

Mageia NetInstall

The tool to install Mageia with remote repositories



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This manual was produced with the help of the [Calenco CCMS](https://www.calenco.com) [https://www.calenco.com].

#. # ##### # # # # # #
[https://wiki.mageia.org/en/Documentation_team]# #####.

Mageia NetInstall

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Installing Mageia using a Tiny Boot Image	1
1. ##	1
1.1. NetInstall Media	1
1.2. Installation Stages	1
2. Stage 1 (Pre-installation Stage)	2
2.1. ##	2
2.2. Installation Method	3
2.3. Network Connection	6
2.4. Mirrors	8
3. Stage 2 (Installation Stage)	10
3.1. ### ### ### ###	10
3.2. ##### ### ##	11
3.3. SCSI ##	11
3.4. ## ## #####	11
3.5. ###	12
3.6. #####	12
3.7. #####	15
3.8. ### ##	16
3.9. ### ##	17
3.10. #####	19
3.11. ## ##	21
3.12. ###	23
3.13. ### ##	24
3.14. ### ##	24
3.15. ## ##	24
3.16. ## ##	24
3.17. ###	25
3.18. #####	25
3.19. #####.	25
3.20. Mageia ##	26

##

1. BIOS Welcome Screen	2
2. UEFI Welcome Screen	3
3. EFI ### ###	14
4. BIOS ## ###	14

Installing Mageia using a Tiny Boot Image

1.

1.1. NetInstall Media

1.1.1.

These minimal ISO's contain:

- less than 120 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 DrakX-installer-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.

1.1.2. Availability

There are 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: <https://www.mageia.org/downloads/>

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: https://wiki.mageia.org/en/Installation_Media#Dump_Mageia_ISO_s_on_an_USB_stick

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. This network can be a WiFi connection with WEP or WPA2 encryption (though please be mindful of the Warning below regarding keyboard input).
- **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, you will be asked to type things during the first part of a Network installation (**Stage 1**). Throughout this stage, however, your keyboard will operate as per an [American keyboard](https://en.wikipedia.org/wiki/Keyboard_layout#United_States) [https://en.wikipedia.org/wiki/Keyboard_layout#United_States] layout. Please bear this in mind to avoid confusion when entering things like names and paths etc.

2. Stage 1 (Pre-installation Stage)

2.1.

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-Help] [F2-Advanced Help]
boot: _
```

1. BIOS Welcome Screen

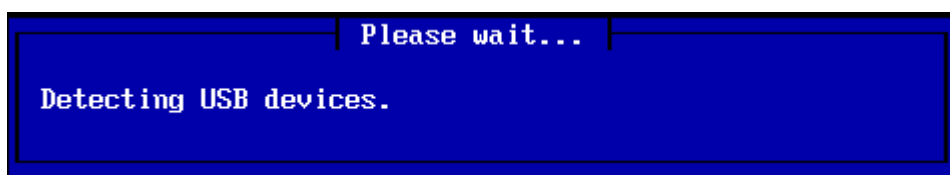
When booting up, you can choose to read the advanced help by pressing **F2** and return to the installer screen by pressing **F1**. Otherwise, the boot will continue with default settings.



2. UEFI Welcome Screen

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

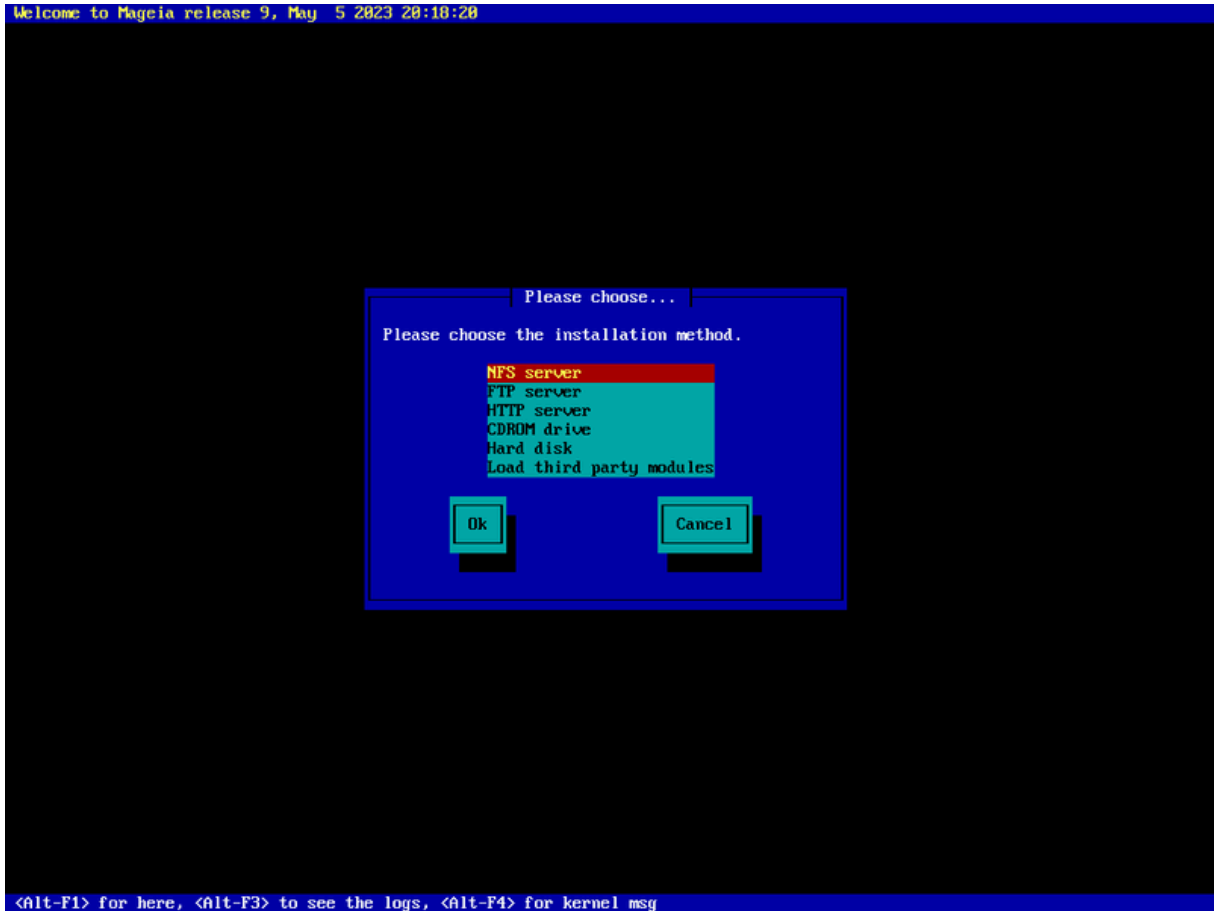
For both BIOS and UEFI systems, you will then see a pop-up notification saying that USB devices are being detected:



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**.

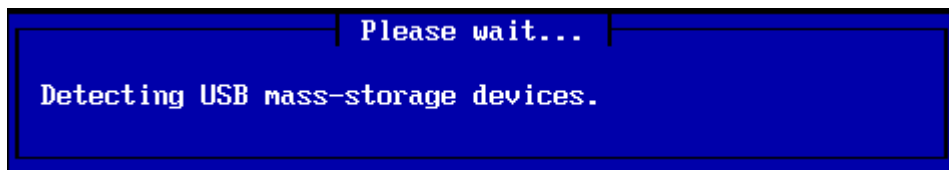
2.2.1.

- 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 [Network Connection](#) section.

2.2.2. CDROM/HDD

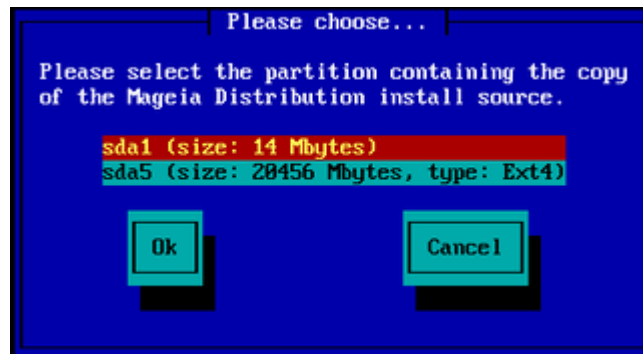
If you choose to install from either a CDROM or hard disk (or USB stick), a scan for storage devices will be performed:



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

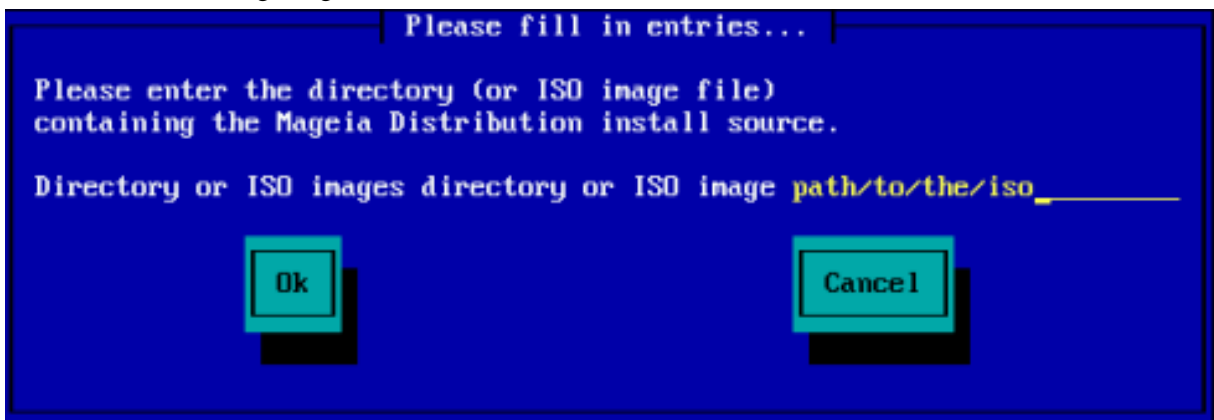


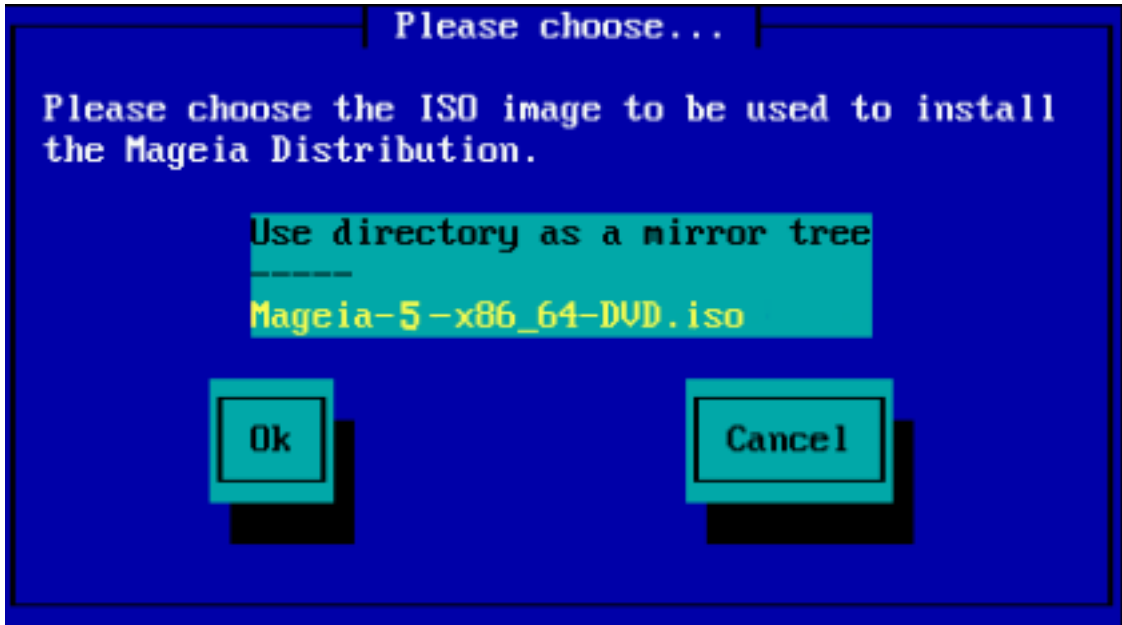
- Followed by the relevant partition



- 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 [Stage 2](#) (the actual installation stage).

2.2.3. Load Third-Party Modules

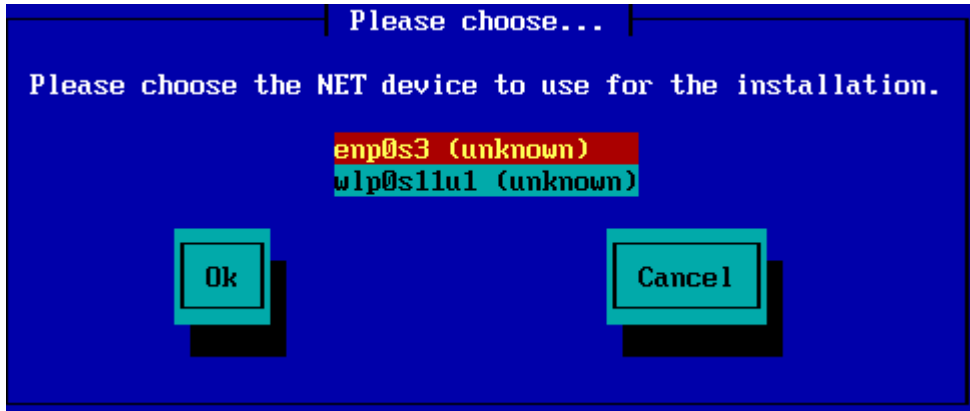
If you wish to *Load third-party modules*, then you will be asked for the location of the directory containing the modules:



2.3. Network Connection

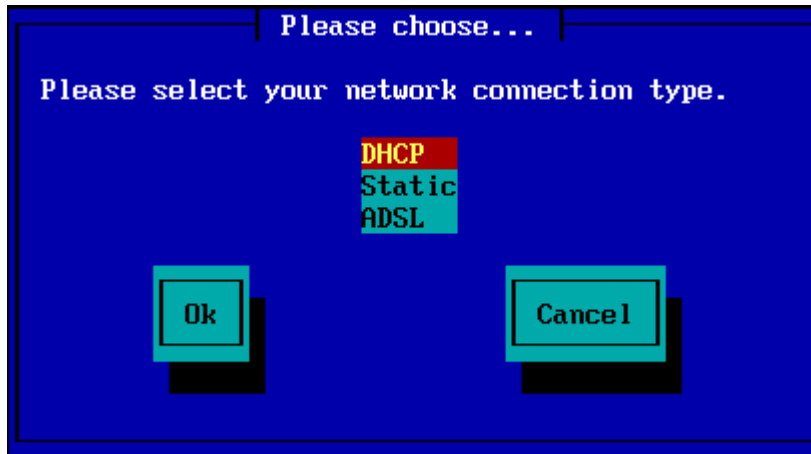
2.3.1. Connection Device

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

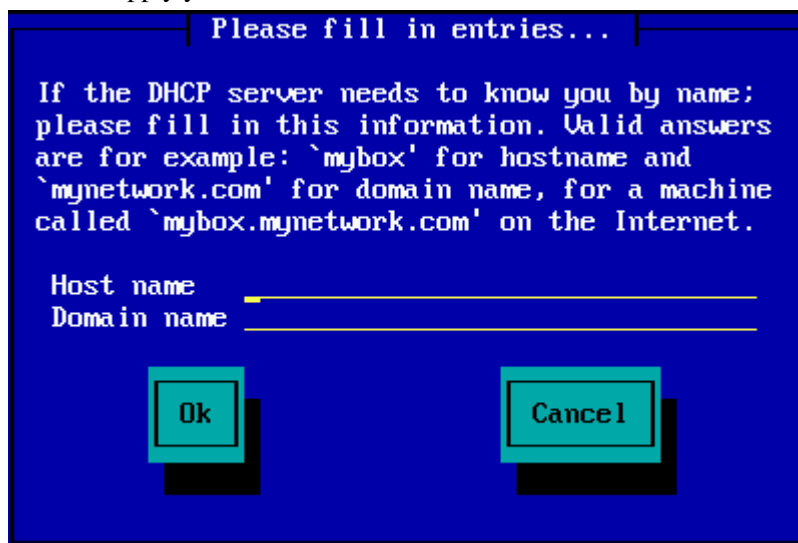
Now you need to choose whether the network device will use a DHCP, Static or ADSL connection:



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

2.3.3. Host/Domain Names

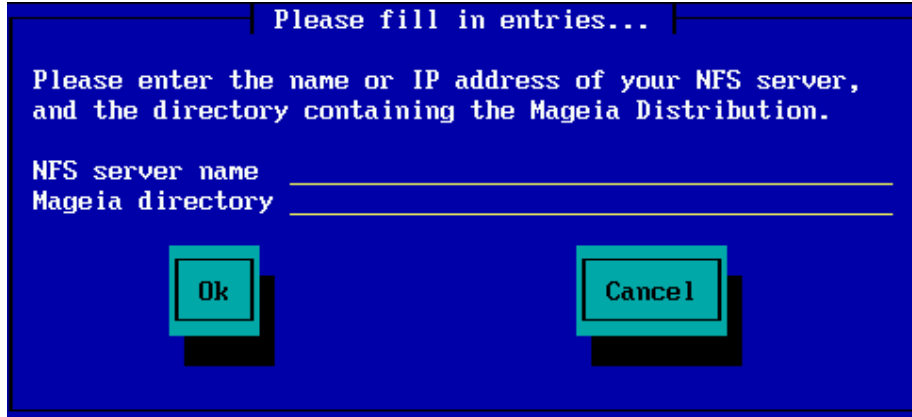
If necessary, you can now supply your Host and Domain names:



- 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:



After entering the NFS details, you will automatically proceed to [Stage 2](#) (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:

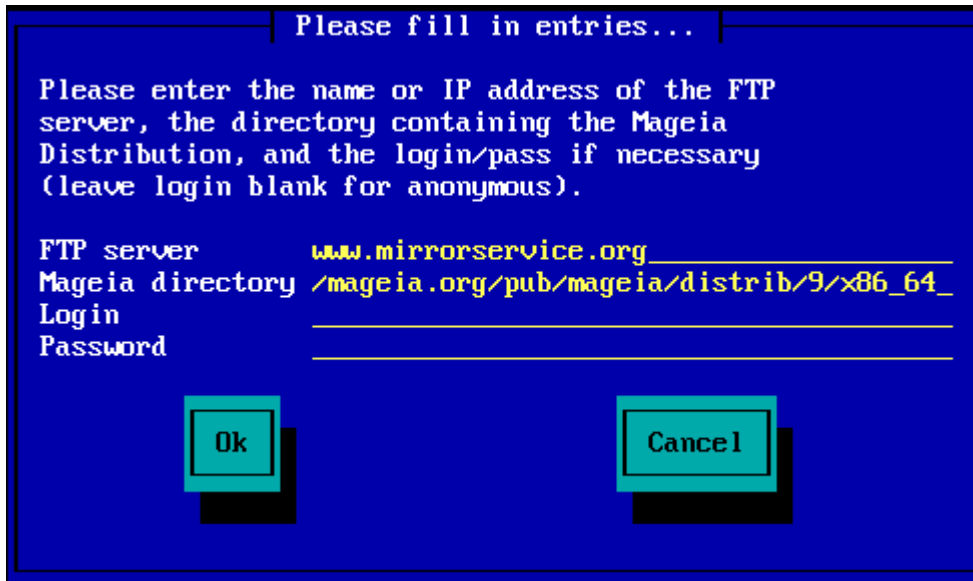
```
pub/linux/mageia/distrib/cauldron/i586
```

Another example (for Mageia 6 x86_64) could be:

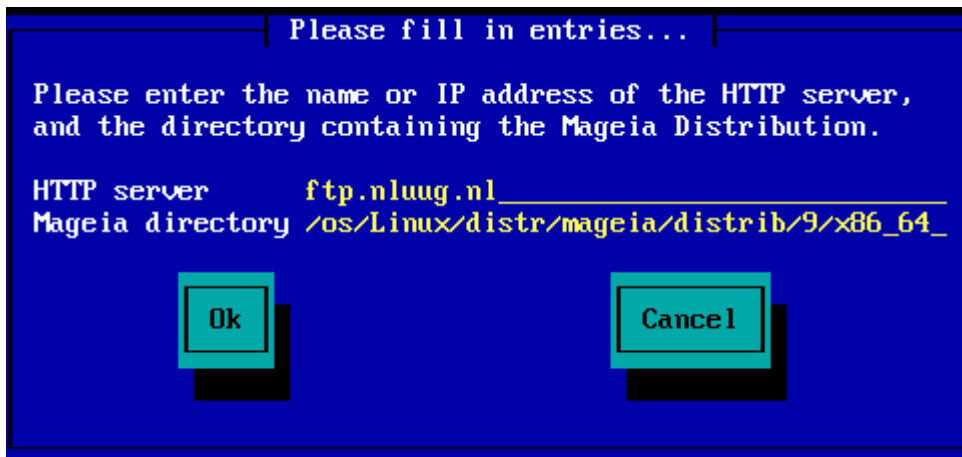
```
pub/Mirrors/Mageia/distrib/6/x86_64
```

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

If you are using an FTP server:



If you are using an HTTP server:



Once this information has been provided, you will automatically proceed to [Stage 2](#) (the actual installation stage).

2.4.2. Select From a List

If you get a lot of missing dependency errors later in the install, reboot and try a different mirror.

