that country. Select one and click on OK.

File -> Add a custom medium:

It is possible to install a new media (from a third party for example) that isn't supported by Mageia. A new window appears:

Select the medium type, find a smart name that will define the medium and give the URL (or the path, according to the medium type)

Options -> Global options:

This item allows you to choose when to "Verify RPMs to be installed" (always or never), the download program (curl, wget or aria2) and to define the download policy for information about the packages (on demand -by default-, update only, always or never).

Options -> Manage keys:

To guarantee a high level of security, digital keys are used to authenticate the media. It is possible for each medium to allow or disallow a key. In the window that appears, select a medium and then click on Add to allow a new key or to select a key and click on Remove to disallow that key.



Do this with care, as with all security-related questions

Options -> Proxy:

If you need to use a proxy server for internet access, you can configure it here. You only need to give the Proxy hostname and if necessary a Username and Password.

For more information about configuring the media, see [the Mageia Wiki page](https://wiki.mageia.org/en/Software_management) [https://wiki.mageia.org/en/Software_management].

3. Compartició

This screen and the one for *Network Services* are only visible if the *drakwizard* package is installed. You can choose between several tools to set up different servers. Click on a link below or on [Secció 4, "Serveis de xarxa"](#) to learn more.

Compartició

1. [Secció 3.1, "Configura FTP"](#)
2. [Secció 3.2, "Configure webserver"](#)

3.1. Configura FTP

drakwizard proftpd

This tool⁵ can help you to set up an FTP server.

3.1.1. What is FTP?

File Transfer Protocol (FTP) is a standard network protocol used to transfer files from one host to another host over a TCP-based network, such as the Internet. (From Wikipedia)

3.1.2. Setting up an FTP server with drakwizard proftpd

Welcome to the FTP wizard. Buckle up.

⁵You can start this tool from the command line, by typing **drakwizard proftpd** as root.

1. **Introducció**

The first page is just an introduction, click Next.

2. **Selecting Server Exposer: Local Net and/or World**

Exposing the FTP server to the Internet has it's risks. Be ready for bad things.

3. **Server Information**

Enter name the sever will use to introduce itself, someone to email complaints too and whether to allow root login access.

4. **Opcions del servidor**

Set listening port, jailed user, allow resumes and/or FXP (File eXchange Protocol)

5. **Resum**

Take a second to check these options, then click Next.

6. **Fi**

You're done! Click Finish.

3.2. Configure webserver

drakwizard apache2

This tool⁶ can help you to set up a web server.

3.2.1. Què és un servidor web?

Web server is the software that helps to deliver web content that can be accessed through the Internet. (From Wikipedia)

3.2.2. Setting up a web server with drakwizard apache2

Benvingut/da a l'auxiliar del servidor web.

1. **Introducció**

The first page is just an introduction, click Next.

2. **Selecting Server Exposer: Local Net and/or World**

Exposing the web server to the Internet has it's risks. Be ready for bad things.

3. **Server User Module**

Allows users to create their own sites.

⁶You can start this tool from the command line, by typing **drakwizard apache2** as root.

4. User web directory name

The user needs to create and populate this directory, then the server will display it.

5. Server Document Root

Allows you to configure the path to the web servers default documents.

6. Resum

Take a second to check these options, then click Next.

7. Fi

You're done! Click Finish.

4. Serveis de xarxa

This screen and the one for *Sharing* are only visible if the *drakwizard* package is installed. You can choose between several tools to set up different servers. Click on a link below or on [Secció 3, "Compartició"](#) to learn more.

Serveis de xarxa

1. [Secció 4.1, "Configura DHCP"](#)
2. [Secció 4.2, "Configura DNS"](#)
3. [Secció 4.3, "Configura el servidor intermediari"](#)
4. [Secció 4.4, "Configura l'hora"](#)
5. [Secció 4.5, "Configuració del dimoni OpenSSH"](#)

4.1. Configura DHCP

drakwizard dhcp



This tool is broken in Mageia 4 because of new naming scheme for the Net interfaces

This tool⁷ can help you to set up a DHCP server. It is a component of drakwizard which should be installed before you can access to it.

4.1.1. What is DHCP?

The Dynamic Host Configuration Protocol (DHCP) is a standardized networking protocol used on IP networks that dynamically configures IP addresses and other information that is needed for Internet communication. (From Wikipedia)

4.1.2. Setting up a DHCP server with drakwizard dhcp

Benvingut/da a l'auxiliar del servidor DHCP.

⁷You can start this tool from the command line, by typing **drakwizard dhcp** as root.

1. **Introducció**

The first page is just an introduction, click Next.

2. **Selecting Adaptor**

Choose the network interface, which is connected to the subnet, and for which DHCP will assign IP addresses, and then click Next.

3. **Select IP range**

Select the beginning and ending IP addresses of the range of IPs you want the server to offer, along with the IP of the gateway machine connecting to some place outside the local network, hopefully close to the Internet, then click Next.

4. **Resum**

Take a second to check these options, then click Next.

5. **Hold on...**

This can be fixed. Click Previous a few times and change things around.

6. **Hours later...**

4.1.3. What is done

- Instal·lació del paquet `dhcp-server`, si cal;
- Saving `/etc/dhcpd.conf` in `/etc/dhcpd.conf.orig`;
- Creating a new `dhcpd.conf` starting from `/usr/share/wizards/dhcp_wizard/scripts/dhcpd.conf.default` and adding the new parameters:
 - `hname`
 - `dns`
 - `net`
 - `ip`
 - `mask`
 - `rng1`
 - `rng2`
 - `dname`
 - `gateway`
 - `tftpserverip`
 - `dhcpd_interface`
- Also modifying Webmin configuration file `/etc/webmin/dhcpd/config`
- Restarting `dhcpd`.

4.2. Configura DNS

drakwizard bind

This page hasn't been written yet for lack of resources. If you think you can write this help, please contact [the Doc team](https://wiki.mageia.org/en/Documentation_team). [https://wiki.mageia.org/en/Documentation_team] Thanking you in advance.

You can start this tool from the command line, by typing **drakwizard bind** as root.

4.3. *Configura el servidor intermediari*

drakwizard squid

This tool⁸ can help you to set up a proxy server. It is a component of drakwizard which should be installed before you can access to it.

4.3.1. *What is a proxy server?*

A proxy server is a server (a computer system or an application) that acts as an intermediary for requests from clients seeking resources from other servers. A client connects to the proxy server, requesting some service, such as a file, connection, web page, or other resource available from a different server and the proxy server evaluates the request as a way to simplify and control its complexity. (From Wikipedia)

4.3.2. *Setting up a proxy server with drakwizard squid*

Benvingut/da a l'auxiliar del servidor intermediari.

1. **Introducció**

The first page is just an introduction, click Next.

2. **Selecting the proxy port**

Select the proxy port browsers will connect through, then click Next.

3. **Set Memory and Disk Usage**

Set memory and disk cache limits, then click Next.

4. **Select Network Access Control**

Set visibility to local network or world, then click Next.

5. **Grant Network Access**

Grant access to local networks, then click Next.

6. **Use Upper Level Proxy Server?**

Cascade through another proxy server? If no, skip next step.

7. **Upper Level Proxy URL and Port**

Provide upper level proxy hostname and port, then click Next.

8. **Resum**

⁸You can start this tool from the command line, by typing **drakwizard squid** as root.

Take a second to check these options, then click Next.

9. **Start during boot?**

Choose if the proxy server should be started during the boot time, then click Next.

10. **Fi**

You're done! Click Finish.

4.3.3. What is done

- Instal·lació del paquet `squid`, si cal;
- Saving `/etc/squid/squid.conf` in `/etc/squid/squid.conf.orig`;
- Creating a new `squid.conf` starting from `squid.conf.default` and adding the new parameters:
 - `cache_dir`
 - `localnet`
 - `cache_mem`
 - `http_port`
 - level 1, 2 or 3 and `http_access` according to level
 - `cache_peer`
 - `visible_hostname`
- Restarting `squid`.

4.4. Configura l'hora

`drakwizard ntp`

This tool⁹ purpose is to set the time of your server synchronised with an external server. It isn't installed by default and you have to also install the `drakwizard` and `drakwizard-base` packages.

4.4.1. Setup a NTP server with `drakwizard ntp`

1. After a welcome screen (see above), the second one ask you to choose three time servers in the drop down lists and suggests to use `pool.ntp.org` twice because this server always points to available time servers.
2. The following screens allows to choose the region and the city and then, you arrive on a summary. If something is wrong, you can obviously change it using the `Previous` button. If everything is right, click on the `Next` button to proceed to the test. It may take a while and you finally get this screen below:
3. Click on the `Finish` button to close the tool

4.4.2. What is done

This tool executes the following steps:

- Instal·lació del paquet `ntp`, si cal.

⁹You can start this tool from the command line, by typing `drakwizard ntp` as root.

-
- Saving the files `/etc/sysconfig/clock` to `/etc/sysconfig/clock.orig` and `/etc/ntp/step-tickers` to `/etc/ntp/step-tickers.orig`;
 - Writing a new file `/etc/ntp/step-tickers` with the list of servers;
 - Modifying the file `/etc/ntp.conf` by inserting the first server name;
 - Stopping and starting `crond`, `atd` and `ntpd` services;
 - Setting the hardware clock to the current system time with UTC reference.

4.5. Configuració del dimoni OpenSSH

`drakwizard sshd`

This tool¹⁰ can help you to set up an SSH daemon.

4.5.1. What is SSH?

Secure Shell (SSH) is a cryptographic network protocol for secure data communication, remote command-line login, remote command execution, and other secure network services between two networked computers that connects, via a secure channel over an insecure network, a server and a client (running SSH server and SSH client programs, respectively). (From Wikipedia)

4.5.2. Setting up an SSH daemon with `drakwizard sshd`

Benvingut/da a l'auxiliar d'Open SSH.

1. **Select Type of Configure Options**

Choose Expert for all options or Newbie to skip steps 3-7, click Next.

2. **Opcions generals**

Sets visibility and root access options. Port 22 is the standard SSH port.

3. **Authentication Methods**

Allow a variety of authentication methods users can use while connecting, then click Next.

4. **Logging**

Choose logging facility and level of output, then click Next.

5. **Login Options**

Configure per-login settings, then click Next.

6. **User Login Options**

Configure the user access settings, then click Next.

7. **Compression and Forwarding**

Configure X11 forwarding and compression during transfer, then click Next.

¹⁰You can start this tool from the command line, by typing `drakwizard sshd` as root.

8. **Resum**

Take a second to check these options, then click Next.

9. **Fi**

You're done! Click Finish.

5. *Maquinari*

In this screen you can choose between several tools to configure your hardware. Click on a link below to learn more.

1. *Administra el maquinari*
 - a. [Secció 5.1, “Hardware configuration”](#) = *Browse and configure hardware*
 - b. [Secció 5.2, “Configuració del so”](#)
2. *Configura els gràfics*
 - a. [Secció 5.3, “3D Desktop Effects”](#) = *Configure 3D Desktop effects*
 - b. [Secció 5.4, “Configura el servidor gràfic”](#)
3. *Configura teclat i ratolí*
 - a. [Secció 5.5, “Configura la disposició del teclat”](#)
 - b. [Secció 5.6, “Configura el dispositiu de punter \(ratolí, ratolí tàctil\)”](#)
4. *Configura impressió i escaneig*
 - a. [Secció 5.7, “Install and configure a printer”](#) = *Set up the printer(s), the print job queues, ...*
 - b. [Secció 5.8, “Configura un escàner”](#)
5. *Altres*
 - a. [Secció 5.9, “Configura un SAI per monitorar el corrent”](#)

5.1. *Hardware configuration*

harddrake2

This tool¹¹ gives a general view of the hardware of your computer. When the tool is launched, it executes a job to look for every element of the hardware. For that, it uses the command `ldetect` which refers to a list of hardware in `ldetect-1st` package.

5.1.1. *The window*

The window is divided in two columns.

The left column contains a list of the detected hardware. The devices are grouped by categories. Click on the `>` to expand the content of a category. Each device can be selected in this column.

The right column displays information about the selected device. The `Help -> Fields description` gives some information about the content of the fields.

¹¹You can start this tool from the command line, by typing `harddrake2` as root.

According to which type of device is selected, either one or two buttons are available at the bottom of the right column:

- Set current driver options: this can be used to parameterize the module which is used in relation to the device. This must be used by experts only.
- Run config tool: access to the tool which can configure the device. The tool can often be accessed directly from the MCC.

5.1.2. El menú

Opcions

The options menu gives the opportunity to check boxes to enable automatic detection:

- modem
- Jaz devices
- Zip parallel devices

By default these detections are not enabled, because they are slow. Check the appropriate box(es) if you have this hardware connected. Detection will be operational the next time this tool is started.

5.2. Configuració del so

draksound

This tool¹² is present in the Mageia Control Center under the tab **Hardware**.

Draksound deals with the sound configuration, PulseAudio options and troubleshooting. It will help you if you experience sound problems or if you change the sound card.

PulseAudio is a sound server. It receives all the sound inputs, mixes them according to the user preferences and sends the resulting sound to the output. See Menu ->Sound and video -> PulseAudio volume control to set these preferences.

PulseAudio is the default sound server and it is recommended to leave it enabled.

Glitch-Free improves PulseAudio with some programs. It is also recommended to leave it enabled.

The Troubleshooting button gives assistance with fixing any problems you may have. You will find it helpful to try this before asking the community for help.

The Advanced button displays a new window with an obvious button.

5.3. 3D Desktop Effects

drak3d

5.3.1. Introducció

Aquesta eina¹³ us permet administrar els efectes d'escriptori 3D al vostre sistema operatiu. Els efectes 3D estan desactivats per defecte.

¹²You can start this tool from the command line, by typing **draksound** as root.

¹³Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **drak3d** com a root.

5.3.2. Començant

Per utilitzar aquesta eina, cal tenir instal·lat el paquet `glxinfo`. Si el paquet no està instal·lat, us demanarà que ho feu abans de començar `drak3d`.

Després d'iniciar `drak3d`, se us proporcionarà una finestra de menú. Aquí es pot triar entre Sense efectes 3D o Compiz Fusion. Compiz Fusion és part d'un gestor de composició/finestra, que inclou efectes especials accelerats per maquinari per al seu escriptori. Trieu Compiz Fusion per començar.

Si aquesta és la primera vegada que utilitzeu aquest programa després d'una instal·lació neta de Mageia, rebreu un missatge d'avertència que us diu quins paquets necessiten ser instal·lats per tal d'utilitzar Compiz Fusion. Feu clic al botó D'acord per continuar.

Un cop instal·lats els paquets apropiats, s'adonarà que s'ha seleccionat Compiz Fusion al menú `drak3d`, però ha de tancar la sessió i tornar a iniciar-la perquè els canvis tinguin efecte.

Després d'iniciar sessió de nou, Compiz Fusion serà activat. Per configurar Compiz Fusion, vegeu la pàgina per l'eina `ccsm` (CompizConfig Settings Manager).

5.3.3. Resolució de problemes

5.3.3.1. No es pot veure l'escriptori després d'iniciar sessió

Si després d'activar Compiz Fusion intenta iniciar sessió en el seu escriptori, però no pot veure res, reinicïu l'equip per tornar a la pantalla d'accés. Un cop allà, feu clic a la icona d'escriptori i seleccioneu `drak3d`.

Quan us connecteu, si el vostre compte apareix com a administrador, se us demanarà la vostra contrasenya de nou. En cas contrari, utilitzeu el nom d'administrador amb el vostre compte. A continuació, podeu desfer els canvis que poden haver causat el problema d'inici de sessió.

5.4. Configura el servidor gràfic

XFdrake

This tool is present in the Mageia Control Center under the tab **Hardware**. Select *Set up the graphical server*.¹⁴

The buttons allow you to change the graphical configuration.

Graphic card:

The graphic card currently detected is displayed and the matching server configured. Click on this button to change to another server, for example one with a proprietary driver.

The available servers are sorted under Vendor by manufacturer in alphabetical order and then by model also in alphabetical order. The free drivers are sorted by alphabetical order under Xorg.



In case of problems, *Xorg - Vesa* will work with most graphic cards and give you time to find and install the right driver while in your Desktop Environment.

If even Vesa doesn't work, choose *Xorg - fbdev*, which is used while installing Mageia, but doesn't allow you to change resolution or refresh rates.

¹⁴You can start this tool from the command line, by typing `XFdrake` as normal user or `drakx11` as root. Mind the capital letters.

If you made your choice for a free driver, you may be asked if you want to use a proprietary driver instead with more features (3D effects for example).

Monitor:

In the same way as above, the monitor currently detected is displayed and you can click on the button to change to another one. If the desired monitor isn't in the Vendor list, choose in the Generic list a monitor with the same features.

Resolution:

This button allows the choice of the resolution (number of pixels) and the colour depth (number of colours). It displays this screen:

When you change the color depth, a multi-colored bar will appear next to the second button and show a preview of what the selected color depth looks like.

The first button shows the currently resolution, click to change for another one. The list gives all the possible choices according to the graphic card and the monitor, it is possible to click on Other to set other resolutions, but bear in mind that you can damage your monitor or select an uncomfortable setting.

The second button shows the currently colour depth, click to change this for another one.



Depending on the chosen resolution, it may be necessary to logout and restart the graphical environment for the settings to take effect.

Test:

Once the configuration done, it is recommended to do a test before clicking on OK because it is easier to modify the settings now than later if the graphical environment doesn't work.



In case of a non working graphical environment, type Alt+Ctrl+F2 to open a text environment, connect as root and type XFdrake (with the caps) to to use XFdrake's text version.

If the test fails, just wait until the end, if it works but you don't want to change after all, click on No, if everything is right, click on OK.

Options:

1. Global options: If *Disable Ctrl-Alt-Backspace* is checked, it will no longer be possible to restart X server using Ctrl+Alt+Backspace keys.
2. Graphic card options: Allows you to enable or disable three specific features depending on the graphic card.
3. Graphical interface at startup: Most of the time, *Automatically start the graphical interface (Xorg) upon booting* is checked to make the boot switch to graphical mode, it may be unchecked for a server.

After a click on the Quit button, the system will ask you to confirm. There is still time to cancel everything and keep the previous configuration, or to accept. In this case, you have to disconnect and reconnect to activate the new configuration.

5.5. Configura la disposició del teclat

keyboardrake

5.5.1. Introducció

The keyboardrake tool¹⁵ helps you configure the basic layout for the keyboard that you wish to use on Mageia. It affects the keyboard layout for all users on the system. It can be found in the Hardware section of the Mageia Control Center (MCC) labelled "Configure mouse and keyboard".

5.5.2. Keyboard Layout

Here you can select which keyboard layout you wish to use. The names (listed in alphabetical order) describe the language, country, and/or ethnicity each layout should be used for.

5.5.3. Keyboard Type

This menu lets you select the type of keyboard you are using. If you are unsure of which to choose, it is best to leave it as the default type.

5.6. Configura el dispositiu de punter (ratolí, ratolí tàctil)

mousedrake

This tool¹⁶ is present in the Mageia Control Center under the tab **Hardware**.

As you must have a mouse to install Mageia, that one is already installed by Drakinstall. This tool allows installation of another mouse.

The mice are sorted by connection type and then by model. Select your mouse and click on OK. Most of the time "Universal / Any PS/2 & USB mice" is suitable for a recent mouse. The new mouse is immediately taken into account.

5.7. Install and configure a printer

system-config-printer

5.7.1. Introducció

Printing is managed on Mageia by a server named CUPS. It has its own [configuration interface](http://localhost:631) [http://localhost:631] which is accessible via an Internet browser, but Mageia offers its own tool for installing printers called system-config-printer which is shared with other distributions such as Fedora, Mandriva, Ubuntu and openSUSE.

You should enable the non-free repository before proceeding with the installation, because some drivers may only be available in this way.

Printer installation is carried out in the Hardware section of the Mageia Control Centre. Select the Configure printing and scanning tool¹⁷.

MCC will ask for the installation two packages:

¹⁵You can start this tool from the command line, by typing **keyboardrake** as root.

¹⁶You can start this tool from the command line, by typing **mousedrake** as root.

¹⁷You can start this tool from the command line, by typing *system-config-printer*. The root password will be asked for.

task-printing-server

task-printing-hp

It is necessary to accept this installation to continue. Up to 230MB of dependencies are needed.

To add a printer, choose the "Add" printer button. The system will try to detect any printers and the ports available. The screenshot displays a printer connected to a parallel port. If a printer is detected, such as a printer on a USB port, it will be displayed on the first line. The window will also attempt to configure a network printer.

5.7.2. *Automatically detected printer*

This usually refers to USB printers. The utility automatically finds the name of the printer and displays it. Select the printer and then click "Next". If there is a known driver associated for the printer, it will be automatically installed. If there is more than one driver or no known drivers, a window will ask you to select or furnish one, as explained in the next paragraph. Continue with [Sección 5.7.4, "Complete the installation process"](#)

5.7.3. *No automatically detected printer*

When you select a port, the system loads a driver list and displays a window to select a driver. The choice can be made through one of the following options.

- Select printer from database
- provide PPD file
- search for a driver to download

By selecting from the database, the window suggests a printer manufacturer first, and then a device and a driver associated with it. If more than one driver is suggested, select one which is recommended, unless you have encountered some problems with that one before, in this case select the one which know to work.

5.7.4. *Complete the installation process*

After the driver selection, a window requests some information which will allow the system to designate and discover the printer. The first line is the name under which the device will appear in applications in the list of available printers. The installer then suggests printing a test page. After this step, the printer is added and appears in the list of available printers.

5.7.5. *Network printer*

Network printers are printers that are attached directly to a wired or wireless network, that are attached to a printserver or that are attached to another workstation that serves as printserver.



Often, it is better to configure the DHCP server to always associate a fixed IP address with the printer's MAC-address. Of course that should be the same as the IP address the printer of printserver is set to, if it has a fixed one.

The printer's Mac-address is a serial number given to the printer or printserver or computer it is attached to, that can be obtained from a configuration page printed by the printer or which may be written on a label on the printer or printserver. If your shared printer is attached to a Mageia system, you can run `ifconfig` on it as root to find the MAC-address. It is the sequence of numbers and letters after "HWaddr".

You can add your network printer by choosing the protocol it uses to talk to your computer over the network. If you don't know which protocol to choose, you can try the Network Printer - Find Network Printer option in the Devices menu and give the IP address of the printer in the box on the right, where it says "host".

If the tool recognises your printer or printserver, it will propose a protocol and a queue, but you can choose a more appropriate one from the list below it or give the correct queue name if it isn't in the list.

Look in the documentation that came with your printer or printserver to find which protocol(s) it supports and for possible specific queue names.

5.7.6. Network printing protocols

One current technique is one developed by Hewlett-Packard and known as JetDirect. It allows access to a printer directly connected to the network via an Ethernet port. You must know the IP-address at which the printer is known on the network. This technique is also used inside some ADSL-routers which contain an USB port to connect the printer. In this case, the IP-address is that of the router. Note that the tool "Hp Device manager" can manage dynamically configured IP-address, setting an URI like `hp:/net/<name-of-the-printer>`. In this case, fixed IP-address is not required.

Choose the option AppSocket/HP JetDirect as the protocol and set the address in Host:, do not change the Port Number, unless you know that it needs to be changed. After the selection of the protocol, the selection of the driver is the same as above.

The other protocols are:

- *Internet Printing Protocol (ipp)*: a printer which can be accessed on a TCP/IP network via the IPP protocol, for example a printer connected to a station using CUPS. This protocol may also be used also by some ADSL-routers.
- *Internet Printing Protocol (https)*: the same as ipp, but using http transport and with TLS secured protocol. The port has to be defined. By default, the port 631 is used.
- *Internet Printing Protocol (ipps)*: the same as ipp, but with TLS secured protocol.
- *LPD/LPR host or Printer*: a printer which can be accessed on a TCP/IP network via the LPD protocol, for example a printer connected to a station using LPD.
- *Windows printer via SAMBA*: a printer connected to a station running Windows or a SMB server and shared.

The URI can also be added directly. Here are some examples on how to form the URI:

- Appsocket

```
socket://ip-address-or-hostname:port
```

- Internet Printing Protocol (IPP)

```
ipp://ip-address-or-hostname:port-number/resource
```

```
http://ip-address-or-hostname:port-number/resource
```

- Line Printer Daemon (LPD) Protocol

```
lpd://username@ip-address-or-hostname/queue
```

Additional information can be found in the [CUPS documentation](http://www.cups.org/documentation.php/doc-1.5/network.html). [http://www.cups.org/documentation.php/doc-1.5/network.html]

5.7.7. Device Properties

You can access the properties of the device. The menu allows access to parameters for the CUPS server. By default a CUPS server is launched on your system, but you can specify a different one with the Server | Connect... menu, another window which gives access to the tuning of other specific parameters of the server, following Server | Settings.

5.7.8. Troubleshoot

You can find some information on occurring errors during printing by inspecting `/var/log/cups/error_log`

You can also access to a tool to diagnose problems using the Help | Troubleshoot menu.

5.7.9. Specifics

It is possible that some drivers for specific printers are not available in Mageia or are not functional. In this case, have a look at the [openprinting](http://openprinting.org/printers/) [http://openprinting.org/printers/] site to check if a driver for your device is available. If yes, check if the package is already present in Mageia and in this case install it manually. Then, redo the installation process to configure the printer. In all cases, report the problem in bugzilla or on the forum if you are comfortable with this tool and furnish the model and driver information and whether the printer works or not after installation. Here are some sources to find other up-to-date drivers or for more recent devices.

Brother printers

[This page](http://welcome.solutions.brother.com/bsc/public_s/id/linux/en/download_prn.html) [http://welcome.solutions.brother.com/bsc/public_s/id/linux/en/download_prn.html] give a list of drivers provided by Brother. Search the driver for your device, download the rpm(s) and install.

You should install Brother drivers before running the configuration utility.

Hewlett-Packard printers and All in one devices

These devices use the hplip tool. It is installed automatically after the detection or the selection of the printer. You can find other information [here](http://hplipopensource.com/hplip-web/index.html) [http://hplipopensource.com/hplip-web/index.html]. The tool "HP Device Manager" is available in the System menu. Also view [configuration](http://hplipopensource.com/hplip-web/install/manual/hp_setup.html) [http://hplipopensource.com/hplip-web/install/manual/hp_setup.html] for the management of the printer.

A HP All in one device must be installed as a printer and the scanner features will be added. Note that sometimes, the Xsane interface doesn't allow to scan films or slides (the lighting slid can't operate). In this case, it is possible to scan, using the standalone mode, and save the picture on a memory card or USB stick inserted in the device. Afterwards, open your favourite imaging software and load your picture from the memory card which is appeared in the `/media` folder.

Samsung colour printer

For specific Samsung and Xerox colour printers, [this site provides drivers](http://foo2qpd.rkkda.com/) [http://foo2qpd.rkkda.com/] for the QPDL protocol.

Epson printers and scanners

Drivers for Epson printers are available from [this search page](http://download.ebz.epson.net/dsc/search/01/search/?OSC=LX) [http://download.ebz.epson.net/dsc/search/01/search/?OSC=LX]. For the scanner part, you must install the "iscan-data" package first, then "iscan" (in this order). A iscan-plugin package can also be available and is to install. Choose the *rpm* packages according to your architecture.

It is possible that the iscan package will generate a warning about a conflict with sane. Users have reported that this warning can be ignored.

Canon printers

For Canon printers, it may be advisable to install a tool named turboprint [available here](http://www.turbo-print.info/) [http://www.turbo-print.info/].

5.8. Configura un escàner

scannerdrake

5.8.1. Instal·lació

This tool ¹⁸ allows you to configure a single scanner device or a multifunction device which includes scanning. It also allows you to share local devices connected to this computer with a remote computer or to access remote scanners.

When you start this tool for the first time, you may get the following message:

"SANE packages need to be installed to use scanners

Do you want to install the SANE packages?"

Choose *Yes* to continue. It will install `scanner-gui` and `task-scanning` if they are not yet installed.

If your scanner is identified correctly, so if in the above screen you see the name of your scanner, the scanner is ready for use with, for instance, *XSane* or *Simple Scan*.

In that case, you might now want to want to configure the *Scanner sharing* option. You can read about it in the [Secció 5.8.2, "Scannersharing"](#).

However, if your scanner hasn't been correctly identified, and checking its cable(s) and power switch and then pressing *Search for new scanners* doesn't help, you'll need to press *Add a scanner manually*.

Choose the brand of your scanner in the list you see, then its type from the list for that brand and click *Ok*



If you can't find your scanner in the list, then click *Cancel*

Please check whether your scanner is supported on the [SANE: Supported Devices](http://www.sane-project.org/lists/sane-mfgs-cvs.html) [http://www.sane-project.org/lists/sane-mfgs-cvs.html] page and ask for help in the [forums](http://forums.mageia.org/en/) [http://forums.mageia.org/en/].

Figura 1. Choose port

You can leave this setting to *Auto-detect available ports* unless your scanner's interface is a parallel port. In that case, select `/dev/parport0` if you have only one.

After clicking *Ok*, in most cases you will see a screen similar to the one below.

If you don't get that screen, then please read the [Secció 5.8.4, "Extra installation steps"](#).

5.8.2. Scannersharing

¹⁸You can start this tool from the command line, by typing `scannerdrake` as root.

Here you can choose whether the scanners connected to this machine should be accessible by remote machines and by which remote machines. You can also decide here whether scanners on remote machines should be made available on this machine.

Scanner sharing to hosts : name or IP address of hosts can be added or deleted from the list of hosts allowed to access the local device(s), on this computer.

Usage of remote scanners : name or IP address of hosts can added or deleted from the list of hosts which give access to a remote scanner.

Scanner sharing to hosts: you can add host.

Scanner sharing to hosts: specify which host(s) to add, or allow all remote machines.

"All remote machines" are allowed to access the local scanner.

If the package *saned* is not yet installed, the tool offers to do it.

At the end, the tool will alter these files:

/etc/sane.d/saned.conf

/etc/sane.d/net.conf

/etc/sane.d/dll.conf to add or comment the directive "net"

It will also configure *saned* and *xinetd* to be started on boot.

5.8.3. Specifics

- Hewlett-Packard

Most HP scanners are managed from *HP Device Manager* (hplip) which also manages printers. In this case, this tool does not allow you to configure it and invites you to use *HP Device Manager*.

- Epson

Drivers are available from [this page](http://download.ebz.epson.net/dsc/search/01/search/?OSC=LX) [http://download.ebz.epson.net/dsc/search/01/search/?OSC=LX]. When indicated, you must install the *iscan-data* package first, then *iscan* (in this order). It is possible that the *iscan* package will generate a warning about a conflict with *sane*. Users have reported that this warning can be ignored.

5.8.4. Extra installation steps

It is possible that after selecting a port for your scanner in the [Figura 1, "Choose port"](#) screen, you need to take one or more extra steps to correctly configure your scanner.

- In some cases, you're told the scanner needs its firmware to be uploaded each time it is started. This tool allows you to load it into the device, after you installed it on your system. In this screen you can install the firmware from a CD or a Windows installation, or install the one you downloaded from an Internet site of the vendor.

When your device's firmware needs to be loaded, it can take a long time at each first usage, possibly more than one minute. So be patient.

- Also, you may get a screen telling you to adjust the */etc/sane.d/"name_of_your_SANE_backend".conf* file.

-
- Read those or other instructions you get carefully and if you don't know what to do, feel free to ask for help in the [forums](http://forums.mageia.org/en/) [http://forums.mageia.org/en/].

5.9. Configura un SAI per monitorar el corrent

drakups

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You can start this tool from the command line, by typing **drakups** as root.

6. Xarxa i Internet

In this screen you can choose between several network tools. Click on a link below to learn more.

1. *Administra dispositius de xarxa*
 - a. [Secció 6.1, “Centre de xarxes”](#)
 - b. [Secció 6.2, “Configura una interfície de xarxa nova \(LAN, ISDN, ADSL...\)”](#)
 - c. [Secció 6.3, “Suprimeix una connexió”](#)
2. *Personalitza i assegura la xarxa*
 - a. [Secció 6.4, “Servidor intermediari”](#)
 - b. [Secció 6.5, “Comparteix la connexió a internet amb altres màquines locals”](#)
 - c. [Section 6.6, “Administra diferents perfils de xarxa”](#)
 - d. [Secció 6.7, “Configure VPN Connection to secure network access”](#)
3. *Altres*
 - a. [Secció 6.8, “Definicions dels amfitrions”](#)




6.1. Centre de xarxes

draknetcenter

This tool¹⁹ is found under the Network & Internet tab in the Mageia Control Center labelled "Network Center"

6.1.1. Introducció

When this tool is launched, a window opens listing all the networks configured on the computer, whatever their type (wired, wireless, satellite, etc.). When clicking on one of them, three or four buttons appear, depending on the network type, to allow you to look after the network, change its settings or connect/disconnect. This tool isn't intended to create a network, for this see Set up a new network interface (LAN, ISDN, ADSL, ...) in the same MCC tab.

In the screenshot below, given as example, we can see two networks, the first one is wired and connected, recognizable by this icon  (this one is not connected^{*}) and the second section shows wireless networks, not connected recognizable by this icon  and this one  if connected. For the other network types, the colour code is always the same, green if connected and red if not connected.

¹⁹You can start this tool from the command line, by typing **draknetcenter** as root.

In the wireless part of the screen, you can also see all the detected networks, with the SSID, the Signal strength, if they are encrypted (in red) or not (in green), and the Operating mode. Click on the chosen one and then either on Monitor, Configure or Connect. It is possible here to go from a network to another one. If a private network is selected, the Network Settings window (see below) will open and ask you for extra settings (an encryption key in particular).

Click on Refresh to update the screen.

6.1.2. The Monitor button

This button allows you to watch the network activity, downloads (toward the PC, in red) and uploads (toward the Internet, in green). The same screen is available by right clicking on the Internet icon in the system tray -> Monitor Network.

There is a tab for each network (here eth0 is the wired network, lo the local loopback and wlan0 the wireless network) and a tab connection which gives details about connection status.



At the bottom of the window is a title Traffic accounting, we will look at that in the next section.

6.1.3. The Configure button

A - For a wired network

It is possible to change all the settings given during network creation. Most of the time, checking Automatic IP (BOOTP/DHCP) will do, but in case of problems, manual configuration may give better results.

For a residential network, the IP address always looks like 192.168.0.x, Netmask is 255.255.255.0, and the Gateway and DNS servers are available from your providers website.

Enable traffic accounting if checked this will count the traffic on a hourly, daily or monthly basis. The results are visible in the Network monitor detailed in the previous section. Once enabled, you may have to reconnect to the network.

Allow interface to be controlled by Network Manager:

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The button Advanced:

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B - For a wireless network

Only the items not already seen above are explained.

Operating mode:

Select Managed if the connection is via an access point, there is an **ESSID** detected. Select Ad-hoc if it is a peer to peer network. Select **Master** if your network card is used as the access point, your network card needs to support this mode.

Encryption mode and Encryption key:

If it is a private network, you need to know these settings.

WEP uses a password and is weaker than WPA which uses a passphrase. WPA Pre-Shared Key is also called WPA personal or WPA home. WPA Enterprise is not often used in private networks.

Allow access point roaming:

Roaming is a technology which enables allows computer to change its access point while remaining connected to the network.

The button Advanced:

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6.1.4. El botó dels paràmetres avançats

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6.2. Configura una interfície de xarxa nova (LAN, ISDN, ADSL...)

drakconnect

6.2.1. Introducció

Aquesta eina²⁰ permet configurar la major part de la xarxa local o connexió a Internet. Heu de conèixer una mica d'informació del vostre proveïdor d'accés o l'administrador de la xarxa.

Seleccioneu el tipus de connexió que desitjar establir, segons el tipus de maquinari i el tipus de proveïdor.

6.2.2. Una connexió nova amb fil (Ethernet)

1. La primera finestra enumera les interfícies que estan disponibles. Seleccioneu la que vulgueu configurar.
2. En aquest punt, l'elecció es dona entre una automàtica o una adreça IP manual.
3. IP automàtica.
 - a. *Paràmetres de xarxa/IP*: heu de seleccionar si els servidors DNS són declarats per servidor DHCP o s'especifiquen de forma manual, com s'explica a continuació. En l'últim cas, l'adreça IP dels servidors DNS s'ha d'establir. El nom d'amfitrió de l'ordinador es pot especificar aquí. Si no s'especifica HOSTNAME, el nom localhost.localdomain s'atribueix per defecte. El nom d'amfitrió també pot ser proporcionat pel servidor DHCP amb l'opció *Assignar un nom d'amfitrió del servidor DHCP*. No tots els servidors DHCP tenen una funció d'aquest tipus i si està configurant el seu PC per obtenir una adreça IP d'un encaminador domèstic ADSL, és poc probable.
 - b. El botó avançat dona l'oportunitat d'especificar:
 - Domini de cerca (no accessible, segons el que disposa pel servidor DHCP)
 - el client DHCP

²⁰Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **drakconnect** com a root.

-
- Temps esgotat DHCP
 - Utilitzeu el servidor YP des de DHCP (s'activa per defecte): especifiqueu el servidor NIS
 - Utilitzeu el servidor NTPD des de DHCP (sincronització de rellotge)
 - El HOSTNAME requerit per DHCP. Utilitzeu aquesta opció si el servidor DHCP requereix que el client especifiqui un nom d'amfitrió abans de rebre una adreça IP. Aquesta opció no és tractada per alguns servidors DHCP.
- c. Després d'acceptar, els últims passos que són comuns a tots els paràmetres de connexió s'expliquen: [Secció 6.2.11, "Acabant la configuració"](#)
4. Configuració manual
- a. *Configuració Ethernet/IP*: heu de declarar quins servidors DNS es volen utilitzar. El HOSTNAME de l'ordinador es pot especificar aquí. Si no s'especifica el HOSTNAME, el nom `localhost.localdomain` s'atribueix per defecte.
- For a residential network, the IP address usually looks like *192.168.x.x*, Netmask is *255.255.255.0*, and the Gateway and DNS servers are available from your service provider's website.
- Dins dels paràmetres avançats, podeu especificar un *domini de cerca*. En general, seria el vostre domini personal, és a dir, si el vostre ordinador es diu "splash", i el seu nom de domini complet és "splash.boatanchor.net", el domini de cerca seria "boatanchor.net". A menys que específicament es necessiti, no fa falta definir-ho. Un cop més, l'ADSL domèstica no necessitaria aquest paràmetre.
- b. Els propers passos estan exposats a [Secció 6.2.11, "Acabant la configuració"](#)

6.2.3. Una connexió nova de satèl·lit (DVB)

This section hasn't been written yet for lack of resources. If you think you can write this help, please contact [the Doc team](https://wiki.mageia.org/en/Documentation_team). [https://wiki.mageia.org/en/Documentation_team] Thanking you in advance.

6.2.4. Una connexió nova de mòdem per cable

1. La primera finestra enumera les interfícies que estan disponibles. Seleccioneu la que vulgueu configurar.
2. En aquest punt, l'elecció es dona entre una automàtica o una adreça IP manual.
3. Heu d'especificar un mètode d'autenticació:
 - Cap
 - BPALogin (necessari per a Telstra). En aquest cas, heu de proporcionar el nom d'usuari i contrasenya.
4. IP automàtica.
 - a. *Paràmetres del cable/IP*: heu de seleccionar si els servidors DNS són declarats pel servidor DHCP o s'especifiquen de forma manual, com s'explica a continuació. En l'últim cas, s'ha d'establir l'adreça IP dels servidors DNS. El nom d'amfitrió de l'ordinador es pot especificar aquí. Si no s'especifica el HOSTNAME, el nom `localhost.localdomain` s'atribueix per defecte. El nom d'amfitrió també pot ser proporcionat pel servidor DHCP amb l'opció *Assigna el nom d'amfitrió des del servidor DHCP*. No tots els servidors DHCP tenen una funció d'aquest tipus i si està configurant el vostre PC per obtenir una adreça IP d'un encaminador ADSL domèstic, és poc probable.
 - b. El botó avançat dona l'oportunitat d'especificar:
 - Domini de cerca (no accessible, segons el que disposa pel servidor DHCP)
 - el client DHCP
 - Temps esgotat DHCP
 - Utilitzeu el servidor YP des de DHCP (s'activa per defecte): especifiqueu el servidor NIS

-
- Utilitzi el servidor NTPD des de DHCP (sincronització de rellotge)
 - El HOSTNAME requerit per DHCP. Utilitzeu aquesta opció si el servidor DHCP requereix que el client especifiqui un nom d'amfitrió abans de rebre una adreça IP. Aquesta opció no és tractada per alguns servidors DHCP.
- c. Després d'acceptar, els últims passos que són comuns a tots els paràmetres de connexió s'expliquen: [Secció 6.2.11, “Acabant la configuració”](#)
5. Configuració manual
- a. *Paràmetres del cable/IP*: cal declarar els servidors DNS a utilitzar. El HOSTNAME de l'ordinador es pot especificar aquí. Si no s'especifica el HOSTNAME, el nom `localhost.localdomain` s'atribueix per defecte.
- For a residential network, the IP address usually looks like *192.168.x.x*, Netmask is *255.255.255.0*, and the Gateway and DNS servers are available from your service provider's website.
- Dins dels paràmetres avançats, podeu especificar un *domini de cerca*. En general seria el vostre domini personal, és a dir, si el vostre ordinador es diu "splash", i el seu nom de domini complet és "splash.boatanchor.net", el domini de cerca seria "boatanchor.net". A menys que específicament no ho necessiteu, no caldria definir aquest paràmetre. Un cop més, la connexió domèstica no necessitaria aquest paràmetre.
- b. Els propers passos estan exposats a [Secció 6.2.11, “Acabant la configuració”](#)

6.2.5. Una connexió nova ADSL

1. Si l'eina detecta interfícies de xarxa, ofereix selecciona una i configurar-la.
2. Es proposa una llista de proveïdors, classificats per països. Seleccioni el seu proveïdor. Si no apareix, seleccioni l'opció No llistades i després ingressi les opcions donades pel seu proveïdor.
3. Seleccionen un dels protocols disponibles:
 - DHCP (Dynamic Host Configuration Protocol)
 - Configuració TCP/IP manual
 - PPP sobre ADSL (PPPoA)
 - PPP sobre Ethernet (PPPoE)
 - Protocol de tunneling punt a punt (PPTP)
4. Paràmetres de l'accés
 - Compte d'accés (nom d'usuari)
 - Contrasenya del compte
 - (Avançat) Virtual Path ID (VPI)
 - (Avançat) Virtual Circuit ID (VCI)
5. Els propers passos estan exposats a [Secció 6.2.11, “Acabant la configuració”](#)

6.2.6. Una connexió nova XDSI

1. L'auxiliar us demana quin dispositiu s'ha de configurar:
 - Elecció manual (targeta XDSI interna)
 - Mòdem XDSI extern
2. Es proposa una llista de maquinari, classificats per categoria i fabricant. Seleccionen la seva targeta.
3. Seleccionen un dels protocols disponibles:

-
- Protocol per la resta del món, excepte Europa (DHCP)
 - Protocol for Europe (EDSS1)
4. A continuació s'ofereix una llista de proveïdors, classificats per països. Seleccioneu el seu proveïdor. Si no apareix, selecció l'opció No és a la llista i després ingresseu les opcions que el seu proveïdor li va donar. Després li demanarà paràmetres:
 - Nom de la connexió
 - Número de telèfon
 - ID d'entrada
 - Contrasenya del compte
 - Mètode d'autenticació
 5. Després d'això, heu de seleccionar si s'obté l'adreça IP pel mètode automàtic o manual. En l'últim cas, introduïu l'adreça IP i la màscara de subxarxa.
 6. El següent pas és triar com s'obtenen les adreces dels servidors DNS, pel mètode automàtic o manual. En el cas de la configuració manual, heu de posar:
 - Nom de domini
 - Primer i segon Servidor DNS
 - Selecciona si el nom de l'amfitrió està configurat des de la IP. Aquesta opció se selecciona únicament si esteu segur que el vostre proveïdor està configurat per acceptar-ho.
 7. El següent pas és triar la forma en què s'obté la direcció de la passarel·la, pel mètode automàtic o manual. En el cas de la configuració manual, ha d'introduir l'adreça IP.
 8. Els propers passos estan exposats a [Secció 6.2.11, "Acabant la configuració"](#)

6.2.7. Una connexió nova sense fil (Wi-Fi)

1. A first window lists the interfaces which are available and an entry for Windows driver (ndiswrapper). Select the one to configure. Use ndiswrapper only if the other configuration methods did not work.
2. At this step, the choice is given between the different access points that the card has detected.
3. Specific parameter for the wireless card are to provide:
 - Operating mode:
 - Gestionat To access to an existing access point (the most frequent).
 - Ad-Hoc To configure direct connection between computers.
 - Network Name (ESSID)
 - Encryption mode: it depends of how the access point is configured.
 - WPA/ This encryption mode is to prefer if your hardware allows it.
 - WPA2
 - WEP Some old hardware deals only this encryption method.
 - Clau de xifratge
 - It is generally provided with the hardware which give the access point.
4. At this step, the choice is given between an automatic IP address or a manual IP address.
5. IP automàtica.
 - a. *IP settings*: you have to select if DNS servers are declared by the DHCP server or are manually specified, as explained below. In the last case, IP address of DNS servers has to be set. The HOSTNAME of the computer can be specified here. If no HOSTNAME is specified, the name localhost.lo

caldomain is attributed by default. The Hostname can also be provided by the DHCP server with the option *Assign host name from DHCP server*

- b. El botó avançat dona l'oportunitat d'especificar:
 - Domini de cerca (no accessible, segons el que disposa pel servidor DHCP)
 - el client DHCP
 - Temps esgotat DHCP
 - Obtén el servidor YP mitjançant DHCP (marcat per defecte): especifiqueu els servidors NIS
 - Utilitzi el servidor NTPD des de DHCP (sincronització de rellotge)
 - El HOSTNAME requerit per DHCP. Utilitzeu aquesta opció si el servidor DHCP requereix que el client especifiqui un nom d'amfitrió abans de rebre una adreça IP. Aquesta opció no és tractada per alguns servidors DHCP.
 - c. After accepting the configuration the step, which is common to all connection configurations, is explained: [Secció 6.2.11, "Acabant la configuració"](#)
6. Configuració manual
- a. *IP settings*: you have to declare DNS servers. The HOSTNAME of the computer can be specified here. If no HOSTNAME is specified, the name `localhost.localdomain` is attributed by default.

For a residential network, the IP address always looks like *192.168.x.x*, Netmask is *255.255.255.0*, and the Gateway and DNS servers are available from your providers website.

In advanced settings, you can specified a *Search domain*. It must seem to your hostname without the first name, before the period.
 - b. Els propers passos estan exposalts a [Secció 6.2.11, "Acabant la configuració"](#)

6.2.8. Una connexió nova GPRS/Edge/3G

1. If the tool detects wireless interfaces, it offers to select one and to configure it.
2. The PIN is asked. Leave empty if the PIN is not required.
3. The wizard asks for network. If it is not detected, select the option Unlisted.
4. Es proposa una llista de proveïdors, classificats per països. Seleccioni el seu proveïdor. Si no apareix, seleccioni l'opció No llistades i després ingressi les opcions donades pel seu proveïdor.
5. Provide access settings
 - Nom del punt d'accés
 - Compte d'accés (nom d'usuari)
 - Contrasenya del compte
6. Els propers passos estan exposalts a [Secció 6.2.11, "Acabant la configuració"](#)

6.2.9. Una connexió nova de xarxa de marcatge directe de Bluetooth

This section hasn't been written yet for lack of resources. If you think you can write this help, please contact [the Doc team](https://wiki.mageia.org/en/Documentation_team). [https://wiki.mageia.org/en/Documentation_team] Thanking you in advance.

6.2.10. Una connexió nova de mòdem telefònic analògic (XTC)

1. L'auxiliar us demana quin dispositiu s'ha de configurar:
 - Selecció manual
 - Detected hardware, if any.

-
2. A list of ports is proposed. Select your port.
 3. If not yet installed, it will be suggested that you install the package *kppp-provider*.
 4. A list of providers is proposed, classified by countries. Select your provider. If it is not listed, select the option Unlisted and then enter the options your provider gave. Then it is asked for Dialup options:
 - *Connection name*
 - *Phone number*
 - *Login ID*
 - *Password*
 - *Authentication*, choose between:
 - PAP/CHAP
 - Basat en script
 - PAP
 - Basat en terminal
 - CHAP
 5. Els propers passos estan exposats a [Secció 6.2.11, “Acabant la configuració”](#)

6.2.11. Acabant la configuració

En el pas pròxim, pots especificar:

- *Permetre als usuaris gestionar la connexió*
- *Inicieu la connexió en l'arrencada*
- *Habilita el comptatge del trànsit*
- *Allow interface to be controlled by Network Manager*
- In the case of a wireless connection, a supplemental box is *Allow access point roaming* which give the possibility to switch automatically between access point according to the signal strength.

With the advanced button, you can specify:

- Metric (10 by default)
- MTU
- Connexió en calent de la xarxa
- Habilita el túnel d'IPv6 a IPv4

The last step allows you to specify if the connection is to start immediately or not.

6.3. Suprimeix una connexió

`drakconnect --del`

Aquí podeu suprimir una interfície de xarxa²¹.

Feu clic al menú desplegable, trieu el que vulgueu suprimir i després feu clic a *següent*.

Veureu un missatge que dirà que la interfície de xarxa s'ha suprimit correctament.

²¹També podeu iniciar aquesta eina des de la línia d'ordres, `drakconnect --del` com a root.

6.4. Servidor intermediari

drakproxy

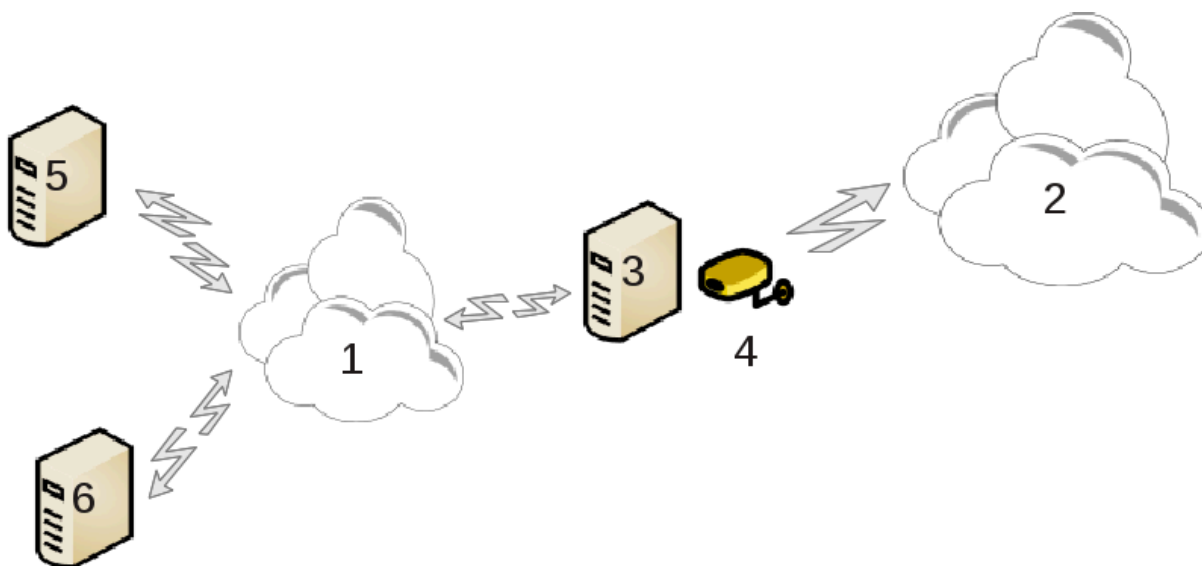
If you have to use a proxy server to access to the internet, you can use this tool²² to configure it. Your net administrator will give you the information you need. You can also specify some services which can be accessed without the proxy by exception.

From Wikipedia, on 2012-09-24, article Proxy server: In computer networks, a proxy server is a server (a computer system or an application) that acts as an intermediary for requests from clients seeking resources from other servers. A client connects to the proxy server, requesting some service, such as a file, connection, web page, or other resource available from a different server. The proxy server evaluates the request as a way to simplify and control their complexity.

6.5. Comparteix la connexió a internet amb altres màquines locals

drakgw

6.5.1. Principis



This is useful when you have a computer (3) which has Internet (2) access and is connected also to a local network (1). You can use computer (3) as a gateway to give that access to other workstations (5) and (6) in the local network (1). For this, the gateway must have two interfaces; the first one such as an ethernet card must be connected to the local network, and the second one (4) connected to the Internet (2).

The first step is to verify that the network and the access to Internet are set up, as documented in [Secció 6.1, “Centre de xarxes”](#).

6.5.2. Gateway wizard

The wizard²³ offers successive steps which are shown below:

- If the wizard does not detect at least two interfaces, it warns about this and asks to stop the network and configure the hardware.

²²You can start this tool from the command line, by typing **drakproxy** as root.

²³You can start this tool from the command line, by typing **drakgw** as root.

-
- specify the interface used for the Internet connection. The wizard automatically suggests one of the interfaces, but you should verify that what is proposed is correct.
 - specify which interface is used for the Lan access. The wizard also proposes one, check that this is correct.
 - The wizard proposes parameters for the Lan network, such as IP address, mask and domain name. Check that these parameters are compatible with the actual configuration. It is recommended that you accept these values.
 - specify if the computer has to be used as a DNS server. If yes, the wizard will check that `bind` is installed. Otherwise, you have to specify the address of a DNS server.
 - specify if the computer is to be used as a DHCP server. If yes, the wizard will check that `dhcp-server` is installed and offer to configure it, with start and end addresses in the DHCP range.
 - specify if the computer is to be used as a proxy server. If yes, the wizard will check that `squid` is installed and offer to configure it, with the address of the administrator (`admin@mydomain.com`), name of the proxy (`myfirewall@mydomaincom`), the port (3128) and the cache size (100 Mb).
 - The last step allows you to check if the gateway machine is connected to printers and to share them.

You will be warned about the need to check the firewall if it is active.

6.5.3. Configure the client

If you have configured the gateway machine with DHCP, you only need to specify in the network configuration tool that you get an address automatically (using DHCP). The parameters will be obtained when connecting to the network. This method is valid whatever operating system the client is using.

If you must manually specify the network parameters, you must in particular specify the gateway by entering the IP-address of the machine acting as the gateway.

6.5.4. Stop connection sharing

If you want to stop sharing the connection on the Mageia computer, launch the tool. It will offer to reconfigure the connection or to stop the sharing.

6.6. Administra diferents perfils de xarxa

Draknetprofile

6.6.1. Introducció

Each network interface of a Mageia system is initially configured with a fix set of parameters. This corresponds to what is expected by a user of a desktop computer, but may not be adequate when the system is moved between various network environments: having the system run in different network environments will require that multiple configurations co-exist for a given network device - otherwise the interface might need to be re-configured each time the network environment changes.

6.6.1.1. Perfils

Linux provides support for multiple configurations of network devices as a standard feature. The notion of a "**network profile**" refers to a set of configurations of network devices, defined for a specific network environment. Each network profile has a **name** - the initial configuration that comes out of system generation has the name "*default*"; when a new profile is created, a name must be specified which is different from all already existing profile names.

6.6.1.2. Draknetprofile

Draknetprofile is a - very simple - component of the Mageia Control Center (MCC), it provides a Graphical User Interface (GUI) for managing profiles. This GUI allows to

- switch between profiles - i.e. activate a target profile to become the "current profile",
- create a new, additional profile,
- delete a profile from the list of defined profiles.

6.6.2. Running Draknetprofile

6.6.2.1. Defining profiles, profile switching

Defining/modifying profiles concerns the entire Linux system and all its users. Running draknetprofile therefore requires root privileges. Normally, launching is achieved from within MCC (which already runs as root):

Figure 1: Mageia Control Center: Network & Internet tab

1. launch the MCC by hitting the MCC icon in one of the panels of your desktop,
2. select the "Network & Internet" tab,
3. hit "Manage different network profiles" in the "Personalize and Secure your network" Section (solid red contour in Figure 1).

Draknetprofile can also be launched by a command-line instruction from a terminal emulator with root privileges (this may be helpful when standard-output or error-output from draknetprofile needs to be consulted - for instance for debugging). Simply type:

```
draknetprofile
```

After the launch, the main page of Draknetprofile will be displayed:

Figure 2: Management actions of Draknetprofile

The upper zone of the window contains the list of the names of all presently defined profiles. The bottom zone presents a series of buttons:

- "Activate" ... establish the selected profile (top zone of the window) as the current profile (and save the properties of the old profile);
- "New" ... create a new profile;
- "Delete" ... delete the selected profile from the list of defined profiles;
- "Quit" ... exit from Draknetprofile.

Before hitting the "Activate" or the "Delete" button, you have to select a profile from the list: select it by a left-button click on the name of the target profile.

Hitting the "New" button will launch an auxiliary window where you can type the name of the profile you want to create; this name must be different from any already existing profile. This profile will be created as a precise copy of the currently active profile and immediately activated as the current profile. You will probably then need to specify its properties (modify the automatically created configuration) in a second, independent action:

- exit from Draknetprofile (hit the "Quit" button),
- back in the "Network & Internet" tab, you select the tab "Set up a new network interface (...)" (marked with dashed red contour in Figure 1),
- you then go through the steps for configuring the interface; they are similar to those you did for configuring the original interface during system generation - as documented in the [Drakconnect manual](#).

The middle zone of the window is normally hidden, hit the "Advanced" button to make it visible. It should display the list of names of Draknetprofile "**modules**" (such as "network", "firewall", "urpmi"), each with a check-button next to the name; these check-buttons determine whether the properties controlled by that module are included into the profile or not.

6.6.2.2. Using a system that has more than one profile

In a system where several profiles are defined, an additional user interaction is required when the system boots: at the very end of the bootstrapping activities - just before the Desktop Environment starts - you will get a message like

```
Select network profile: (1) default (2) roaming*
```

Type 1 or 2 to select the "default", respectively the "roaming" profile, or carriage-return to select the profile that is marked with an asterisk (the profile that was active when the system had been shut down).

Presently (Mageia-5) there appears to be an intermittent problem: it happens that the system becomes unresponsive after soliciting the user to select a profile. The only way out of this situation is to launch another boot. This problem is under investigation.

6.6.3. Appendix: Files relevant to Draknetprofile

The configuration data of network interfaces are stored in the directory `/etc/sysconfig/network-scripts/`, in files with names like `ifcfg-xxx`.

The name of the currently active profile is maintained in the file `/etc/netprofile/current`.

6.7. Configure VPN Connection to secure network access

drakvpn

6.7.1. Introducció

This tool²⁴ allows to configure secure access to a remote network establishing a tunnel between the local workstation and the remote network. We discuss here only of the configuration on the workstation side. We assume that the remote network is already in operation, and that you have the connection information from the network administrator, like a `.pcf` configuration file.

6.7.2. Configuració

First, select either Cisco VPN Concentrator or OpenVPN, depending on which protocol is used for your virtual private network.

Then give your connection a name.

At the next screen, provide the details for your VPN connection.

- For Cisco VPN
- For openvpn. The openvpn package and its dependencies will be installed the first time the tool is used.

Select the files that you received from the network administrator.

²⁴You can start this tool from the command line, by typing `drakvpn` as root.

Advanced parameters:

The next screen asks for IP-address of the gateway.

When the parameters are set, you have the option of starting the VPN connection.

This VPN connection can be set to start automatically with a network connection. To do this, reconfigure the network connection to always connect to this VPN.

6.8. Definicions dels amfitrions

drakhosts

If some systems on your network grant you services, and have fixed IP-addresses, this tool²⁵ allows to specify a name to access them more easily. Then you can use that name instead of the IP-address.

Add

With this button, you add the name for a new system. You will get a window to specify the IP-address, the host name for the system, and optionally an alias which can be used in the same way that the name is.

Modify

You can access the parameters of an entry previously defined. You get the same window.

7. Sistema

In this screen you can choose between several system and administration tools. Click on a link below to learn more.

1. *Administra els serveis del sistema*
 - a. [Secció 7.1, “Autenticació”](#)
 - b. [Secció 7.2, “Gestiona els serveis de sistema activant-los o desactivant-los”](#)
 - c. [Secció 7.3, “Gestiona, afegeix i suprimeix lletres. Importa lletres de Windows \(TM\)”](#)
2. *Localització*
 - a. [Secció 7.4, “Gestiona la data i l'hora”](#)
 - b. [Secció 7.5, “Gestiona la localització del sistema”](#)
3. *Eines d'administració*
 - a. [Secció 7.6, “Visualitza i cerca els registres del sistema”](#)
 - b. [Secció 7.7, “Obre una consola com a administrador”](#)
 - c. [Secció 7.8, “Usuaris i grups”](#) = *Manage users on system*
 - d. [Secció 7.9, “Importa documents i paràmetres de Windows\(TM\)”](#)

7.1. Autenticació

drakauth

²⁵You can start this tool from the command line, by typing **drakhosts** as root.

Aquesta eina²⁶ li permet modificar la manera en què pot ser reconegut com a usuari de la màquina o en la xarxa.

Per defecte, la informació per la seva autenticació s'emmagatzema en un arxiu en el seu ordinador. Modifica-ho solament si l'administrador de la xarxa el convida a fer-ho i li dona informació al respecte.

7.2. Gestiona els serveis de sistema activant-los o desactivant-los

drakxservices

This page hasn't been written yet for lack of resources. If you think you can write this help, please contact [the Doc team](https://wiki.mageia.org/en/Documentation_team). [https://wiki.mageia.org/en/Documentation_team] Thanking you in advance.

You can start this tool from the command line, by typing **drakxservices** as root.

7.3. Gestiona, afegeix i suprimeix lletres. Importa lletres de Windows (TM)

drakfont

This tool²⁷ is present in the Mageia Control Center under the **System** tab. It allows you to manage the fonts available on the computer. The main screen above shows:

- the installed font names, styles and sizes.
- a preview of the selected font.
- some buttons explained here later.

Get Windows Fonts:

This button automatically adds the fonts found on the Windows partition. You must have Microsoft Windows installed.

Options:

It allows you to specify the applications or devices (printers mostly) able to use the fonts.

Uninstall:

This button is to remove installed fonts and possibly save some place. Be careful when removing fonts because it may have serious consequences on the documents that use them.

Import:

Allows you to add fonts from a third party (CD, internet, ...). The supported formats are ttf, pfa, pfb, pcf, pfm and gsf. Click on the **Import** button and then on **Add**, a file manager pops up where you can select the fonts to install, click on **Install** when done. They are installed in the folder /usr/share/fonts.

If the newly installed (or removed) fonts doesn't appear in the Drakfont main screen, close and re open it to see the modifications.

7.4. Gestiona la data i l'hora

drakclock

²⁶Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **drakauth** com a root.

²⁷You can start this tool from the command line, by typing **drakfont** as root.

Aquesta eina²⁸ es troba sota la pestanya Sistema al centre de control de Mageia amb l'etiqueta "Administra la data i l'hora". En alguns entorns d'escriptori també ho trobem disponible fent clic al botó dret / Ajusteu data i hora ... en el rellotge de la safata del sistema.

És una eina molt senzilla.

A la part superior esquerra, trobem el **calendari**. A la captura de pantalla anterior, la data es Setembre (a la part superior esquerra), el segon (en blau) i és diumenge. Seleccioneu el mes (o l'any) fent clic a les petites fletxes a cada costat de Setembre (o 2012). Seleccioneu el dia fent clic en el seu número.

A la part inferior esquerra hi ha la sincronització del **Protocol de Temps de Xarxa**, és possible tenir un rellotge sempre a temps mitjançant la sincronització amb un servidor. Marqueu Habilita Protocol de Temps de Xarxa i trieu el servidor més proper.

A la part dreta hi ha el **rellotge**. És inútil ajustar el rellotge si NTP està activat. Tres caixes mostren les hores, minuts i segons (15, 28 i 22 a la captura de pantalla). Fer servir les fletxes per ajustar el rellotge a l'hora correcta. El format no pot canviar-se aquí, veure la configuració de l'entorn de l'escriptori per això.

Almenys, a la part inferior dreta, seleccioneu la vostra zona horària, feu clic al botó Canviar Zona Horària i selecciona a la llista la ciutat més propera.



Fins i tot si no és possible seleccionar un format de data o hora en aquesta eina, es mostrarà a l'escriptori d'acord amb la configuració de localització.

7.5. Gestiona la localització del sistema

localedrake

This tool²⁹ can be found in the System section of the Mageia Control Center (MCC) labelled "Manage localization for your system". It opens with a window in which you can choose your language. The choice is adapted to languages selected during installation.

The Advanced button give access to activate compatibility with old encoding (non UTF8).

The second window shows a list of countries according to the selected language. The button Other Countries gives access to countries not listed.

You have to restart your session after any modifications.

7.5.1. Mètode d'entrada

In the Other Countries screen you can also select an input method (from the drop-down menu at the bottom of the list). Input methods allow users to input multilingual characters (Chinese, Japanese, Korean, etc).

For Asian and African locales, IBus will be set as default input method so users should not need to configure it manually.

Other input methods (SCIM, GCIN, HIME, etc.) also provide similar functions and can, if not available from the drop-down menu, be installed in another part of the Mageia Control Center. See [Secció 2.1, "Software Management \(Install and Remove Software\)"](#).

²⁸Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **drakclock** com a root.

²⁹You can also start this tool from the command line, by typing **localedrake** as root.

7.6. Visualitza i cerca els registres del sistema

logdrake

This tool³⁰ is found in the Mageia Control Center System tab, labelled "View and search system logs".

7.6.1. To do a search in the logs

First, enter the key string you want to look for in the **Matching** field and/or the key string you want to *do not* wish to see amongst the answers in the field **but not matching**. Then select the file(s) to search in the Choose file field. Optionally, it is possible to limit the search to only one day. Select it in the **Calendar**, using the little arrows on each side of the month and year, and check "Show only for the selected day". At last, click on the search button to see the results in the window called Content of the file. It is possible to save the results in the .txt format by clicking on the **Save** button.



The Mageia Tools Logs houses the logs from the Mageia configuration tools such as the Mageia Control Center tools. These logs are updated each time a configuration is modified.

7.6.2. To configure a mail alert

Mail alert automatically checks the system load and the services every hour and if necessary sends an e-mail to the configured address.

To configure this tool, click on the **Mail Alert** button and then, in the next screen, on the Configure the mail alert system drop down button. Here, all the running services are displayed and you can choose which ones you want to look watch. (See screenshot above).

The following services can be watched :

- Servei Webmin
- Servidor de correu Postfix
- Servidor FTP
- Servidor World Wide Web Apache
- Servidor SSH
- Servidor Samba
- Servei Xinetd
- BIND Domain Name Resolve

In the next screen, select the Load value you consider unacceptable. The load represents the demand to a process, a high load slows the system down and a very high load may indicate that a process has gone out of control. The default value is 3. We recommend setting the load value to 3 times the number of processors.

In the last screen, enter the Email address of the person to be warned and the Email server to use (local or on the Internet).

7.7. Obre una consola com a administrador

drakconsole

³⁰You can start this tool from the command line, by typing **logdrake** as root.

This tool³¹ gives you access to a console which is directly opened as root. We do not think that you need more information about that.

7.8. *Usuaris i grups*

userdrake

This tool³² is found under the **System** tab in the Mageia Control Center labelled "Manage users on system"

The tool allows an administrator to manage the users and the groups, this means to add or delete a user or group and to modify user and group settings (ID, shell, ...)

When userdrake is opened, all the users existing on the system are listed in the Users tab, and all the groups in the Groups tab. Both tabs operate the same way.

1 Add User

This button opens a new window with all fields shown empty:

The field **Full Name** is intended for the entry of a family name and first name, but it is possible to write anything or nothing as well!

Login is the only required field.

Setting a **Password** is highly recommended. There is a little shield on the right, if it is red, the password is weak, too short or is too similar to the login name. You should use figures, lower and upper case characters, punctuation marks, etc. The shield will turn orange and then green as the password strength improves.

Confirm Password field is there to ensure you entered what you intended to.

Login Shell is a drop down list that allows you to change the shell used by the user you are adding, the options are Bash, Dash and Sh.

Create a private group for the user, if checked will automatically create a group with the same name and the new user as the only member (this may be edited).

The other options should be obvious. The new user is created immediately after you click on OK.

2 Add Group

You only need to enter the new group name, and if required, the specific group ID.

3 Edit (a selected user)

User Data: Allows you to modify all the data given for the user at creation (the ID can't be changed).

Account Info:

The first option is for setting an expiration date for the account. Connection is impossible after this date. This is useful for temporary accounts.

The second option is to lock the account, connection is impossible as long as the account is locked.

It is also possible to change the icon.

³¹You can start this tool from the command line, by typing **drakconsole** as root.

³²You can start this tool from the command line, by typing **userdrake** as root.

Password Info: Allows you to set an expiration date for the password, this forces the user to change his password periodically.

Group: Here you can select the groups that the user is a member of.



If you are modifying a connected user account, modifications will not be effective until his/her next login.

4 Edit (with a group selected)

Group Data: Allows you to modify the group name.

Group Users: Here you can select the users who are members of the group

5 Delete

Select a user or a group and click on **Delete** to remove it. For a user, a window appears to ask if home directory and mailbox must also be deleted. If a private group has been created for the user, it will be deleted as well.



It is possible to delete a group which is not empty.

6 Refresh

The User database can be changed outside of Userdrake. Click on this icon to refresh the display.

7 Guest Account

guest is a special account. It is intended to give somebody temporary access to the system with total security. Login is xguest, there is no password, and it is impossible to make modifications to the system from this account. The personal directories are deleted at the end of the session. This account is enabled by default, to disable it, click in the menu on Actions -> Uninstall guest account.

7.9. Importa documents i paràmetres de Windows(TM)

transfugdrake

This tool³³ is found under the **System** tab in the Mageia Control Center labeled Import Windows(TM) documents and settings

The tool allows an administrator to import the user documents and settings from a Windows® 2000, Windows® XP or Windows® Vista™ installation on the same computer as the Mageia installation.



Please note that all the changes will be applied by transfugdrake immediately after pressing Next.

After starting transfugdrake you will see the first wizard page with some explanation about the tool and import options.

³³You can start this tool from the command line, by typing **transfugdrake** as root.

As soon as you read and understand the instructions, press the Next button. This should run a detection of Windows® installation.

When the detection step is complete you will see a page which allows you to choose accounts in Windows® and Mageia for the import procedure. It is possible to choose other user account than yours own.



Please take into account that due to migrate-assistant (the backend of transfugdrake) limitations Windows® user account names with special symbols can be displayed incorrectly.



Migration may take some time depending on the size of the document folders.



Some Windows® applications (especially drivers) may create user accounts for different purposes. For example, NVidia drivers in Windows® are updated using *UpdatusUser*. Please do not use such accounts for the import purposes.

When you finished with the accounts selection press Next button. The next page is used to select a method to import documents:

Transfugdrake is designed to import Windows® data from *My Documents*, *My Music* and *My Pictures* folders. It is possible to skip import by selecting the appropriate item in this window.

When you finished with the document import method choosing press Next button. The next page is used to select a method to import bookmarks:

Transfugdrake can import *Internet Explorer* and *Mozilla Firefox* bookmarks into the bookmarks of Mageia *Mozilla Firefox* instance.

Choose the preferred import option and press the Next button.

The next page allows you to import desktop background:

Choose the preferred option and press the Next button.

The last page of wizard shows some congratulation message. Just press the Finish button.

7.10. Instantànies

draksnapshot-config

This tool³⁴ is available in MCC's System tab, in the Administration tools section.

When you start this tool in MCC for the first time, you will see a message about installing draksnapshot. Click on Install to proceed. Draksnapshot and some other packages it needs will be installed.

³⁴You can start this tool from the command line, by typing **draksnapshot-config** as root.

Click again on Snapshots, you will see the Settings screen. Tick Enable Backups and, if you want to backup the whole system, Backup the whole system.

If you only want to backup part of your directories, then choose Advanced. You will see a little pop-up screen. Use the Add and Remove buttons next to the Backup list to include or exclude directories and files from the backup. Use the same buttons next to the Exclude list to remove subdirectories and/or files from the chosen directories, that should **not** be included in the backup. Click on Close when you are done.

Now give the path to Where to backup, or choose the Browse button to select the correct path. Any mounted USB-key or external HD can be found in `/run/media/your_user_name/`.

Click on Apply to make the snapshot.

8. Compartició en xarxa

In this screen you can choose between several tools for sharing drives and directories. Click on a link below to learn more.

1. *Configura les comparticions Windows(R)*
 - a. [Secció 8.1, “Accedeix a discs i directoris compartits amb Windows \(SMB\)”](#)
 - b. [Secció 8.2, “Share directories and drives with Samba”](#) = *Share drives and directories with Windows (SMB) systems*
2. *Configura les comparticions NFS*
 - a. [Secció 8.3, “Accedeix a un disc o un directori NFS compartit”](#)
 - b. [Secció 8.4, “Comparteix discs o directoris mitjançant NFS”](#)
3. *Configura les comparticions WebDAV*
 - a. [Secció 8.5, “Accedeix a dispositius i directoris compartits WebDAV”](#)

8.1. Accedeix a discs i directoris compartits amb Windows (SMB)

`diskdrake --smb`

8.1.1. Introducció

Aquesta eina³⁵ permet declarar que va compartir directoris per a ser accessibles a tots els usuaris de la màquina. El protocol utilitzat per això és SMB que s'ha popularitzat als sistemes Windows(R). El directori compartit estarà disponible directament en l'arrencada. Es pot accedir als directoris compartits directament en una sola sessió per un usuari amb les eines com ara l'explorador de fitxers.

Abans d'iniciar l'eina, és una bona idea declarar els noms dels servidors disponibles, per exemple amb [Secció 6.8, “Definicions dels amfitrions”](#)

8.1.2. Procediment

Seleccioneu buscar servidors per obtenir una llista de servidors que comparteixen directoris.

Feu clic al nom del servidor i en > abans que el nom del servidor per mostrar la llista dels directoris compartits i seleccioneu el directori el qual vol accedir.

El botó Punt de muntatge estarà disponible, ha d'especificar on muntar el directori.

³⁵Podeu iniciar aquesta eina des de la línia d'ordres, escrivint `diskdrake --smb` com a root.

Després d'escollir el punt de muntatge, es pot muntar amb el botó Muntar. També pot verificar i canviar algunes opcions amb el botó Opcions.

En opcions, podeu especificar el nom d'usuari i la contrasenya dels que poden connectar-se al servidor SMB. Després de muntar el directori, pots desmuntar el directori amb el mateix botó.

Després d'acceptar la configuració amb el botó Llest, un missatge us preguntarà "Voleu deixar les modificacions a /etc/fstab". Això permetrà al directori romandre disponible a cada arrancada, si la xarxa és accessible.

8.2. Share directories and drives with Samba

draksambashare

8.2.1. Introducció

Samba is a protocol used in different Operating Systems to share some resources like directories or printers. This tool allows you to configure the machine as a Samba server using the protocol SMB/CIFS. This protocol is also used by Windows(R) and workstations with this OS can access the resources of the Samba server.

8.2.2. Preparació

To be accessed from other workstations, the server has to have a fixed IP address. This can be specified directly on the server, for example with [Secció 6.1, "Centre de xarxes"](#), or at the DHCP server which identifies the station with its MAC-address and give it always the same address. The firewall has also to allow the incoming requests to the Samba server.

8.2.3. Wizard - Standalone server

At the first run, the tools ³⁶ checks if needed packages are installed and proposes to install them if they are not yet present. Then the wizard to configure the Samba server is launched.

In the next window the Standalone server configuration option is already selected.

Then specify the name of the workgroup. This name should be the same for the access to the shared resources.

The netbios name is the name which will be used to designate the server on the network.

Choose the security mode:

- user: the client must be authorized to access the resource
- share: the client authenticates itself separately for each share

You can specify which hosts are allowed to access the resources, with IP address or host name.

³⁶You can start this tool from the command line, by typing **draksambashare** as root.

Specify the server banner. The banner is the way this server will be described in the Windows workstations.

The place where Samba can log information can be specified at the next step.

The wizard displays a list of the chosen parameters before you accept the configuration. When accepted, the configuration will be written in `/etc/samba/smb.conf`.

8.2.4. Wizard - Primary domain controller

If the "Primary domain controller" option is selected, the wizard asks for indication if Wins is to support or not and to provide admin users names. The following steps are then the same as for standalone server, except you can choose also the security mode:

- **domain:** provides a mechanism for storing all user and group accounts in a central, shared, account repository. The centralized account repository is shared between (security) controllers.

8.2.5. Declare a directory to share

With the Add button, we get:

A new entry is thus added. It can be modified with the Modify button. Options can be edited, such as whether the directory is visible to the public, writable or browseable. The share name can not be modified.

8.2.6. Entrades del menú

When the list has at least one entry, menu entries can be used.

File|Write conf. Save the current configuration in `/etc/samba/smb.conf`.

Samba server|Configure. The wizard can be run again with this command.

Samba server|Restart. The server is stopped and restarted with the current configuration files.

Samba Server|Reload. The configuration displayed is reloaded from the current configuration files.

8.2.7. Printers share

Samba also allows you to share printers.

8.2.8. Samba users

In this tab, you can add users who are allowed to access the shared resources when authentication is required. You can add users from [Secció 7.8, "Usuaris i grups"](#)

8.3. Accedeix a un disc o un directori NFS compartit

diskdrake --nfs

8.3.1. Introducció

Aquesta eina ³⁷ permet declarar alguns directoris compartits per ser accessibles a tots els usuaris de la màquina. El protocol utilitzat per això és NFS que està disponible a la majoria de sistemes Linux o UNIX. El directori compartit serà així directament a l'arrencada. Directoris compartits poden ser també accessibles directament en una única sessió amb les eines com ara els exploradors de fitxers.

8.3.2. Procediment

Seleccioneu buscar servidors per obtenir una llista de servidors que comparteixen directoris.

Feu clic al símbol > abans que el nom del servidor per mostrar la llista de directoris compartits i seleccioneu el directori al qual voleu accedir.

El botó Punt de muntatge estarà disponible i cal especificar el lloc per muntar el directori.

Després d'escollir el punt de muntatge, el podeu muntar. També podeu verificar i canviar algunes opcions amb el botó Opcions. Després de muntar el directori, podeu desmuntar-ho amb el mateix botó.

En acceptar la configuració amb el botó D'acord, apareixerà un missatge en pantalla, preguntant "Voleu deixar les modificacions a /etc/fstab". Això farà el directori disponible a cada arrancada, si la xarxa és accessible. El nou directori estarà disponible en l'explorador de fitxers, per exemple al Dolphin.

8.4. Comparteix discs o directoris mitjançant NFS

draknfs

8.4.1. Prerequisits

When the wizard³⁸ is launched for the first time, it may display the following message:

The package nfs-utils needs to be installed. Do you want to install it?

After completing the installation, a window with an empty list is displayed.

8.4.2. Finestra principal

Es mostra una llista de directoris que són compartits. En aquest pas, la llista es buida. El botó Afegeix dona accés a una eina de configuració.

8.4.3. Modifica l'entrada

L'eina de configuració s'anomena "Modificar les dades". També es pot posar en marxa amb el botó Modificar. Els següents paràmetres estan disponibles.

³⁷Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **diskdrake --nfs** com a root.

³⁸You can start this tool from the command line, by typing **draknfs** as root.

8.4.3.1. Directori NFS

Aquí podeu especificar quin directori es va compartir. El botó Directori dona accés a un navegador per seleccionar-ho.

8.4.3.2. Accés a l'amfitrió

Aquí podeu especificar els amfitrions que estan autoritzats per accedir al directori compartit.

Els clients NFS poden especificar-se en un nombre de maneres:

únic amfitrió: un amfitrió, ja sigui per un àlies reconegut, el nom del domini complet o una adreça IP.

netgroups: NIS netgroups may be given as @group.

wildcards: machine names may contain the wildcard characters * and ?. For instance: *.cs.foo.edu matches all hosts in the domain cs.foo.edu.

IP networks: you can also export directories to all hosts on an IP (sub-)network simultaneously. For example, either ``/255.255.252.0'` or ``/22'` appended to the network base address.

8.4.3.3. Assignació de l'id. d'usuari

map root user as anonymous: maps requests from uid/gid 0 to the anonymous uid/gid (root_squash). The root user from the client cannot read or write to the files on the server which are created by root on the server itself.

allow real remote root access: turn off root squashing. This option is mainly useful for diskless clients (no_root_squash).

map all users to anonymous user: maps all uids and gids to the anonymous user (all_squash). Useful for NFS-exported public FTP directories, news spool directories, etc. The opposite option is no user UID mapping (no_all_squash), which is the default setting.

anonuid and anongid: explicitly set the uid and gid of the anonymous account.

8.4.3.4. Opcions avançades

Secured Connection: this option requires that requests originate on an internet port less than IP-PORT_RESERVED (1024). This option is on by default.

Read-Only share: allow either only read or both read and write requests on this NFS volume. The default is to disallow any request which changes the filesystem. This can also be made explicit by using this option.

Synchronous access: prevents the NFS server from violating the NFS protocol and to reply to requests before any changes made by these requests have been committed to stable storage (e.g. disc drive).

Subtree checking: enable subtree checking which can help improve security in some cases, but can decrease reliability. See exports(5) man page for more details.

8.4.4. Entrades del menú

Fins ara la llista té almenys una entrada.

8.4.4.1. File|Write conf

Save the current configuration.

8.4.4.2. NFS Server|Restart

The server is stopped and restarted with the current configuration files.

8.4.4.3. NFS Server/Reload

The configuration displayed is reloaded from the current configuration files.

8.5. Accedeix a dispositius i directoris compartits WebDAV

diskdrake --dav

Aquesta eina³⁹ es troba al centre de control de Mageia, sota la pestanya Compartició en xarxa, amb l'etiqueta Configura les comparticions WebDAV.

8.5.1. Introducció

[WebDAV](http://en.wikipedia.org/wiki/WebDAV) [http://en.wikipedia.org/wiki/WebDAV] és un protocol que permet muntar el directori d'un servidor web localment, de manera que aparegui com un directori local. Cal que l'equip remot executi un servidor WebDAV. Això no és l'objectiu d'aquesta eina per configurar el servidor WebDAV.

8.5.2. S'està creant una nova entrada

La primera pantalla de l'eina mostra les entrades que estan configurades, si escau, i un botó Nou. S'utilitza per crear una entrada. Introduïu l'URL del servidor en el camp de la nova pantalla.

Aleshores obtindreu una pantalla amb els botons de les opcions per seleccionar algunes accions. Continueu amb l'acció Punt de muntatge en fer clic al botó D'acord després de seleccionar el botó d'opció, com el Servidor ja està configurat. No obstant això, és possible corregir-ho, si cal.

El contingut del directori remot serà accessible a través d'aquest punt de muntatge.

En el següent pas, doneu el vostre nom d'usuari i la vostra contrasenya. Si necessiteu algunes altres opcions, podeu donar-les a la pantalla avançat.

L'opció Munta us permet muntar immediatament l'accés.

Després que accepteu la configuració amb el botó d'opció Llest, la primera pantalla es mostra de nou i el vostre nou punt de muntatge es llista. Després de triar Sortir, us demanarà si voleu o no desar les modificacions al */etc/fstab*. Seleccioneu aquesta opció si voleu que el directori remot estigui disponible en cada arrancada. Si la configuració és per a l'ús d'una sola vegada, no la deseu.

9. Discs locals

In this screen you can choose between several tools to manage or share your local disks. Click on a link below to learn more.

Discs locals

1. [Secció 9.1, “Gestiona les particions de disc”](#)
2. [Secció 9.2, “Enregistrador CD/DVD”](#)
3. [Secció 9.3, “Comparteix les particions del disc dur”](#)

9.1. Gestiona les particions de disc

drakdisk o diskdrake

³⁹Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **diskdrake --dav** com a root.



This tool⁴⁰ is very powerful, a tiny error or a cat jumping on your keyboard can lead to losing all data on a partition or even to erasing the entire hard disk. For that reason, you'll see the screen above on top of the tool screen. Click on *Exit* if you're not sure you want to continue.

If you have more than one hard disk, you can switch to the hard disk you want to work on by selecting the correct tab (sda, sdb, sdc etc).

You can choose from many actions to adjust your hard disk to your preferences. Wiping an entire hard disk, splitting or merging partitions, resizing them or changing the filesystem, formatting or viewing what is in a partition: it is all possible. The *Clear all* button at the bottom is to erase the complete disk, the other buttons become visible on the right after you click on a partition.



If you have an UEFI system, you can see a small partition called "EFI System Partition" and mounted on /boot/EFI. Never delete it, because it contains all your different operating systems bootloaders.

If the selected partition is mounted, like in the example below, you cannot choose to resize, format or delete it. To be able to do that the partition must be unmounted first.

It is only possible to resize a partition on its right side

To change a partition type (change ext3 to ext4 for example) you have to delete the partition and then re-create it with the new type. The button Create appears when a disk empty part is selected

You can choose a mount point that doesn't exist, it will be created.

Selecting *Toggle to expert mode* gives some extra available actions, like labeling the partition, as can be seen in the screenshot below.

9.2. Enregistrador CD/DVD

`diskdrake --removable`

Aquesta eina⁴¹ es troba sota la pestanya dels discs locals al centre de control de Mageia etiquetats d'acord amb el maquinari extraïble (només reproductors CD/DVD i gravadores i unitats de disquets).

El seu objectiu és definir la forma en què es munta el disc extraïble.

A la part superior de la finestra hi ha una breu descripció del maquinari i les opcions triades per muntar-lo. Utilitzeu el menú de la part inferior per canviar-los. Marqueu l'element que voleu canviar i després feu clic al botó D'acord.

9.2.1. Punt de muntatge

Marqueu aquesta opció per canviar el punt de muntatge. L'opció per defecte és /media/cdrom.

⁴⁰You can start this tool from the command line, by typing **drakdisk** or **diskdrake** as root.

⁴¹Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **diskdrake --removable** com a root.

9.2.2. Opcions

Moltes opcions de muntatge es poden triar aquí, sigui directament a la llista o mitjançant el submenú Avançat. Els principals són:

9.2.2.1. user/nouser

usuari permet que un usuari normal (no root) pugui muntar un disc extraïble, aquesta opció implica noexec, nosuid i nodev. L'usuari que ha muntat el disc és l'únic que pot desmuntar-lo.

9.3. Comparteix les particions del disc dur

diskdrake --fileshare

Aquesta eina senzilla ⁴² us permet, a l'administrador, que els usuaris comparteixin parts dels seus propis subdirectoris de /home amb altres usuaris d'una mateixa xarxa local que poden tenir ordinadors executant Linux o el sistema operatiu Windows.

Es troba al centre de control de Mageia, sota l'etiqueta de disc local, etiquetada com "Comparteix les vostres particions del disc dur".

En primer lloc, responeu a la pregunta: "Voleu que els usuaris puguin compartir alguns dels seus directoris?", feu clic a No compartir, si la resposta és no per a tots els usuaris, feu clic a Permet a tots els usuaris per a tots els usuaris i feu clic a Personalitzat, si la resposta és no per alguns usuaris i sí per als altres. En aquest últim cas, els usuaris que estan autoritzats a compartir els seus directoris han de pertànyer al grup fileshare, que es crea automàticament al sistema. Se us demanarà sobre això més endavant.

Feu clic a D'acord, us apareixerà una segona pantalla que us demanarà que trieu entre NFS o SMB. Marqueu NFS si Linux és l'únic sistema operatiu a la xarxa, marqueu SMB si la xarxa inclou màquines Linux i Windows i després feu clic a D'acord. S'instal·laran els paquets requerits si és necessari.

The configuration is now complete unless the Custom option was chosen. In this case, an extra screen prompts you to open Userdrake. This tool allows you to add users authorised to share their directories to the fileshare group. In the User tab, click on the user to add to the fileshare group, then on Edit, In the Groups tab. Check the fileshare group and click on OK. For more information about Userdrake, see: [Secció 7.8, "Usuaris i grups"](#)



Quan afegiu un nou usuari al grup fileshare, heu de desconnectar i tornar a connectar la xarxa per a les modificacions que s'han de tenir en compte.

A partir d'ara cada usuari que pertanyi al grup fileshare pot seleccionar en el seu/seva gestió de fitxers els directoris que siguin per compartir, encara que no tots els administradors d'arxius disposen d'aquest servei.

10. Seguretat

In this screen you can choose between several security tools. Click on a link below to learn more.

Seguretat

1. [Secció 10.1, "MSEC: Sistema de seguretat i auditoria"](#) = *Configure system security, permissions and audit*

⁴²Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **diskdrake --fileshare** com a root.

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2. [Secció 10.2, “Configura el tallafoc personal”](#)
 3. [Secció 10.3, “Configura l'autenticació per les eines de Mageia”](#)
 4. [Secció 10.4, “Configuració avançada de les interfícies de xarxa i del tallafoc”](#)
 5. [Secció 10.5, “Control patern”](#)

10.1. MSEC: Sistema de seguretat i auditoria

msecgui

10.1.1. Presentació

msecgui⁴³ is a graphic user interface for msec that allows to configure your system security according to two approaches:

- It sets the system behaviour, msec imposes modifications to the system to make it more secure.
- It carries on periodic checks automatically on the system in order to warn you if something seems dangerous.

msec uses the concept of "security levels" which are intended to configure a set of system permissions, which can be audited for changes or enforcement. Several of them are proposed by Mageia, but you can define your own customised security levels.

10.1.2. Overview tab

See the screenshot above

The first tab takes up the list of the different security tools with a button on the right side to configure them:

- Firewall, also found in the MCC / Security / Set up your personal firewall
- Updates, also found in MCC / Software Management / Update your system
- msec itself with some information:
 - enabled or not
 - the configured Base security level
 - the date of the last Periodic checks and a button to see a detailed report and another button to execute the checks just now.

10.1.3. Security settings tab

A click on the second tab or on the Security Configure button leads to the same screen shown below.

10.1.3.1. Basic security tab

Security levels:

After having checked the box Enable MSEC tool, this tab allows you by a double click to choose the security level that appears then in bold. If the box is not checked, the level « none » is applied. The following levels are available:

1. Level **none**. This level is intended if you do not want to use msec to control system security, and prefer tuning it on your own. It disables all security checks and puts no restrictions or constraints on system

⁴³You can start this tool from the command line, by typing **msecgui** as root.

configuration and settings. Please use this level only if you are knowing what you are doing, as it would leave your system vulnerable to attack.

2. Level **standard**. This is the default configuration when installed and is intended for casual users. It constrains several system settings and executes daily security checks which detect changes in system files, system accounts, and vulnerable directory permissions. (This level is similar to levels 2 and 3 from past msec versions).
3. Level **secure**. This level is intended when you want to ensure your system is secure, yet usable. It further restricts system permissions and executes more periodic checks. Moreover, access to the system is more restricted. (This level is similar to levels 4 (High) and 5 (Paranoid) from old msec versions).
4. Besides those levels, different task-oriented security are also provided, such as the **fileserver**, **webserver** and **netbook** levels. Such levels attempt to pre-configure system security according to the most common use cases.
5. The last two levels called **audit_daily** and **audit_weekly** are not really security levels but rather tools for periodic checks only.

These levels are saved in `/etc/security/msec/level.<levelname>`. You can define your own customised security levels, saving them into specific files called `level.<levelname>`, placed into the folder `/etc/security/msec/`. This function is intended for power users which require a customised or more secure system configuration.



Keep in mind that user-modified parameters take precedence over default level settings.

Security alerts:

If you check the box Send security alerts by email to:, the security alerts generated by msec are going to be sent by local e-mail to the security administrator named in the nearby field. You can fill either a local user or a complete e-mail address (the local e-mail and the e-mail manager must be set accordingly). At last, you can receive the security alerts directly on your desktop. Check the relevant box to enable it.



It is strongly advisable to enable the security alerts option in order to immediately inform the security administrator of possible security problems. If not, the administrator will have to regularly check the logs files available in `/var/log/security`.

Security options:

Creating a customised level is not the only way to customise the computer security, it is also possible to use the tabs presented here after to change any option you want. Current configuration for msec is stored in `/etc/security/msec/security.conf`. This file contains the current security level name and the list of all the modifications done to the options.

10.1.3.2. System security tab

This tab displays all the security options on the left side column, a description in the centre column, and their current values on the right side column.

To modify an option, double click on it and a new window appears (see screenshot below). It displays the option name, a short description, the actual and default values, and a drop down list where the new value can be selected. Click on the OK button to validate the choice.



Do not forget when leaving msecgui to save definitively your configuration using the menu File -> Save the configuration. If you have changed the settings, msecgui allows you to preview the changes before saving them.

10.1.3.3. *Seguretat de la xarxa*

This tab displays all the network options and works like the previous tab

10.1.3.4. *Periodic checks tab*

Periodic checks aim to inform the security administrator by means of security alerts of all situations msec thinks potentially dangerous.

This tab displays all the periodic checks done by msec and their frequency if the box Enable periodic security checks is checked. Changes are done like in the previous tabs.

10.1.3.5. *Exceptions tab*

Sometimes alert messages are due to well known and wanted situations. In these cases they are useless and wasted time for the administrator. This tab allows you to create as many exceptions as you want to avoid unwanted alert messages. It is obviously empty at the first msec start. The screenshot below shows four exceptions.

To create an exception, click on the Add a rule button

Select the wanted periodic check in the drop down list called Check and then, enter the Exception in the text area. Adding an exception is obviously not definitive, you can either delete it using the Delete button of the Exceptions tab or modify it with a double click.

10.1.3.6. *Permisos*

This tab is intended for file and directory permissions checking and enforcement.

Like for the security, msec owns different permissions levels (standard, secure, ..), they are enabled accordingly with the chosen security level. You can create your own customised permissions levels, saving them into specific files called `perm.<levelname>` placed into the folder `/etc/security/msec/`. This function is intended for power users which require a customised configuration. It is also possible to use the tab presented here after to change any permission you want. Current configuration is stored in `/etc/security/msec/perms.conf`. This file contains the list of all the modifications done to the permissions.

Default permissions are visible as a list of rules (a rule per line). You can see on the left side, the file or folder concerned by the rule, then the owner, then the group and then the permissions given by the rule. If, for a given rule:

- the box Enforce is not checked, msec only checks if the defined permissions for this rule are respected and sends an alert message if not, but does not change anything.
- the box Enforce is checked, then msec will rule the permissions respect at the first periodic check and overwrite the permissions.



For this to work, the option CHECK_PERMS in the **Periodic check tab** must be configured accordingly.

To create a new rule, click on the Add a rule button and fill the fields as shown in the example below. The joker * is allowed in the File field. "current" means no modification.

Click on the OK button to validate the choice and do not forget when leaving to save definitively your configuration using the menu File -> Save the configuration. If you have changed the settings, msecgui allows you to preview the changes before saving them.



It is also possible to create or modify the rules by editing the configuration file `/etc/security/msec/perms.conf`.



Changes in the **Permission tab** (or directly in the configuration file) are taken into account at the first periodic check (see the option CHECK_PERMS in the **Periodic checks tab**). If you want them to be taken immediately into account, use the msecperms command in a console with root rights. You can use before, the msecperms -p command to know the permissions that will be changed by msecperms.



Do not forget that if you modify the permissions in a console or in a file manager, for a file where the box Enforce is checked in the **Permissions tab**, msecgui will write the old permissions back after a while, accordingly to the configuration of the options CHECK_PERMS and CHECK_PERMS_ENFORCE in the **Periodic Checks tab**.

10.2. Configura el tallafoc personal

drakfirewall

This tool⁴⁴ is found under the Security tab in the Mageia Control Center labelled "Set up your personal firewall". It is the same tool in the first tab of "Configure system security, permissions and audit".

A basic firewall is installed by default with Mageia. All the incoming connections from the outside are blocked if they aren't authorised. In the first screen above, you can select the services for which outside connection attempts are accepted. For your security, uncheck the first box - Everything (no firewall) - unless you want to disable the firewall, and only check the needed services.

It is possible to manually enter the port numbers to open. Click on Advanced and a new window is opened. In the field Other ports, enter the needed ports following these examples :

80/tcp : open the port 80 tcp protocol

24000:24010/udp : open all the ports from 24000 to 24010 udp protocol

The listed ports should be separated by a space.

If the box Log firewall messages in system logs is checked, the firewall messages will be saved in system logs

⁴⁴You can start this tool from the command line, by typing **drakfirewall** as root.



If you don't host specific services (web or mail server, file sharing, ...) it is completely possible to have nothing checked at all, it is even recommended, it won't prevent you from connecting to the internet.

The next screen deals with the Interactive Firewall options. These feature allow you to be warned of connection attempts if at least the first box Use Interactive Firewall is checked. Check the second box to be warned if the ports are scanned (in order to find a failure somewhere and enter your machine). Each box from the third one onwards corresponds to a port you opened in the two first screens; in the screenshot below, there are two such boxes: SSH server and 80:150/tcp. Check them to be warned each time a connection is attempted on those ports.

These warning are given by alert popups through the network applet.

In the last screen, choose which network interfaces are connected to the Internet and must be protected. Once the OK button is clicked, the necessary packages are downloaded.



If you don't know what to choose, have a look in MCC tab Network & Internet, icon Set up a new network interface.

10.3. Configura l'autenticació per les eines de Mageia draksec

This tool⁴⁵ is present in the Mageia Control Center under the tab **Security**

It allows to give the regular users the needed rights to accomplish tasks usually done by the administrator.

Click on the little arrow before the item you want to drop down:

Most of the tools available in the Mageia Control Center are displayed in the left side of the window (see the screenshot above) and for each tool, a drop down list on the right side gives the choice between:

- Default: The launch mode depends on the chosen security level. See in the same MCC tab, the tool "Configure system security, permissions and audit".
- User password: The user password is asked before the tool launching.
- Administrator password: The root password is asked before the tool launching
- No password: The tool is launched without asking any password.

10.4. Configuració avançada de les interfícies de xarxa i del tallafoc drakinictus

This page hasn't been written yet for lack of resources. If you think you can write this help, please contact [the Doc team](https://wiki.mageia.org/en/Documentation_team). [https://wiki.mageia.org/en/Documentation_team] Thanking you in advance.

You can start this tool from the command line, by typing **drakinictus** as root.

⁴⁵You can start this tool from the command line, by typing **draksec** as root.

10.5. Control patern

drakguard

This tool⁴⁶ is found in the Mageia Control Center, under the Security tab, labelled Parental Control. If you don't see this label, you have to install the drakguard package (not installed by default).

10.5.1. Presentació

Drakguard is an easy way to set up parental controls on your computer to restrict who can do what, and at which times of day. Drakguard has three useful capabilities:

- It restricts web access to named users to set times of day. It does this by controlling the shorewall firewall built into Mageia.
- It blocks execution of particular commands by named users so these users can only execute what you accept them to execute.
- It restricts access to websites, both manually defined through blacklists/whitelists, but also dynamically based on the content of the website. To achieve this Drakguard uses the leading opensource parental control blocker DansGuardian.

10.5.2. Configuring Parental controls



If your computer contains hard drive partitions that are formatted in Ext2, Ext3, or ReiserFS format you will see a pop up offering to configure ACL on your partitions. ACL stands for Access Control Lists, and is a Linux kernel feature that allows access to individual files to be restricted to named users. ACL is built into Ext4 and Btrfs file systems, but must be enabled by an option in Ext2, Ext3, or Reiserfs partitions. If you select 'Yes' to this prompt drakguard will configure all your partitions to support ACL, and will then suggest you reboot.

Enable parental control: If checked, the parental control is enabled and the access to Block programs tab is opened.

Block all network traffic: If checked, all the websites are blocked, except the ones in the whitelist tab. Otherwise, all the websites are allowed, except the ones in the blacklist tab.

User access: Users on the left hand side will have their access restricted according to the rules you define. Users on the right hand side have unrestricted access so adult users of the computer are not inconvenienced. Select a user in the left hand side and click on Add to add him/her as an allowed user. Select an user in the right hand side and click on Remove to remove him/her from the allowed users.

Time control: If checked, internet access is allowed with restrictions between the Start time and End time. It is totally blocked outside these time window.

10.5.2.1. Blacklist/Whitelist tab

Enter the website URL in the first field at the top and click on the Add button.

10.5.2.2. Block Programs Tab

Block Defined Applications: Enables the use of ACL to restrict access to specific applications. Insert the path to the applications you wish to block.

Unblock Users list: Users listed on the right hand side will not be subject to acl blocking.

⁴⁶You can start this tool from the command line, by typing **drakguard** as root.

11. Arrencada

In this screen you can choose between several tools to configure your boot steps. Click on a link below to learn more.

Configura els passos de l'arrencada

1. [Secció 11.1, “Configura l'entrada automàtica per entrar automàticament”](#)
2. [Secció 11.2, “Configura el sistema d'arrencada”](#)
3. [Secció 11.3, “Configura el gestor de pantalla”](#)

11.1. Configura l'entrada automàtica per entrar automàticament

drakautologin

Aquesta eina⁴⁷ li permet connectar-se al mateix usuari, si el seu entorn / escriptori, sense demanar cap contrasenya. Es diu autoconnexió. Això és generalment una bona idea quan només hi ha un usuari que utilitzi la màquina.

Es troba sota la pestanya d'*Arrencada* al centre de control de Mageia amb l'etiqueta "Configura l'entrada automàtica per entrar automàticament".

Els botons de la interfície són bastant òbvies:

Marqueu Inicia l'entorn gràfic quan el sistema s'inicia, si voleu que el sistema X Windows s'executi després de reiniciar. Si no és així, el sistema s'iniciarà en mode text. No obstant això, serà possible iniciar la interfície gràfica manualment. Això es pot fer amb el llançament de 'startx' o 'systemctl start dm'.

Si la primera casella està activada, hi ha dues opcions més disponibles, marqueu o bé No, no vull autoconnexió, si voleu que el sistema continuï preguntant quin usuari connectar (i la contrasenya) o bé seleccioneu Sí, vull autoconnexió amb aquest (usuari, escriptori), si cal. En aquest cas, també és necessari proveir el nom per defecte i l'escriptori per defecte.

11.2. Configura el sistema d'arrencada

drakboot

If you are using a UEFI system instead of BIOS, the user interface is slightly different as the boot device is obviously the EFI system Partition (ESP).

This tool⁴⁸ allows you to configure the boot options (choice of the bootloader, set a password, the default boot, etc.)

It is found under the Boot tab in the Mageia Control Center labeled "Set up boot system".



No utilitzeu aquesta eina si no sabeu exactament el que feu. La modificació d'alguns paràmetres poden evitar que la vostra màquina s'iniciï de nou!

In the first part, called Bootloader, it is possible if using BIOS, to choose which Bootloader to use, Grub, Grub2 or Lilo, and with a graphical or a text menu. It is just a question of taste, there are no other consequences.

⁴⁷You can start this tool from the command line, by typing **drakautologin** as root.

⁴⁸Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **drakboot** com a root.

You can also set the Boot device, don't change anything here unless you are an expert. The boot device is where the bootloader is installed and any modification can prevent your machine from booting.

In a UEFI system, the bootloader is Grub2-efi and is installed in /boot/EFI partition. This FAT32 formatted partition is common to all operating systems installed.

In the second part, called Main options, you can set the Delay before booting default image, in seconds. During this delay, Grub or Lilo will display the list of available operating systems, prompting you to make your choice. If no selection is made, the bootloader will boot the default one once the delay elapses.

In the third and last part, called Security, it is possible to set a password for the bootloader. This means a username and password will be asked at the boot time to select a booting entry or change settings. The username is "root" and the password is the one chosen here.

El botó Avançat ofereix algunes opcions extremes.

Habilita ACPI:

L'ACPI (Advanced Configuration and Power Interface) és un estàndard per la gestió de l'energia. Es pot estalviar energia parant dispositius no utilitzats, aquest va ser el mètode abans de l'APM. Marqueu aquesta casella si el vostre maquinari funciona amb l'ACPI.

Habilita SMP:

SMP stands for Symmetric Multi Processors, it's an architecture for multicore processors.



Si teniu un processador amb HyperThreading, Mageia ho veurà com un processador dual i habilitarà SMP.

Enable APIC and Enable Local APIC:

APIC stands for Advanced Programmable Interrupt Controller. There are two components in the Intel APIC system, the local APIC (LAPIC) and the I/O APIC. The latter one routes the interrupts it receives from peripheral buses to one or more local APICs that are in the processor. It is really useful for multi-processor systems. Some computers have problems with the APIC system which can cause freezes or incorrect device detection (error message "spurious 8259A interrupt: IRQ7"). In this case, disable APIC and/or Local APIC.

The Next screen differs depending on which boot loader you chose.

- You have Grub Legacy or Lilo:

In this case, you can see the list of all the available entries at boot time. The default one is asterisked. To change the order of the menu entries, click on the up or down arrows to move the selected item. If you click on the Add or Modify buttons, a new window appears to add a new entry in the bootloader menu or to modify an existing one. You need to be familiar with Lilo or Grub to be able to use these tools.

L'etiqueta és de forma lliure, escriviu aquí el que vulgueu que es mostri al menú. Coincideix amb l'ordre "title" del Grub. Per exemple: Mageia3.

El camp Imatge conté el nom del kernel. Coincideix amb l'ordre de Grub "kernel". Per exemple /boot/vmlinuz.

El camp Root conté el nom del dispositiu en el qual s'emmagatzema el kernel. Coincideix amb l'ordre de Grub "root". Per exemple (hd0,1).

El camp Annexa conté les opcions que han de donar-se al kernel en l'arrencada.

Si la casella Predeterminat està marcada, Grub arrencarà aquesta entrada per defecte.

In the extra screen called Advanced, it is possible to choose the Video mode, an initrd file and a network profile, see [Section 6.6, “Administra diferents perfils de xarxa”](#), in the drop-down lists.

- You have Grub2 or Grub2-efi (boot loaders used by default respectively in Legacy mode and UEFI mode):

In this case, the drop-down list labelled Default displays all the available entries; click on the one wanted as the default one.

El camp Annexa conté les opcions que han de donar-se al kernel en l'arrencada.

If you have other operating systems installed, Mageia attempts to add them to your Mageia boot menu. If you don't want this behaviour, uncheck the box Probe Foreign OS

In the extra screen called Advanced, it is possible to choose the Video mode. If you don't want a bootable Mageia, but to chain load it from another OS, check the box Do not touch ESP or MBR and accept the warning.



Not installing on ESP or MBR means that the installation is not bootable unless chain loaded from another OS.

To set many other parameters, you can use the tool named *Grub Customizer*, available in the Mageia repositories (see below).

11.3. Configura el gestor de pantalla

drakedm

Here⁴⁹ you can choose which display manager to use to log into your desktop environment. Only the ones available on your system will be shown.

Most users will only notice that the provided login screens look different. However, there are differences in supported features, too. LXDM is a lightweight display manager, SDDM and GDM have more extras.

12. Other Mageia Tools

There are more Mageia tools than those that can be started in the Mageia Control Center. Click on a link below to learn more, or continue reading the next pages.

1. [Secció 12.1, “Mageia Bug Report Tool”](#)*drakbug*
2. [Secció 12.2, “Collect Logs and System Information for Bug Reports”](#)*drakbug_report*
3. [Secció 12.3, “Display Available NFS And SMB Shares”](#)*TO BE WRITTEN*
4. [Secció 12.4, “Display Your PCI, USB and PCMCIA Information”](#)
5. And more tools?

⁴⁹You can start this tool from the command line, by typing **drakedm** as root.

12.1. Mageia Bug Report Tool

drakbug

En general, aquesta eina⁵⁰ s'inicia automàticament quan una eina a Mageia falla. No obstant això, també és possible que, després de presentar un informe d'error, se li demanarà per iniciar aquesta eina per comprovar algunes de les informacions que dona i, a continuació, establir l'informe d'error existent.

Si un nou informe d'error ha de ser presentat i no esteu acostumat a fer això, aleshores si us plau, llegiu [Com informar d'un error correctament](https://wiki.mageia.org/en/How_to_report_a_bug_properly) [https://wiki.mageia.org/en/How_to_report_a_bug_properly] abans de fer clic al botó "Informar".

En cas que l'error ja s'hagi presentat per algú altre (aleshores, el missatge d'error que va donar drakbug serà el mateix), és útil per afegir un comentari a aquest informe existent on també vàreu veure l'error.

12.2. Collect Logs and System Information for Bug Reports

drakbug_report

Aquesta eina⁵¹ només pot ser iniciada i utilitzada a la línia d'ordres.

Es recomana escriure la sortida d'aquesta ordre a un arxiu, per exemple fent **drakbug_report > drakbugreport.txt**, però segur de tindre prou espai al disc en primer lloc: l'arxiu fàcilment pot ocupar diversos GB de grandària.



La sortida és massa gran per adjuntar un informe d'error sense suprimir-ne primer les parts que no siguin necessàries.

Amb aquesta ordre es recopila la següent informació del vostre sistema:

- lspci
- pci_devices
- dmidecode
- fdisk
- scsi
- /sys/bus/scsi/devices
- lsmod
- cmdline
- pcmcia: stab
- usb
- particions
- cpuinfo
- syslog
- Xorg.log
- monitor_full_edid
- stage1.log

⁵⁰Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **drakbug**.

⁵¹Podeu iniciar aquesta eina des de la línia d'ordres, escrivint **drakbug_report** com a root.

-
- ddebug.log
 - install.log
 - fstab
 - modprobe.conf
 - lilo.conf
 - grub: menu.lst
 - grub: install.sh
 - grub: device.map
 - xorg.conf
 - urpmi.cfg
 - modprobe.preload
 - sysconfig/i18n
 - /proc/iomem
 - /proc/ioport
 - versió de mageia
 - rpm -qa
 - df



Quan es va escriure aquesta pàgina d'ajuda, la part de la sortida del "syslog" estava buida, ja que aquesta eina encara no s'havia ajustat al nostre canvi al systemd. Si encara està buida, podeu recuperar el "syslog" fent (com a root) **journalctl -a > journalctl.txt**. Si no teniu una gran quantitat d'espai en disc, per exemple podeu agafar les últimes 5.000 línies del registre amb: **journalctl -a | tail -n5000 > journalctl5000.txt**.

12.3. Display Available NFS And SMB Shares

lsnetdrake

This tool ⁵² can only be started and used on the command line.

This page hasn't been written yet for lack of resources. If you think you can write this help, please contact [the Documentation team](https://wiki.mageia.org/en/Documentation_team). [https://wiki.mageia.org/en/Documentation_team] Thanking you in advance.

12.4. Display Your PCI, USB and PCMCIA Information

lspcidrake

This tool ⁵³ can only be started and used on the command line. It will give some more information if used under root.

lspcidrake gives the list of all the connected devices to the computer (USB, PCI and PCMCIA) and the used drivers. It needs the lsdetect and lsdetect-1st packages to work.

With the -v option, lspcidrake adds the vendor and device identifications.

lspcidrake often generates very long lists, so, to find an information, it is often used in a pipeline with the grep command, like in these examples:

⁵²You can start this tool from the command line, by typing **lsnetdrake**.

⁵³You can start this tool from the command line, by typing **lspcidrake**.

Information about the graphic card;

lspcidrake | grep VGA

Information about the network

lspcidrake | grep -i network

-i to ignore case distinctions.

In this screenshot below, you can see the action of the -v option for lspcidrake and the -i option for grep.

There is another tool that gives information about the hardware, it is called **dmidecode** (under root)