Mageia NetInstall

########Mageia###



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It was written by volunteers in their free time. Please contact the <u>Documentation Team</u> [https://wiki.mageia.org/en/ Documentation_team], if you would like to help improve this manual.

Mageia NetInstall

##

Installing Mageia using a Tiny Boot Image	. 1
1. Introduction	. 1
1.1. NetInstall Media	. 1
1.2. Installation Stages	. 1
2. Stage 1 (Pre-installation Stage)	. 2
2.1. Boot	2
2.2. Installation Method	. 3
2.3. Network Connection	. 6
2.4. Mirrors	. 8
3. Stage 2 (Installation Stage)	11
3.1. ##########	11
3.2. ########	13
3.3. ##SCSI	13
3.4. ######	14
3.5. ##	14
3.6. Partitioning	15
3.7. Software	23
3.8. User Management	29
3.9. Graphical Configuration	31
3.10. Bootloader	34
3.11. Configuration Summary	37
3.12. Locale	40
3.13. ####	42
3.14. ####	43
3.15. ####	44
3.16. ####	45
3.17. Firewall	46
3.18. ##	47
3.19. ##	48
3.20. ##Mageia	48
-	

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1.	BIOS Welcome Screen	2
2.	UEFI Welcome Screen	3
3.	EFI System Partition	21
4.	BIOS boot partition	21

Installing Mageia using a Tiny Boot Image

1. Introduction

1.1. NetInstall Media

1.1.1. Description

These minimal ISO's contain:

- less than 100 MB and are convenient if bandwidth is too low to download a full DVD, or if you have a PC without a DVD drive or unable to boot from a USB stick.
- no more than that which is needed to a) start the DrakX installer and b) find DrakXinstaller-stage2 and other packages that are needed to continue and complete the install.

The required source packages may be on a PC hard disk, a local drive, a local network or on the Internet.



Installation via encrypted wifi or bluetooth is not supported.

1.1.2. Availability

There a two versions of the NetInstall media:

- **netinstall.iso** For those who prefer not to use non-free software, this ISO contains only free software.
- **netinstall-nonfree.iso** This ISO additionally includes proprietary device drivers, which may be required for your network device, disk controller, etc.

Both versions are available in the form of separate 32-bit and 64-bit ISO's. See here: <u>https://www.mageia.org/downloads/</u>

1.1.3. Preparation

After downloading the image, burn it to a CD/DVD or, if you prefer to put it on a USB stick, follow the instructions here: <u>https://wiki.mageia.org/en/</u><u>Installation_Media#Dump_Mageia_ISOs_on_an_USB_stick</u>

1.2. Installation Stages

The installation is carried out in two stages:

- **Stage 1** This is the pre-Installation stage. You will need to provide the method and details for accessing the medium containing the files to be used for the installation. If the method involves a server, then the network connection will be activated.
- **Stage 2** This is the actual Installation stage, which will automatically commence once a connection to the installer files has been established.



During Stage 1, nothing will be written to your Hard Disk, so it is safe to quit at any point during Stage 1 if you wish. You can do so by pressing **Ctrl+Alt+Del**.



You can use **Alt+F3** to read the logs and **Alt+F1** to return to the installer screen.



Unlike when installing from DVD or LiveCD, during the first part of the installation (**Stage 1**), you will be asked to type things. During this stage, your keyboard will operate as per an <u>American keyboard</u> [https://en.wikipedia.org/wiki/Keyboard_layout#United_States] layout. This can be very confusing when you need to type names and paths.

2. Stage 1 (Pre-installation Stage)

2.1. Boot

The particular Welcome Screen that you will see when booting with the NetInstall media depends on whether you are booting on a BIOS or UEFI system. See the following two screenshots:

Welcome to Mageia install help In most cases, the best way to get started is to simply press the (Enter) key. If you experience problems with standard install, try one of the following install types (type the highlighted text and press (Enter)): o text for text installation instead of the graphical one. o linux for standard graphical installation at normal resolution. o linux vga=785 for low resolution graphical installation. To repair an already installed system type rescue followed by (Enter). You can also pass some (specific kernel options) to the Linux kernel. For example, try linux noapic if your system has trouble operating your network adapter correctly. NOTE: You cannot pass options to modules (SCSI, ethernet card) or devices such as CD-ROM drives in this way. If you need to do so, use noauto mode. [F1-Help1 [F2-Advanced Help1] boot: _

1. BIOS Welcome Screen

When booting up, you can choose to read the advanced help by pressing **F2** and return to the installer screen by pressing **F1**. Otherwise, the boot will continue with default settings.



2. UEFI Welcome Screen

• Use the arrow keys to highlight Start Mageia Install and then press **Enter**.

For both BIOS and UEFI systems, you will then see a pop-up notification saying that USB devices are being detected:



2.2. Installation Method

You can now choose an installation method via CDROM/HDD or Server (NFS, FTP or HTTP).

You also have the option to load third-party modules at this point.



- Move up or down the list using the arrow keys until the appropriate method of installation is highlighted.
- Press the **Tab** key until Ok is highlighted and then press **Enter**.

2.2.1. Server

- If you don't know what to choose for a Network Installation, choose FTP server.
- On an enterprise network, FTP and rsync may be blocked, so using HTTP server is a good choice in this case.

After choosing any of the server options you will automatically proceed to the <u>Network</u> <u>Connection</u> section.

2.2.2. CDROM/HDD

If you choose to install from either a CDROM or hard disk (or USB stick), a scan for storage devices will be performed:



• First, select the relevant hard drive (or USB stick)



• Followed by the relevant partition



• Then specify the directory or the file name of the ISO

Leaving this open, or using the directory is easier, because the installer then presents you with a list of directories and files from which you can make your selection using the up and down arrows, as seen in the second of the following images.





Once the information has been provided for the location of the ISO, either on CDROM or HDD, you will automatically proceed to $\frac{\text{Stage 2}}{\text{Stage 2}}$ (the actual installation stage).

2.2.3. Load Third-Party Modules

If you wish to Load third-party modules, then you will be asked for the location of the directory containing the modules:



2.3. Network Connection

2.3.1. Connection Device

If you chose any of the server options at the Installation Method step, you will then be asked to choose a network device:



2.3.2. Connection Type

Now you need to choose whether the network device will use a DHCP, Static or ADSL connection:



If you are unsure which option is suitable, then you should probably accept the default option (DHCP).

2.3.3. Host/Domain Names

If necessary, you can now supply your Host and Domain names:



• If you are unsure what this means then you can just leave the fields blank, highlight Ok and press **Enter** to proceed. The network connection will now be activated.

If you are using either FTP or HTTP, you will automatically proceed to the Mirrors section

If you are using NFS, you will be asked for the NFS server name and the directory containing the Mageia distribution:

P	ease fill in entries	
Please enter the name or IP address of your NFS server, and the directory containing the Mageia Distribution.		
NFS server name Mageia directory		
Ok	Ca	ncel

After entering the NFS details, you will automatically proceed to <u>Stage 2</u> (the actual installation stage).

2.4. Mirrors

If using FTP or HTTP, you now have to specify a mirror to use. This can be done manually or by choosing from a list



2.4.1. Specify Manually

You will find a list of all available mirrors here: http://mirrors.mageia.org/

Whichever mirror you choose, it should use the same tree-like structure from "mageia" (or "Mageia") as used by the official Mageia mirrors. That means .../mageia/ distrib/<version>/<arch>

A correct entry (when using an official mirror) in the Mageia directory field below, could be:

pub/linux/mageia/distrib/cauldron/i586

Another example (for Mageia 6 x86_64) could be:

pub/Mirrors/Mageia/distrib/6/x86_64

Other mirrors may have a different path structure and the screenshots below show such examples:

If you are using an FTP server:

Please fill in entries		
Please enter the name or IP address of the FTP server, the directory containing the Mageia Distribution, and the login/pass if necessary (leave login blank for anonymous).		
FTP serverftp.belnet.be_Mageia directory/mirror/mageia/distrib/6/x86_64LoginPassword		
Ok Cance 1		

If you are using an HTTP server:



Once this information has been provided, you will automatically proceed to <u>Stage 2</u> (the actual installation stage).

2.4.2. Select From a List



After choosing an FTP server, you will see a screen where you can optionally add a login name and password if required.

Please fill in entries			
Please enter the name or IP address of the FTP server, the directory containing the Mageia Distribution, and the login/pass if necessary (leave login blank for anonymous).			
FTP server ftp.belnet.be			
Mageia directory /mirror/mageia/distrib/6/x86_64			
Login			
Ok Cancel			

Once this information has been provided, you will automatically proceed to <u>Stage 2</u> (the actual installation stage).

3. Stage 2 (Installation Stage)

Nothing has been written to your hard disk at this point. Therefore, if you decide not to proceed with the actual installation, then it is safe to reboot now: go to tty2 with **Ctrl+Alt+F2** and press **Ctrl+Alt+Del** (or **Ctrl+Alt+F7** to come back if you change your mind).

3.1.

- Select your preferred language, by first expanding the list for your continent. Mageia will use this selection during the installation and for your installed system.
- If it is likely that you (or others) will require several languages to be installed on your system, then you should use the Multiple languages option to add them now. It will be difficult to add extra language support after installation.

Ö mageia	PLEASE CHOOSE A LANGUAGE	TO USE		
INSTALLATION Language • License • Partitioning • Installing • CONFIGURATION Users • Summary •		ಕನನ್ಡ ಗಾಮ್ಗಣಕ್ 11 11 11 11 11 日本語 ਪਜਾਬੀ தமிழ் ತೆಲುಗು 1 ਅಲ		
Exit	 Africa Europe 	繁體中文 简体中文	•	
	 Multiple languages Help 			Next



Even if you choose more than one language, you must first choose one as your preferred language from the main list of languages. It will also be marked as chosen in the Multiple languages screen.

- If your keyboard language is not the same as your preferred language, then it is advisable to install the required language for your keyboard as well
- Mageia uses UTF-8 (Unicode) support by default. This may be disabled in the Multiple languages screen if you know that it is inappropriate for your language. Disabling UTF-8 applies to all installed languages.
- You can change the language for your system post-installation in the Mageia Control Center → System → localization for your system.

3.2.

Ömageja	
安装 语言 • 许可 • 分区 • 安装 • 配置 用户 • 摘要 • 再称	许可协议 简介 Mageia 发行版中提供的操作系统和各种程序在此后简称为"本软件产品"。软件产品包括 但不限于 Mageia 许可商或供应商提供的与 Mageia 发行版的操作系统和各个部分有关的 程序、方法、规则和文档。 1. 许可协议 请仔细阅读此文档。此文档是您与 Mageia 之间关于本软件产品的一个许可协议。如果您 安装、复制或使用本软件产品,即表明您接受并完全同意遵守本许可协议的内容和条件。如 果您不同意本许可协议中的任何部分,您将无权安装、复制或使用本软件产品任何试图不遵 守本许可协议赋予您的各种权利立即作废,根据许可协议的条款,您将必须立即销毁本软件产 品的任何副本。 2. 有限担保
退出。	您接受此许可协议吗?
	▶帮助 退出 下一步

3.2.1.

- Before installing Mageia, please read the license terms and conditions carefully.
- These terms and conditions apply to the entire Mageia distribution and must be accepted before you can continue.
- To proceed, simply select Accept and then click on Next

If you decide not to accept these conditions, then we thank you for your interest in Mageia. Clicking Quit will reboot your computer.

3.2.2.

Important information about this particular Mageia release can be viewed by clicking on the Release Notes button.

3.3. ##SCSI

DrakX will normally detect hard disks correctly. However, with some older SCSI controllers it may be unable to determine the correct drivers to use and subsequently fail to recognise the drive.

If your device is not recognised, you will need to manually tell DrakX which SCSI drive(s) you have. DrakX should then be able to configure the drive(s) correctly.

3.4.

Ömageig	
o j .	安装/升级
安装 语言 ● 许可 ● 分区 ● 安装 ● 配 1 用户 ● 摘要 ● 更新 ● 退出 ●	现在要新装还是升级? 升级 Mageia (Cauldron) (sda5) 5 升级 Mageia (Official) (sda7) 4 升级 Mageia (Cauldron) (sda10) 5 升级 Mageia (Cauldron) (sda12) 5 文表
Some included	▶ 帮助

• Install

Use this option to perform a fresh installation of Mageia. This will format the root partition (/), but can preserve a pre-existing /home partition (a dedicated /home partition, rather than being incorporated within the root (/) partition itself).

• Upgrade

Use this option to upgrade an existing installation of Mageia.



Only upgrading from a previous Mageia version that was still supported when this Installer's version was released, has been thoroughly tested. If you want to upgrade a Mageia version that has reached its "End Of Life" then it is better to do a "clean" install instead, while preserving your /home partition.



If you have discovered that you forgot to select an additional language, you can return from the Install or Upgrade screen to the language choice screen by pressing **Ctrl+Alt+Home**. Do **NOT** do this later in the install.

3.5.

- If your keyboard isn't in the list shown, click on More to get a fuller list, and select your keyboard there.



After choosing a keyboard from the More dialogue, you'll return to the first keyboard choice dialogue and it will seem as though a keyboard from that screen was chosen. You can safely ignore this and continue the installation: the keyboard chosen from the full list will be applied.

• If you choose a keyboard based on non-Latin characters, you will see an extra dialogue screen asking how you would prefer to switch between the Latin and non-Latin keyboard layouts

3.6. Partitioning

3.6.1. Suggested Partitioning

In this screen you can see the content of your hard drive(s) along with the DrakX partitioning proposals for where to install Mageia.

The actual options available from those shown below will vary according to the layout and content of your particular hard drive(s).

Ornageia	分区
	这是您硬盘驱动器的内容 Western Digital Corp. WD (232GB) ▼
安業	SYSTEM_DRV . Windows7_OS .
语言 ●	Ext 2/3/A XFS 交换 Windows DrakX 分区向导找到下列解决办法:
许可 ● 分区 ●	 使用现存的分区
安装●	使用在 Microsoft Windows® 分区上的空闲空间
配置	SYSTEM_DRV.Windows7_OS.
用户	Windows (10GB) Mageia (945MB)
雨安●	清除并使用整个磁盘
退出 •	Å
	○ 自定义磁盘分区
	b
	`
	▶ 帮助

Main Options

• Use Existing Partitions

• Use Free Space

• Use Free Space on a Windows Partition

If you have unused space on an existing Windows partition, the installer may offer to use it. This can be a useful way of making room for your new Mageia installation, but is a risky operation so you should make sure you have backed up all important files!

With this option, the installer displays the remaining Windows partition in light blue and the proposed Mageia partition in dark blue with their intended sizes just underneath. You have the option to modify these sizes by clicking and dragging the gap between both partitions. See the following screenshot:

• Erase and use Entire Disk

This option will allocate the entire drive for Mageia



This will erase ALL data on the selected hard drive. Take care! If you intend to use part of the disk for something else, or you already have data on the drive that you are not prepared to lose, then do not use this option.



Custom Disk Partitioning

If you are not using the Custom disk partitioning option, then the installer will allocate the available space according to the following rules:

- If the total available space is less than 50 GB, then only one partition is created. This will be the / (root) partition.
- If the total available space is greater than 50 GB, then three partitions are created
 - 6/19 of the total available place is allocated to / with a maximum of 50 GB
 - 1/19 is allocated to swap with a maximum of 4 GB
 - the rest (at least 12/19) is allocated to /home

This means that from 160 GB or greater available space, the installer will create three partitions:

- 50 GB for /
- 4 GB for swap
- and the remainder for /home



If you are using a UEFI system, the ESP (EFI System Partition) will be automatically detected - or created if it does not exist yet - and mounted on /boot/EFI. The Custom disk partitioning option is the only one that allows to check it has been correctly done.

If you are using a Legacy (also known as BIOS) system with a GPT partitioned disk, you need to create a BIOS boot partition if it doesn't already exist. It should be about 1 MiB with no mount point. It can be created with the Installer, under Custom disk partitioning, like any other partition. Be sure to select "BIOS boot partition" for filesystem type.

See <u>DiskDrake</u> for information on how to proceed.



Some newer drives are now using 4096 byte logical sectors, instead of the previous standard of 512. Due to lack of available hardware, the partitioning tool used in the installer has not been tested with such a drive.

Some SSD devices now use an erase block size over 1 MB. If you have such a device we suggest that you partition the drive in advance, using an alternative partitioning tool like gparted, and to use the following settings:

- Align to = MiB
- Free space preceding (MiB) = 2

Also make sure all partitions are created using an even number of megabytes.

3.6.2.

Å		
Ornageia	分区	
		选择挂载点
安装	sda5 (12GB, /, ext4)	/ I •
语言 ● 许可 ●	sda7 (12GB, ext4)	
分区。	sda8 (16GB, /home, ext4)	/home
~~	sda9 (23GB, ext4)	
配置 用户 •	sdal0 (11GB, ext4)	
摘要	sda11 (3.4GB, ext4)	
更新 · 退出 ·	sda12 (20GB, ext4)	
	sda14 (14GB, ext4)	
	▶ 帮助	上一步

Here you see the Linux partitions that have been found on your computer. If you don't agree with the DrakX suggestions, you can change the mount points yourself.

- To the left of the drop-down menus is a list of available partitions. For example: sda is a hard drive and 5 is a partition number, followed by the (capacity, mount point, filesystem type) of the partition.
- If you have several partitions, you can choose various different mount points from the drop down menu, such as /, /home and /var. You can even make your own mount points, for instance /video for a partition where you want to store your films, or perhaps /Data for all your data files.
- For any partitions that you don't need to make use of, you can leave the mount point field blank.





If you are not sure what to choose, click Previous to go back and then tick Custom disk partitioning, where you can click on a partition to see its type and size. If you are sure the mount points are correct, click on Next, and choose whether you only want to format the partition suggested by DrakX, or more.

3.6.3. #########

Ömageja	分区
安装 语言 • 许可 • 分区 • 安装 • 配一 用户 摘要 • 更 退出 •	磁盘 sda (232GB, Western Digital Corp. WD2500BEVT-0) 上现存的所有分区及其资料将 被清除
and the second second	▶ 帮助 上一步 下一步

- Click on Previous if you are at all unsure about your choice.
- Click on Next to proceed if you are sure that it is OK to erase **every** partition, **every** operating system and **all data** that might be on that hard disk.

3.6.4. Custom Disk Partitioning with DiskDrake

Å	
Ornageia	分区
	这是您硬盘驱动器的内容 Western Digital Corp. WD (232GB) 🔹
安装	SYSTEM_DRV. Windows7_OS
语言 ●	Ext.2/3/4 XFS 交换 Windows DrakX 分区向导找到下列解决办法:
分区。	● 使用现存的分区
安装	使用在 Microsoft Windows® 分区上的空闲空间
配置	SYSTEM_DRV.Windows7_OS.
用户 ◎ 摘要 ◎	Windows (10GB) Mageia (945MB)
更新	清除并使用整个磁盘
退出	○自定义磁盘分区
	*
The second second	▶ 帮助 下一步

- Modify the layout of your disk(s) here. You can remove or create partitions, change the filesystem or size of a partition and even view their details before you start.
- There is a tab at the top for every detected hard disk (or other storage device, like a USB key). In the screenshot above there are two available devices: sda and sdb.
- For all other actions: click on the desired partition first. Then view it, or choose a filesystem and a mount point, resize it or wipe it. Expert mode provides more options such as to label (name) a partition, or to choose a partition type.
- Continue until you have adjusted everything to your satisfaction, then click Done when you're ready.

\bigcirc	1.	Take care with the Clear all option, use it only if you are sure you want to wipe all partitions on the selected storage device.
	2.	If you wish to use encryption on your / partition you must ensure that

2. If you wish to use encryption on your / partition you must ensure that you have a separate /boot partition. The encryption option for the /boot partition must NOT be set, otherwise your system will be unbootable.



- If you are installing Mageia on a UEFI system, check that an ESP (EFI System Partition) is present and correctly mounted on /boot/EFI. See Figure 1 below.
 - If you are installing Mageia on a Legacy/GPT system, check that a BIOS boot partition is present and of the correct type. See Figure 2 below.

Ö mageia	分区]
	点击分区,选择文件系统类型,然后选择操	作
	sda	
安装 语言 ●	/media/win_d /	查看
许可 ●		挂载点
分区の安装の	Ext4 XFS 交换 Windows 其它 空	改变大小
	细节	删除
配置 用户 ○	设备: 50312 类型: Journalised FS: ext4 本小: 20GB (8%)	
摘要 ●	X3. 2000 (0.0)	
更新		
	全部清除	自动分配
		切换到专家模式
	▶ 帮助	更多完成

3. EFI System Partition

4. BIOS boot partition

3.6.5. ###

Ö mageia	格式化
安装 语言 ● 许可 ● 分区 安装 ● 配置 用户 ● 摘要 ● 退出 ●	选择您要格式化的分区 ✓ sdal0(llGB, /, ext4) ☐ sdall(3.4GB, /home, ext4) ♪ 高级
	▶ 帮助 上一步 下一步

Here you can choose which partition(s) you wish to format. Any data on partitions not marked for formatting will be preserved.

Usually, at least the partitions that DrakX selected need to be formatted.

Click on Advanced to choose the partitions you want to check for so-called bad blocks



If you're not sure you have made the right choice, you can click on Previous, again on Previous and then on Custom to get back to the main screen, where you can choose to view details of your partitions.

When you are confident about the selections, click on Next to continue.

3.7. Software

3.7.1. Media Selection

3.7.1.1. Supplemental Installation Media

Compageia Compag	介质选择 找到了下列介质,并且在安装时会使用: Core Release, Nonfree Release, 您是否想要配置赠品安装介质?
摘要 ● 更新 ● 退出 ●	● 无 ○ CD-ROM
	 网络 (HTTP) 网络 (FTP) ● 网络 (NFS)
	▶ 帮助

This screen shows you the list of already recognised repositories. You can add other sources for packages, like an optical-disc or a remote source. The source selection determines which packages will be available during the subsequent steps.

- 1. Choosing and activating the network, if not already up.
- 2. Selecting a mirror or specifying a URL (very first entry). By selecting a mirror, you have access to the selection of all repositories managed by Mageia, like the Nonfree, the Tainted repositories and the Updates. With the URL, you can designate a specific repository or your own NFS installation.



If you are updating a 64-bit installation which may contain some 32-bit packages, it is advised to use this screen to add an online mirror by selecting one of the Network protocols here. The 64-bit DVD ISO only contains 64-bit and noarch packages, it will not be able to update the 32-bit packages. However, after adding an online mirror, the installer will find the needed 32-bit packages there.

3.7.1.2. Available Media

Ö mageia	介质选择
安装 语言 • 许可 • 分区 安装 配置 用户 摘要 更新 退出	Here you can enable more media if you want. Some hardware on your machine needs some non free firmwares in order for the free software drivers to work. You should enable "Nonfree Release" ✓ Core Release ✓ Nonfree Release
	▶ 帮助

- The Nonfree repository includes packages that are free-of-charge, i.e. Mageia may redistribute them, but they contain closed-source software (hence the name - Nonfree). For example this repository includes nVidia and AMD graphics card proprietary drivers, firmware for various WiFi cards, etc.
- The Tainted repository includes packages released under a free license. The main criteria for placing packages in this repository is that they may infringe patents and copyright laws in some countries, e.g. multimedia codecs needed to play various audio/video files; packages needed to play commercial video DVD's, etc.

3.7.2.

Some choices made here will open other screens with related options.

After the selection step(s), you will see a slideshow during the installation of required packages. The slideshow can be disabled by pressing the Details button.



- Choose whether you prefer to use the KDE Plasma or GNOME desktop environment. Both come with a full set of useful applications and tools.
- Select Custom if you do not wish to use either (or, actually use both) of these, or if you want to modify the default software choices for these desktop environments. The LXDE desktop, for instance, is lighter than the previous two, sporting less eye candy and having fewer packages installed by default.

3.7.3. ######

الم الم			
Ornageia	程序组选择		
and the second second	▼ 工作站		
	✔ 办公工作站) 游戏机	
安装	✔ 多媒体工作站	✓ Internet 工作站	
语言 ●	网络计算机(客户端)	✔ 配置	
许可 ●	✔ 控制台工具	□ 开发	
分区の安装の	✔ 文档		
~~~	▶服务器		
記畫	▼ 图形环境		
н <i>Г</i> ● 摘要 ●	✔ KDE 工作站		
更新●	XFCE Workstation	MATE Workstation	
退出	🗌 Cirpamon Workstation	LXDE 桌面	
	A graphical environment based or	n GNOME	
	□ 选择单个软件包		
	总共大小: 4737 / 10736 MB		
and the second	▶ 帮助	全部不选	下一步

Packages are arranged into common groups, to make choosing what you need on your system a lot easier. The groups are fairly self explanatory, however more information about the content of each is available in tool-tips which become visible as the mouse is hovered over them.

- Workstation
- Server
- Graphical Environment
- Individual Package Selection: you can use this option to manually add or remove packages

See  $\underline{\text{Minimal Install}}$  for instructions on how to do a minimal install (without or with X & IceWM).

#### 3.7.4. ####

Minimal Installation is intended for those with specific uses in mind for Mageia, such as a server or a specialised workstation. You will probably use this option combined with the Individual package selection option to fine-tune your installation. See <u>Choose</u> <u>Packages Tree</u>.

• You can choose a Minimal Installation by de-selecting everything in the Package Group Selection screen, see <u>Choose Package Groups</u>.

If desired, you can additionally tick the Individual package selection option in the same screen.

• If you choose this installation method, then the relevant screen (see screenshot below) will offer you a few useful extras to install, such as documentation and "X".

If the With X option is selected, then IceWM (a lightweight desktop environment) will also be included.

The basic documentation is provided in the form of "man" and "info" pages. It contains the man pages from the <u>Linux Documentation Project</u> [http://www.tldp.org/manpages/man.html] and the <u>GNU coreutils</u> [http://www.gnu.org/software/coreutils/manual/] info pages.

Ömageia	安装类型	
安装 语言 • 许可 • 分区 • 安装 • 配 • 用户 • 摘要 • 更新 • 退出 •	<ul> <li>♀ 安装×</li> <li>● Install recommended packages</li> <li>● 安装基础文档(建议!)</li> <li>● 真正最小安装(注意没有 urpmi 包管理工具)</li> </ul>	
	▶ 帮助	下一步

#### 3.7.5. #######

Omageia	软件管理	
	选择您想要安装的软件包	
	▶ 工作站	
安装	▶ 服务器	
语言 。	▼ 图形环境	
11日 ●	▶ KDE 工作站	
	▶ GNOME 工作站	$\checkmark$
安装	<ul> <li>XFCE Workstation</li> </ul>	
XX	atril 📡	
	audacity	
田白。	bluedevil	
摘要 ●	bootsplash	
更新●	brasero	
退出。	信息	
	名称: atril 版本: 1.8.1-3.mga5 大小: 3958 KB 重要程度: 必须拥有	
		总共大小: 791 / 10735 MB
	✔ 自动显示选中的软件包	
	▶ 帮助 🔶	上一步安装

Here you can add or remove any extra packages to customize your installation.

After having made your choice, you can click on the floppy icon at the bottom of the page to save your choice of packages (saving to a USB key works, too). You can then use this file to install the same packages on another system, by pressing the same button during install and choosing to load it.

# **3.8. User Management**

Å	
Omageia	用户管理
and the second second	• 设定管理员(root)密码
	密码 ●●●●●●●● ●
安装	密码(请再输一次)
·语言 ● 许可 ●	
分区●	・ 输入一个用户
安装 ●	图标
配置	真实姓名
用户	登录名
更新	密码
退出 •	密码(请再输一次)
	▶ 高级
The second line	▶ 帮助 下一步

3.8.1. ######root #####

It is advisable for all Mageia installations to set a superuser (Administrator) password, usually called the root password in Linux. As you type a password into the top box a shield will change from red-to-yellow-to-green depending on the strength of the password. A green shield shows you are using a strong password. You need to repeat the same password in the box underneath, to check that the first entry was not mistyped.



All passwords are case-sensitive. It is best to use a mixture of letters (upper and lower case), numbers and other characters in a password.

#### 3.8.2. #####

Add a User here. A regular user has fewer privileges than the superuser (root), but enough to use the Internet, office applications or play games and anything else the average user might use a computer for.

#### • Icon

Click on this button if you want to change the user's icon

Real Name

Insert the user's real name into this text box

• Login Name

Enter the user login name or let DrakX use a version of the user's real name. **The login name is case-sensitive.** 

Password

Type in the user password. There is a shield at the end of the text box that indicates the strength of the password. (See also  $\frac{\#\#}{2}$ )

**Password (again):** Retype the user password. DrakX will check that you have not mistyped the password.



Any users added while installing Mageia, will have a home directory that is both read and write protected (umask=0027)

You can add any extra needed users in the Configuration - Summary step during the install. Choose User management.

### **3.8.3. User Management (advanced)**

The Advanced option allows you to edit further settings for the user you are adding.

- Shell: This drop-down list allows you to change the shell available to any user you added in the previous screen. Options are Bash, Dash and Sh
- User ID: Here you can set the user ID for any user you added in the previous screen. If you are unsure what the purpose of this is, then leave it blank.
- Group ID: This lets you set the group ID. Again, if unsure, leave it blank.

# **3.9. Graphical Configuration**

#### 3.9.1. #########

Ö mageia	GRAPHIC CARD & I	
	Graphic Card	Intel 810 and later
	Monitor	自定义
· · · · · · · · · · · · · · · · · · ·	Resolution	Automatic
许可 ●		选项
安装 ● 配置 用户 ● 摘要 ● 更新 ● 退出 ●		•
	▶ 帮助	下一步

No matter which graphical environment (also known as desktop environment) you chose for this install of Mageia, they are all based on a graphical user interface system called X Window System, or simply "X". So in order for KDE Plasma, GNOME, LXDE or any other graphical environment to work well, the following "X" settings need to be correct.

Choose the appropriate settings manually if you think the details are incorrect, or if none are shown.

#### • Graphic Card

If you need to, you can select a specific card from this expandable list. See  $\frac{\# 3.9.2 \#}{\#\#\#\#\#X\#\#\#(\#\#\#\#\#\#\#\#)}$ .

#### • Monitor

You can choose Plug 'n Play, if applicable, or choose your monitor from the Vendor or Generic lists. Choose Custom if you prefer to manually set the horizontal and vertical refresh rates of your monitor. See # 3.9.3 # "#########".

#### • Resolution

The resolution and color depth of your monitor can be set here.

• Test

The test button does not always appear during install. If the option is there, and you test your settings, you should be asked to confirm that your settings are correct. If you answer Yes, the settings will be kept. If you don't see anything, you'll return to the configuration screen and be able to reconfigure everything until the test result is satisfactory. If the test option is not available, then make sure your settings are on the safe side.

#### • Options

Here you can choose to enable or disable various options.



There is a risk of damaging a monitor if you choose refresh rates that are outside the frequency range of that monitor. This applies to older CRT displays: modern monitors will reject an unsupported frequency and normally enter standby mode.

3.9.2. ####X###(######)

Å	
Ornageia	X SERVER
	Choose an X server
安装 语言 ● 许可 ● 分区 ● 安装 ● 配量 用户 ● 摘要 ●	<ul> <li>Vendor</li> <li>3Dlabs</li> <li>ATI</li> <li>Ark Logic</li> <li>Chips &amp; Technologies</li> <li>Cirrus Logic</li> <li>Diamond</li> <li>Digital</li> <li>Intel</li> </ul>
退出○	740-based cards
	Poulsbo US15W (GMA500) Vermilion-based cards Matrox NVIDIA NeoMagic
	▶ 帮助 上一步 下一步

- Vendor
- then the make of your card
- and the model of card

If you cannot find your card in the vendor lists (because it's not yet in the database or it's an older card) you may find a suitable driver in the Xorg category, which provides more than 40 generic and open source video card drivers. If you still can't find a specific driver for your card there is the option of using the VESA driver which provides basic capabilities.



Be aware that if you select an incompatible driver you may only have access to the Command Line Interface

Some video card manufacturers provide proprietary drivers for Linux which may only be available in the Nonfree repository and in some cases only from the card manufacturers' websites. The Nonfree repository needs to be explicitly enabled to access them. If you didn't enable it previously, you should do this after your first reboot.

#### 3.9.3. #######



Selecting a monitor with different characteristics could damage your monitor or video hardware. Please don't try something without knowing what you are doing. If in doubt you should consult your monitor documentation.

Ömageia	MONITOR
<b>安夫</b> 语言 - 许可 - 分区 - 安装 - <b>配</b> 用户 - 摘要 - 退出 -	白定义         Plug'n Play         ✓ Vendor         ▲Aamazing         ▲Aamazing CM-8426         ▲Aamazing MS-8431         ▲ Acer         ▲ Action Systems, Inc.         ▲ Actix         ▲ Adara         ▲ ADI         ▲ Amptron International,Inc.         ▲ AOC         ▲ Apollo         ▲ Apple         ▲ AST

### This option allows you to set two critical parameters: the vertical refresh rate and the horizontal sync rate. Vertical refresh determines how often the screen is refreshed and horizontal sync is the rate at which scan lines are displayed.

Plug'n Play This is the default option and automatically tries to determine the monitor type from the monitor database.

- Manufacturer
- Monitor model
- Generic Selecting this group will list nearly 30 display configurations such as 1024x768 @ 60Hz and includes flat-panel displays as used in laptops. This is often a good monitor selection group if you need to use the VESA card driver when your video hardware cannot be determined automatically. Once again it may be wise to be conservative in your selections.

# **3.10. Bootloader**

#### 3.10.1. Grub2

Grub2 on Legacy MBR/GPT systems

- GRUB2 (with or without graphical menu) will be used exclusively as the bootloader for a Legacy/MBR or Legacy/GPT system.
- By default, a new bootloader will be written into either the MBR (Master Boot Record) of your first hard drive or in the BIOS boot partition.

Grub2-efi on UEFI systems

- GRUB2-efi will be used exclusively as the bootloader for a UEFI system.
- By default, a new bootloader (Grub2-efi) will be written into the ESP (EFI System Partition).

If there are already UEFI-based operating systems installed on your computer (Windows 8 for example), the Mageia installer will detect the existing ESP created by Windows and add grub2-efi to it. If no ESP exists, then one will be created. Although it is possible to have several ESPs, only one is required, whatever the number of operating systems you have.

# **3.10.2. Bootloader Setup**

#### 3.10.2.1. #########

Ö mageja	引导程序的主要选项	
安装	• 引导程序 要使用的引导程序 启动设备	图形菜单 GRUB
语言 ● 许可 ● 分区 ● 安装 ●	• 主选项 启动默认映像前的延迟	10
配量 用户 ● 摘要 ● 更新 ●	• 安全 密码 密码(请再输一次)	
退出	▶ 高级	
	▶ 帮助	上一步

#### Bootloader to use

This feature is only available to Legacy MBR/BIOS systems. Users of UEFI systems will not see this option here.

#### Boot device

Don't change this unless you really know what you are doing

#### Delay before booting the default image

This text box lets you set a delay, in seconds, before the default operating system is started up.

#### • Security

This allows you to set a password for the bootloader. This means a username and password will be required when booting in order to select a booting entry or change settings. This is optional, and most people are not likely to have a need for it. The username is root and the password is the one chosen hereafter.

#### Password

Choose a password for the bootloader (optional)

#### • Password (again)

Retype the password and DrakX will check that it matches with the one set above

#### Advanced

• Enable ACPI

ACPI (Advanced Configuration and Power Interface) is a standard for power management. It can save energy by stopping unused devices. Deselecting it could be useful if, for example, your computer does not support ACPI or if you think the ACPI implementation might cause some problems (for instance random reboots or system lockups).

• Enable SMP

This option enables/disables symmetric multiprocessing for multi-core processors

• Enable APIC

Enabling this gives the operating system access to the Advanced Programmable Interrupt Controller. APIC devices permit more complex priority models, and Advanced IRQ (Interrupt Request) management.

• Enable Local APIC

Here you can set Local APIC, which manages all external interrupts for a specific processor in an SMP system

#### **3.10.2.2. Bootloader Configuration**

#### • Default

The operating system to be started up by default.

• Append

This option lets you pass information to the kernel or tell the kernel to give you more information as it boots.

#### • Probe foreign OS

If you already have other operating systems installed, Mageia attempts to add them to your new Mageia boot menu. If you don't want this behaviour, then untick the Probe Foreign OS option.

Advanced

• Video mode

This sets the screen size and colour depth to be used by the boot menu. If you click the down-triangle you will be offered other size and colour depth options.

• Do not touch ESP or MBR

Select this option if you don't want a bootable Mageia, but would rather chain-load it from another OS. You will get a warning that the bootloader is missing. Click Ok if you are sure you understand the implications, and wish to proceed.

# **3.10.3. Other Options**

#### 3.10.3.1. ########

The exact procedure for adding Mageia to an existing bootloader is beyond the scope of this documentation. However in most cases it will involve running the relevant bootloader installation program, which should detect Mageia and automatically add an entry for it in the bootloader menu. See the documentation for the relevant operating system.

#### **3.10.3.2. Installing Without a Bootloader**

While you can opt to install Mageia without a bootloader (see section 2.1 Advanced), this is not recommended unless you absolutely know what you are doing, as without some form of bootloader your operating system will be unable to start.

#### 3.10.3.3. ##########

To do this you need to manually edit /boot/grub2/custom.cfg or use the software **grubcustomizer** tool instead (available in the Mageia repositories).



For more information, see: <u>https://wiki.mageia.org/en/Grub2-efi_and_Mageia</u>

# **3.11. Configuration Summary**

DrakX presents a proposal for the configuration of your system depending on the choices you made and on the hardware detected. You can check the settings here and change them if you want by pressing Configure.



As a general rule, it is recommended that you accept the default settings unless:

- ############
- ###############
- some other factor mentioned in the detailed sections below is an issue

#### 3.11.1. ####

#### Timezone

DrakX selects a timezone for you, depending on your preferred language. You can change it if needed. See also <u>Configure Timezone</u>

#### Country / Region

If the selected country is wrong, it is very important that you correct the setting. See <u>Select Country</u>

#### • Bootloader

DrakX proposal for the bootloader setting

Do not change anything, unless you know how to configure GRUB2. For more information, see <u>Bootloader</u>

#### • User management

You can add extra users here. They will each be allocated their own /home directories.

#### Services

System services refer to those small programs which run in the background (daemons). This tool allows you to enable or disable certain processes.

You should check carefully before changing anything here - a mistake may prevent your computer from operating correctly. For more information, see <u>Configure</u> <u>Services</u>

#### 3.11.2. ####

#### • Keyboard

Configure your keyboard layout according to your location, language and type of keyboard.

0000000	#######################################

#### Mouse

#### Sound card

The installer will use the default driver if one is available.

If there is no actual default driver for your sound card, there may be other possible alternative drivers available to choose from. If this is the case, but you think the installer has not made the most appropriate choice, you can click on Advanced to manually specify a driver.

#### • Graphical interface

Ömageja	摘要	
	键盘 - US keyboard	配置
	鼠标 - Universal Any PS/2 & USB mice	配置
安装	声卡 - Intel HDA driver	配置
11日 ●	图形界面 - Automatic	配置
7/△ ● 安装 ●		
記畫	• 网络和 Internet	
用户 ●	网络 - ethernet	配置
摘要 通知 原新 日本 一	代理服务器 - 未配置	配置
退出。		I
	• 安全	
	安全级别 - 标准	配置
	防火墙 - 已激活	配置
and the second second second	▶ 帮助	下一步

### 3.11.3. ### Internet ##

#### Network

You can configure your network here, but for network cards with non-free drivers it is better to do that after reboot, using the Mageia Control Center, if you have not yet enabled the Nonfree media repositories.



When you add a network card, do not forget to set your firewall to monitor that interface as well.

#### Proxies

A Proxy Server acts as an intermediary between your computer and the wider Internet. This section allows you to configure your computer to utilize a proxy service.

You may need to consult your systems administrator to obtain the parameters you need to enter here.

3.11.4. ##

#### • Security Level

The Security level for your computer, in most cases the default setting (Standard) is adequate for general use. Select the option which best suits your usage.

#### • Firewall

The firewall allows you to manage which network connections are allowed on your computer. The safe and secure default is to allow ZERO inbound connections. This does not stop you connecting outbound and using your computer normally.

Please be aware that the Internet is a high risk network where there are continuous attempts to probe and attack systems. Even seemingly "safe" connections such as ICMP (for ping) have been used as covert data channels for exfiltrating data by malicious persons.

For more information, see Firewall.



# **3.12. Locale**

#### 3.12.1. ####

Ö mageia	时区 您所在的时区?	
安装 语言 ● 许可 ● 分区 ● 安装 ● 配置 用户 ● 摘要 ● 取新 ● 退出 ●	Arctic Asia Aden Almaty Amman Anadyr Aqtau Aqtau Aqtobe Ashgabat Ashkhabad Baghdad Bahrain Baku Bangkok Beijing Beirut 上一步 下一步	¢

• Choose your timezone by choosing your country, or a city close to you in the same timezone.

In the next screen you can choose to set your hardware clock to local time or to GMT, also known as UTC.



#### 

- Select your country or region. This is important for all kinds of settings, like the currency and wireless regulatory domain. Setting the wrong country can lead to being unable to use a Wireless network.
- If your country isn't in the list, click the Other Countries option and choose your country / region there.



If your country is only in the Other Countries list, after clicking OK it may seem that a country from the main list was chosen. Despite this, DrakX will actually apply your choice.

3.12.2.1. ###

In the Other Countries screen you can also select an input method (at the bottom of the list). Input methods allow users to input multilingual characters (Chinese, Japanese, Korean, etc). IBus is the 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 be installed if you added HTTP/FTP media before package selection.



If you missed the input method setup during installation, you can access it post-install via Configure your Computer  $\rightarrow$  System, or by running **localedrake** as root.

# 3.13. ####

Ömageja	服务		
	远挥升机时自动启动的服务		
	▶ 系统		
安装	▶ 其它		
语言 ●	▶ 互联网		
许可 ●	▼ 联网		
分区 ●	network		
安装 ●	network up		
	resolvconf	ĭ I	
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	resolvconi	¥	
用户 ●			
摘要 ○			
更新●			
退出●			
	信息 Bequires network to be un	if enabled	
	incluines network to be up	il chubicu	
		26 西口注册 17 西部	口 ※46 公平
		20 坝口注册, 17 坝[	
	▶ 帮助		上一步 下一步

Here you can choose which services should start when you boot your system.

- Click on a triangle to expand a group to all the relevant services. The settings DrakX chose are usually good.

3.14. ####

Ö mageia	
安装 语言 • 许可 • 分区 • 安装 • 配置 用户 • 摘要 取新 • 退出 •	Pease choose your type of mouse.
	▶ 帮助 上一步 下一步

Usually, Universal  $\rightarrow$  Any PS/2 and USB mice is a good choice.

Select Universal  $\rightarrow$  Force evdev to configure the buttons that do not work on a mouse with six or more buttons.

### 3.15. ####

ന്നാരലാ	
Ornageia	<b>声音配置</b>
安装 语言 ● 许可 ● 分区 ● 安装 ● 配量 用户 ●	Intel Corporation 828011 (ICH9 Family) HD Audio Controller Your card currently uses the ALSA "snd_hda_intel" driver (the default driver for your card is "snd_hda_intel") ② 启用 PulseAudio ③ 使用无干扰模式 <b>〕 高级</b>
摘要 更新 退出	
and the second second	▶ 帮助 上一步 下一步

This screen shows the details of the sound card driver chosen for you by the installer, and this driver should work without problems.

However, if you encounter any issues post-install, then run **draksound** or start this tool via Mageia Control Center  $\rightarrow$  Hardware  $\rightarrow$  Sound Configuration. Then, in the draksound or Sound Configuration screen, click on Troubleshooting to find useful advice about how to solve the problem.

### 3.15.1. ##

If there is no actual default driver for your sound card, there may be other possible alternative drivers available to choose from. If this is the case, but you think the installer has not made the most appropriate choice, you can click on Advanced to manually specify a driver.

### 3.16. ####

Ö mageia	安全
安装 语言 • 许可 • 分区 • 安装 • 配置 用户 • 摘要 • 夏新 • 退出 •	<ul> <li> 「読法择期望的安全级别 <ul> <li> 本 法 法 法 法 法 法 法 法 法 法 法 法 法 法 法 法 法 法 就 知 以 か か か か か か か か か か か か か か か か か か</li></ul></li></ul>
	予帮助         上一步         下一步

#### Please choose the desired security level

Standard is the default, and recommended setting for the average user.

Secure will create a highly protected system - for instance if the system is to be used as a public server.

#### Security Administrator

This item allows you to configure an email address to which the system will send security alert messages when it detects situations which require notification to a system administrator.

A good, and easy-to-implement, choice is to enter <user>@localhost - where <user> is the login name of the user to receive these messages.



The system sends such messages as **Unix Mailspool messages**, not as "ordinary" SMTP mail: this user must therefore be configured for receiving such mail!

It will always be possible to adjust your security settings post-install in the Security section of the Mageia Control Center.

# **3.17. Firewall**

This section allows you to configure some simple firewall rules: they determine which type of message from the Internet will be accepted by the target system. This, in turn, allows the corresponding services on the system to be accessible from the Internet.

In the default setting (no button is checked), no service of the system is accessible from the network. The Everything (no firewall) option enables access to all services of the machine - an option that does not make much sense in the context of the installer since it would create a totally unprotected system. Its veritable use is in the context of the Mageia Control Center (which uses the same GUI layout) for temporarily disabling the entire set of firewall rules for testing and debugging purposes.

All other options are more or less self-explanatory. As an example, you will enable the CUPS server if you want printers on your machine to be accessible from the network.

#### Advanced

The Advanced option opens a window where you can enable a series of services by typing a list of "couples" (blank separated)

<port-number>/<protocol>

- <port-number> is the value of the port assigned to the service you want to enable (e.g. 873 for the RSYNC service) as defined in RFC-433;

- <protocol> is one of TCP or UDP - the internet protocol that is used by the service.

For instance, the entry for enabling access to the RSYNC service therefore is 873/tcp.

In case a service is implemented to use both protocols, you specify 2 couples for the same port.

3.18. ##

Ö mageia	更新
安装 语言 • 许可 • 分区 • 安装 • 配置 用户 • 摘要 • 更新 • 退出 •	<ul> <li>窓现在有机会下载软件更新包。更新软件包是在发行版发布之后发布的。它们可能包含对一些安全问题或故障的修改。</li> <li>要下载这些软件包,您的网络连接必须已经配置好并且可以使用。</li> <li>② 是</li> <li>③ 否</li> </ul>
	▶ 帮助

Since this version of Mageia was released, some packages will have been updated or improved.

- Select Yes if you wish to download and install them
- Select No if you don't want to do this now, or if you aren't connected to the Internet
- Press Next to continue

3.19. ##

Compage Comp	恭喜。安装完成了。请取出启动介质, 然后按 Enter 重新启动。         要了解此版本 Mageia 的修订, 请访问以下勘误表: http://www.mageia.org/关于安装后如何 配置您的系统, 请查看 Mageia 官方用户手册。         After rebooting and logging into Mageia, you will see the MageiaWelcome screen. It is full of very useful information and links.
退出 0	▲

You have finished installing and configuring Mageia and it is now safe to remove the installation medium and reboot your computer.

After rebooting, you can use the bootloader screen to choose which operating system to start (if there are more than one on your computer).

################# Mageia#

Enjoy!

Visit <u>www.mageia.org/en/</u> [http://www.mageia.org/en/] if you have any questions or want to contribute to Mageia

# 3.20. ##Mageia

If Mageia didn't convince you or you can't install it correctly - in short you want get rid of it - that is your right and Mageia also gives you the possibility to uninstall. This is not true for every operating system.

After backing up your data, reboot your Mageia installation DVD and select Rescue system, then Restore Windows boot loader. At the next boot, you will only have Windows, with no option to choose your Mageia operating system.

In Windows, to recover the space used by Mageia partitions: click on Start  $\rightarrow$  Control Panel  $\rightarrow$  Administrative Tools  $\rightarrow$  Computer Management  $\rightarrow$  Storage  $\rightarrow$  Disk Management. You will recognise a Mageia partition because they are labeled Unknown, and also by

their size and place on the disk. Right-click on each of these partitions and select Delete to free up the space.

If you are using Windows XP, you can create a new partition and format it (FAT32 or NTFS). It will then get a partition letter.

If you have Vista or 7, you have one more possibility, you can extend the existing partition that is at the left of the freed space. There are other partitioning tools that can be used, such as **gparted**, available for both Windows and Linux. As always, when changing partitions, be very careful to back up anything important to you.