Installation från ett LIVE-media

Mageias officiella dokumentation

Texter och skärmdumpar i denna manual finns under CC BY-SA 3.0 licensen http://creativecommons.org/licenses/by-sa/3.0/


Installation från ett LIVE-media
Innehållsförteckning

Installation från ett LIVE-media ..................................................................................................... 1

1. Välj och använd ISO-filer ........................................................................................................ 1
   1.1. Presentation .................................................................................................................. 1
   1.2. Media ............................................................................................................................ 1
   1.3. Laddar ner och kontrollerar media ............................................................................. 3
   1.4. Bränn eller dumpa ISO-filen. ....................................................................................... 3

2. Starta Mageia som ett Live-system .................................................................................... 6
   2.1. Startar upp mediat ....................................................................................................... 6
   2.2. I BIOS/CSM/Legacy-läge .......................................................................................... 7
   2.3. I UEFI-läge .................................................................................................................. 8

3. Välj språk ............................................................................................................................ 8

4. Anteckningar för licens och utgåvan .................................................................................... 9
   4.1. Licensavtal .................................................................................................................. 9
   4.2. Versionsinformation .................................................................................................... 9

5. Ställ in din tidszon .............................................................................................................. 9

6. Inställningar för klocka ....................................................................................................... 9

7. Välj tangentbord ................................................................................................................ 9

8. Testar Mageia som ett Live-system ................................................................................... 10
   8.1. Live-läge .................................................................................................................... 10

9. Partitionering ..................................................................................................................... 10
   9.1. Föreslagen partitionering .......................................................................................... 10
   9.2. Välj monteringspunkter ............................................................................................. 12
   9.3. Bekräfta hårdiskens som ska formateras ................................................................. 12
   9.4. Anpassad diskpartitionering med DiskDrake ............................................................ 13
   9.5. Formatering .............................................................................................................. 13

10. Behåll eller radera oanvändt material ................................................................................. 14

11. Starthanterare .................................................................................................................. 14
   11.1. Available Bootloaders ............................................................................................. 14
   11.2. Bootloader Setup ...................................................................................................... 15
   11.3. Fler alternativ .......................................................................................................... 17

12. Starta om .......................................................................................................................... 18

13. Användarhantering ............................................................................................................ 18
   13.1. Ställ in ett administratörs (root) -lösenord: ........................................................... 18
   13.2. Lägg till en användare ............................................................................................. 18

14. Inloggningsskärm ............................................................................................................. 19

15. Avinstallera Mageia .......................................................................................................... 19
Figurförteckning

1. EFI systempartition ................................................................. 13
2. BIOS boot partition ................................................................. 13
Installation från ett LIVE-media

Ingen kommer att se alla installerarens skärmbilder som du ser i den här handboken. Vilka skärmbilder som just du kommer att se beror på din hårdvara och vilka val du gör under installationen.

1. Välj och använd ISO-filer

1.1. Presentation

Mageia is distributed via ISO images. This page will help you to choose which image best suits your needs.

There are three types of installation media:

- **Classical installer:** Booting with this media provides you with the maximum flexibility when choosing what to install, and for configuring your system. In particular, you have a choice of which Desktop environment to install.

- **LIVE media:** This option allows you to try out Mageia without having to actually install it, or make any changes to your computer. However, the Live media also includes an Installer, which can be started when booting the media, or after booting into the Live operating system itself.

The Live Installer is simpler compared to the Classical Installer - but you have fewer configuration options.

Live ISOs can only be used to create "clean" installations, they cannot be used to upgrade previously installed Mageia releases.

- **Net Install:** These are minimal ISO’s containing no more than that which is needed to start the DrakX installer and find DrakX-installer-stage2 and other packages that are needed to continue and complete the install. These packages may be on the PC hard disk, on a local drive, on a local network or on the Internet.

These media are very light (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 is unable to boot from a USB stick.

More details are given in the next sections.

1.2. Media

1.2.1. Definition

Here, a medium (plural: media) is an ISO image file that allows you to install and/or update Mageia and, by extension, any physical medium (DVD, USB stick, ...) the ISO file is copied to.

1.2.2. Klassiska installationsmedier

1.2.2.1. Vanliga funktioner

- De här ISO-filerna använder den klassiska installeraren som kallas DrakX
- They are used for performing clean installs or to upgrade a previously installed version of Mageia
- Olika media för 32 och 64-bitars arkitekturer
- Some tools are available in the Installer "Welcome" screen: Rescue System, Memory Test, and Hardware Detection Tool
- Varje DVD innehåller många tillgängliga skrivbordsmiljöer och språk
- You'll be given the choice during the installation to add non-free software

1.2.3. Live media

1.2.3.1. Vanliga funktioner

- Can be used to preview the Mageia operating system without having to install it
- Live-mediet inkluderar också en installerare.
- Varje ISO innehåller endast en skrivbordsmiljö (Plasma, GNOME eller Xfce)
- Olika media för 32 och 64-bitars arkitekturer
- De innehåller icke-fri mjukvara

1.2.3.2. Live DVD Plasma

- Endast skrivbordsmiljön Plasma
- All available languages are present
- endast 64-bitars arkitektur

1.2.3.3. Live DVD GNOME

- endast skrivbordsmiljön GNOME
- All available languages are present
- endast 64-bitars arkitektur

1.2.3.4. Live DVD Xfce

- endast skrivbordsmiljön Xfce
- All available languages are present
- 32 eller 64-bitars arkitekturer

1.2.4. Net install media

1.2.4.1. Vanliga funktioner

- Olika media för 32 och 64-bitars arkitekturer
- First steps are English language only
Installation från ett LIVE-media

1.2.4.2. netinstall.iso

• Innehåller endast fri mjukvara, för de som föredrar att inte använda icke-fri mjukvara

1.2.4.3. netinstall-nonfree.iso

• Innehåller icke-fri mjukvara (mestadels drivrutiner, kodekar...) för de som behöver det

1.3. Laddar ner och kontrollerar media

1.3.1. Hämtar

Once you have chosen your ISO file, you can download it using either http or BitTorrent. In both cases, you are provided with some information, such as the mirror in use and an option to switch to an alternative if the bandwidth is too low.

If http is chosen you will also see some information regarding checksums.

md5sum, sha1sum and sha512sum (the most secure) are tools to check the ISO integrity. Copy one of the checksums (string of alphanumeric characters) for use in the next section.

In the meantime, a window to download the actual ISO will open:

Klicka på Spara fil, klicka sen på OK.

1.3.2. Kontrollerar integriteten på nerladdad media

The checksums referred to earlier, are digital fingerprints generated by an algorithm from the file to be downloaded. You may compare the checksum of your downloaded ISO against that of the original source ISO. If the checksums do not match, it means that the actual data on the ISO's do not match, and if that is the case, then you should retry the download or attempt a repair using BitTorrent.

To generate the checksum for your downloaded ISO, open a console, (no need to be root), and:

• To use the md5sum, type: md5sum path/to/the/image/file.iso
• To use the sha1sum, type: sha1sum path/to/the/image/file.iso
• To use the sha512sum, type: sha512sum path/to/the/image/file.iso

Exempel:

```
[<user>@localhost ~]$ md5sum /home/sam5/Downloads/Mageia-4-RC-x86_64-DVD.iso
e1c1e47c4b003b5e9eae691198b195c8 /home/sam5/Downloads/Mageia-4-RC-x86_64-DVD.iso
[<user>@localhost ~]$ 
```

then compare the result (you may have to wait for a while) with the ISO checksum provided by Mageia.


The verified ISO can now be burned to a CD/DVD or "dumped" to a USB stick. This is not a standard copy operation, as a bootable medium will actually be created.
Installation från ett LIVE-media

1.4.1. Att bränna ISO-filen till en CD/DVD

Whichever software you use, ensure that the option to burn an image is used. Burn data or files is NOT correct. See the Mageia wiki [https://wiki.mageia.org/en/Writing_CD_and_DVD_images] for more information.

1.4.2. Dumpa ISOn till ett USB-minne

All Mageia ISOs are hybrids, which means you can dump them to a USB stick and then use that to boot and install the system.

Dumping an image onto a flash device destroys any previous file-system on the device and all existing data will be lost.

Also, the only partition on the flash device will then just be the Mageia ISO partition.

So, if an ISO of about 4GB is written to an 8GB USB stick, the stick will then only show up as 4GB. This is because the remaining 4GB is no longer formatted - hence not currently available for use. To recover the original capacity, you must reformat and repartition the USB stick.

1.4.2.1. Använda ett grafiskt verktyg i Mageia


1.4.2.2. Använda ett grafiskt verktyg i Windows

Du kan prova:

- Rufus [http://rufus.akeo.ie/?locale=en_US] using the “ISO image” option
- Win32-diskavbildaren [http://sourceforge.net/projects/win32diskimager]

1.4.2.3. Using the Command line within a GNU/Linux system

It is potentially *dangerous* to do this by hand. You risk overwriting potentially valuable existing data if you specify the wrong target device.

1. Öppna en konsol
2. Become a root (Administrator) user with the command su - (don't forget the - )

```
[sam5@localhost ~]$ su -
Password:
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]#
```
3. Plug in your USB stick - but do not mount it (this also means do not open any application or file manager that could access or read it)

4. Skriv kommandot **fdisk -l**

```
[root@localhost ~]# fdisk -l

Disk /dev/sda: 298.1 GiB, 320072933376 bytes, 625142448 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disklabel type: dos
Disk identifier: 0x0000db4bf

Partition 3 does not start on physical sector boundary.

Device Boot Start   End     Blocks  Id  System
/dev/sdal  * 2049 21256191 10627872  83 Linux
/dev/sda2  21256192  63528959 21136384  83 Linux
/dev/sda3  63528960  625137344 280803190+  5 Extended
/dev/sda5  625137345  84873215 10671104  82 Linux
/dev/sda6  84873216  127019098 21070848  83 Linux
/dev/sda7  127019099 135985151 4438372  82 Linux swap / Solaris
/dev/sda8  135985152 198598655 31385728  83 Linux
/dev/sda9  198598656 247588863 136494080 83 Linux
/dev/sda10 247588864 471590912 949777994 12593541+ 83 Linux
/dev/sda11 471590913 504958976 4086884 82 Linux swap / Solaris
/dev/sda12 504958977 625137344 600891084+ 83 Linux
```

```
Disk /dev/scb: 7.5 GiB, 8011087872 bytes, 15646556 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x15005631

Device Boot Start   End     Blocks  Id  System
/dev/scb1  * 1 7599079 3799939+ 17 Hidden HPFS/NTFS
```

5. Find the device name for your USB stick (by its size), for example /dev/sdb in the screenshot above, is an 8GB USB stick.

Alternatively, you can find the device name with the command **dmesg**. Towards the end of the following example, you can see the device name starting with *sd*, and in this case, *sdd* is the actual device. You can also see that its size is 2GB:

```
[72594.604531] usb 1-1: new high-speed USB device number 27 using xhci_hcd
[72594.770528] usb 1-1: New USB device found, idVendor=8564, idProduct=1000
[72594.770533] usb 1-1: New USB device strings: Mfr=1, Product=2, SerialNumber=3
[72594.770536] usb 1-1: Product: Mass Storage Device
[72594.770537] usb 1-1: Manufacturer: JetFlash
[72594.770539] usb 1-1: SerialNumber: 18MJTWLMPUCC3SSB
```
Installation från ett LIVE-media

6. Skriv kommandot: `dd if=genväg/till/ISO of=/dev/sdx bs=1M`

Detta ger åtkomst till ISO-iffilen och skriver dess innehåll till den angivna enheten.

Där `X`=namnet på din enhet t.ex: `/dev/sdd`

**Example:** `dd if=/home/user/Downloads/Mageia-6-x86_64-DVD.iso of=/dev/sdd bs=1M`

It might be helpful to know that `if` stands for **input file** and `of` stands for **output file**

7. Skriv kommandot: `sync`

8. This is the end of the process, and you may now unplug your USB stick.

2. **Starta Mageia som ett Live-system**

2.1. **Startar upp mediat**

You can boot directly from a Live DVD or USB. Usually, you just need to plug the USB device in or place the DVD in the drive and restart the computer.

If the computer does not automatically boot from the USB or DVD you may need to reconfigure your BIOS Boot Disk priority. Alternatively, you might try accessing the boot device menu to select a device from which the computer will boot.

To access the BIOS or boot menu when the computer is starting, you can try pressing either **F2**, **Del** or **Esc** for the BIOS, or **Esc**, **F8**, **F10** or **F11** for the boot device menu. These (fairly common) keys are just a selection of possible options though.

The actual screen that you will first see when booting from the Live media will depend on whether your computer motherboard is of the Legacy (BIOS) or UEFI type.
2.2. I BIOS/CSM/Legacy-läge

Den första skärmen när du startar i BIOS-läge

**Meny**

- **Starta Mageia**
  
  *This option will boot the Mageia Live system from the connected DVD/USB media (expect a very slow system compared to an installed OS).*

  Once the boot is done, you can proceed to the installation.

  - + använd icke-fria grafik-drivrutiner (startar långsammare)

  Starta Mageia Live-systemet med icke-fria grafik-drivrutiner

- **Installera Mageia**

  *Det här alternativet kommer att installera Mageia till en hårddisk.*

  - + använd icke-fria grafik-drivrutiner (startar långsammare)

  Installera Mageia med icke-fria grafik-drivrutiner

- **Minnestest**

  Test the installed RAM by performing multiple read and write operations. Reboot to end the test.

- **F2 Språk**

  Press **F2** to have the installer use a specific language during the installation. Use the arrow keys to select the language then press **Enter**.
2.3. I UEFI-läge

First screen while booting in UEFI mode

**Meny**

- **Starta Mageia**
  
  This option will boot the Mageia Live system from the connected DVD/USB media (expect a very slow system compared to an installed OS). Once the boot is done, you can proceed to the installation

- **Installera Mageia**
  
  Det här alternativet kommer att installera Mageia till en hårddisk.

- **F2 Språk**
  
  Press F2 to have the installer use a specific language during the installation. Use the arrow keys to select the language then press Enter.

If you booted from a USB stick, you will see the above menu options duplicated, and in this case, you should choose from the menu pair that will be suffixed with "USB".

---

3. **Välj språk**

- Select your preferred language. Mageia will use this selection during the installation and for your installed system.
Installation från ett LIVE-media

- 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.

4. Anteckningar för licens och utgåvan

4.1. Licensavtal

- Läs igenom licensvillkoren ordentligt innan du installerar Mageia.
- Villkoren gäller hela Mageias distribution, och måste accepteras innan du kan fortsätta.
- Vänligen välj Acceptera och klicka sedan på Nästa för att fortsätta

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

4.2. Versionsinformation

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

5. Ställ in din tidszon

- Välj din tidszon genom att välja ditt land eller en stad nära dig i samma tidszon.

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

Om du har mer än ett operativsystem i din dator så se till att de är inställda på lokal tid eller till UTC/GMT.

6. Inställningar för klocka

Here, you can select whether your computer internal clock is set to local time or UTC time.

In the Advanced tab, you can enable automatic time synchronization and specify an NTP server.

7. Välj tangentbord

Here you can set the keyboard layout you wish to use with Mageia.

A suggested keyboard layout (highlighted), has been chosen for you based upon your previously selected language and timezone choices.
8. Testar Mageia som ett Live-system

8.1. Live-läge

This is the screen you will see if you selected the **Boot Mageia** option from the Live media menu.

8.1.1. Testar hårdvara

One of the aims of using the Live mode is to test that your hardware is correctly managed by Mageia. You can check if all devices have a driver in the Hardware section of the Mageia Control Center:

- nätverksgränssnitt: konfigurera det med net_applet
- grafikkort: om du ser den föregående skärmen så är det redan OK.
- ljud: en jingel har redan spelats upp
- printer: configure your printer/s and print a test page
- skanner: skanna ett dokument från ...

If everything is satisfactory, you can proceed with the installation. If not, you can use the **Quit** button to exit.

The configuration settings you apply here are carried over if you decide to proceed with the installation.

8.1.2. Påbörja installationen

To launch the installation of the Live DVD to a hard disk or SSD drive, simply click the **Install on Hard Disk** icon on the Live desktop. You will then see this screen, followed by the **Partitioning** step.

9. Partitionering

9.1. Föreslagen partitionering

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).

**Huvudsakliga alternativ**

- **Använd befintliga partitioner**
  
  Om det här alternativet är tillgängligt så har kompatibla Linux-partitioner hittats och kan användas för installation.

- **Använd oanvänt utrymme**
  
  Om du har ledigt utrymme på din hård disk kommer detta alternativet att använda det för att installera Mageia.

- **Använd oanvänt utrymme i en 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 see the warning below.

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:

This involves shrinking the size of the Windows partition, and therefore is a risky operation, so you should make sure you have backed up all important files before proceeding.

The partition must be "clean", meaning that Windows must have closed down correctly the last time it was used. It must also have been defragmented, although this is not a guarantee that all files in the partition have been moved out of the area that is about to be used for Mageia.

• **Radera och använd hela härddisken**

Det här alternativet kommer att alloker hela disken för 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.

• **Anpassad diskpartitionering**

Detta ger dig fullständig kontroll över placeringen av installationen på din/a disk/ar.

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 för /
• 4 GB för swap
• och det som återstår till /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
Installation från ett LIVE-media

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 DiskDrake 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:

- Justera till = MiB
- Free space preceding (MiB) = 2

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

9.2. Välj monteringspunkter

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 make any changes here, ensure you still have a / (root) partition.

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.

9.3. Bekräfta hårddisken som ska formatteras

- Klicka på Föregående om du är osäker på ditt val.
Installation från ett LIVE-media

• 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.

9.4. Anpassad diskpartitionering med DiskDrake

• 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), for example: sda, sdb, sdc etc.
• 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.

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 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.

Figur 1. EFI systempartition

Figur 2. BIOS boot partition

9.5. Formatering

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.
10. Behåll eller radera oanvänt material

In this step, the installer looks for unused locales packages and unused hardware packages and you are then given an opportunity to delete them.

If you do not foresee a case where your installation may need to run on different hardware, or that you might need additional localization files then you might wish to accept this proposal.

Clicking Advanced will list the unused hardware and localization files that will be removed if you proceed.

The next step is the copying of files to hard disk. This process should just take a little while to complete. When it is finishing you will briefly get a blank screen - this is normal.

11. Starthanterare

11.1. Available Bootloaders

11.1.1. 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 or rEFInd may be used 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.

11.1.2. rEFInd

rEFInd on UEFI systems

• rEFInd has a nice graphical set of options, and can auto-detect installed EFI bootloaders. See: http://
  www.rodsbooks.com/refind/

Please note that in order to be able to use the rEFInd option, an installed EFI System Partition
must match your system architecture: if you have a 32bit EFI System Partition installed on a
64bit machine for instance, then the rEFInd option will not be displayed/available to you.

11.2. Bootloader Setup

11.2.1. Huvudalternativ för startshanteraren

• Uppstartshanterare att använda
  – GRUB2 (with either a graphical or a text menu), can be chosen for both Legacy MBR/BIOS systems
    and UEFI systems.
  – rEFInd (with a graphical menu) is an alternative option solely for use with UEFI systems.

• Boot device

  Don’t change this unless you really know what you are doing.

There is no option to write GRUB to the boot sector of a partition (e.g: sda1), as this method
is considered unreliable.

When using UEFI mode, then the Boot device will be listed as EFI System Partition.

• Fördröj innan standard-avbilden startas

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

• Säkerhet

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.

• Lösenord

Välj ett lösenord för uppstartshanteraren (valfritt)
Installation från ett LIVE-media

- Lösenordet (igen)
  Retype the password and DrakX will check that it matches with the one set above

Avancerad

- Aktivera 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).
- Aktivera SMP
  This option enables/disables symmetric multiprocessing for multi-core processors
- Aktivera 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.
- Aktivera Lokal APIC
  Here you can set Local APIC, which manages all external interrupts for a specific processor in an SMP system

11.2.2. Konfiguration av starthanterare

If, in the previous section you selected rEFInd as the bootloader to use, you would then be presented with the options shown in the screenshot directly below. Otherwise, please instead move on to the subsequent screenshot for your options.

Your rEFInd configuration options:

- Install or update rEFInd in the EFI system partition.
- Install in /EFI/BOOT.
  This option installs the bootloader in the /EFI/BOOT directory of the ESP (EFI System Partition). This can be useful when:
  (a) Installing onto a removable drive (e.g. a USB stick) that can be removed and plugged into a different machine. If the bootloader is stored in /EFI/BOOT, UEFI BIOS’s will detect it and allow you to boot from that drive.
  (b) As a workaround where, due to a buggy UEFI BIOS, the newly written bootloader for Mageia will not be recognized at end of the installation.

If you did not select rEFInd as the bootloader to use in the previous section, then your bootloader configuration options are shown below:

- Standard
  The operating system to be started up by default.
- Fäst
  This option lets you pass information to the kernel or tell the kernel to give you more information as it boots.
- Undersök främmande OS
Installation från ett LIVE-media

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.

- **Install in /EFI/BOOT.** (Note: this menu option only becomes available where the installer detects that a machine is in UEFI mode).

This option installs the bootloader in the /EFI/BOOT directory of the ESP (EFI System Partition). This can be useful when:

(a) Installing onto a removable drive (e.g. a USB stick) that can be removed and plugged into a different machine. If the bootloader is stored in /EFI/BOOT, UEFI BIOS's will detect it and allow you to boot from that drive.

(b) As a workaround where, due to a buggy UEFI BIOS, the newly written bootloader for Mageia will not be recognized at end of the installation.

**Avancerad**

- **Grafikläge**

  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.

- **Rör inte ESP eller 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 only if you are sure you understand the implications, and wish to proceed.

---

Chain-loading via legacy bootloaders (GRUB Legacy and LiLo) is no longer supported by Mageia as it is likely to fail when attempting to boot this resulting installation of Mageia. If you use anything other than GRUB2 or rEFInd for this purpose, then you do so at your own risk!

---

**11.3. Fler alternativ**

**11.3.1. Använd en befintlig startshanterare**

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.

**11.3.2. Installera utan en uppstartshanterare**

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.

**11.3.3. Lägg till eller ändra en post i bootmenyn**

To do this you need to manually edit /boot/grub2/custom.cfg or use the software **grub-customizer** tool instead (available in the Mageia repositories).
Installation från ett LIVE-media

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

12. Starta om

Once the bootloader has been installed, you will be prompted to halt your computer, remove the live DVD/USB stick and restart the computer.

Ensure that you follow these shut-down and restart instruction steps in the same order.

Tryck på Avsluta när du är redo.

When you restart, you will see a succession of download progress bars. These indicate that the software media lists are being downloaded (see Software Management).

13. Användarhantering

13.1. Ställ in ett administratörs (root) -lösenord:

It is advisable for all Mageia installations to set a superuser (Administrator) password, usually called the root password in Linux. You need to repeat the same password in the box underneath, to check that the first entry was not mistyped.

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.

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.

13.2. Lägg till en användare

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.

- **Ikon**
  
  Klicka på den här knappen om du vill ändra på användarens ikon

- **Fullständigt namn**
  
  Klistra in användarens riktiga namn i den här textfältet.

- **Inloggningssignatur**
  
  Enter the user login name or let DrakX use a version of the user's real name. The login name is case-sensitive.
The login entered here should be different to any login currently in use for your /home directory. Some user parameters will be written in the user space, and some can overwrite actual data such as Firefox, Thunderbird or Kmail data...

• Lösenord

Type in the user password (remembering the advice in the Note above).

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.

Rättigheterna för åtkomst kan också ändras efter installationen.

14. Inloggningsskärm

Inloggningsskärm för SDDM

Finally, you will come to the desktop login screen.

Enter your user name and user password, and in a few seconds you will find yourself with a loaded KDE Plasma or GNOME desktop, depending on which live medium you used. You can now start using and enjoying your Mageia installation.

You can find further documentation in the Mageia wiki [https://wiki.mageia.org/en/Main_Page].

15. Avinstallera 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 → Control Panel → Administrative Tools → Computer Management → Storage → 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.