

How to install Zeroshell on Hard Disk



The multifunctional OS created by
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www.zeroshell.net

Installing on hard disk

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How to install Zeroshell on hard disk:

This short guide will lead us installing Zeroshell on a hard disk.

How to begin

Enabling SSH connection via web

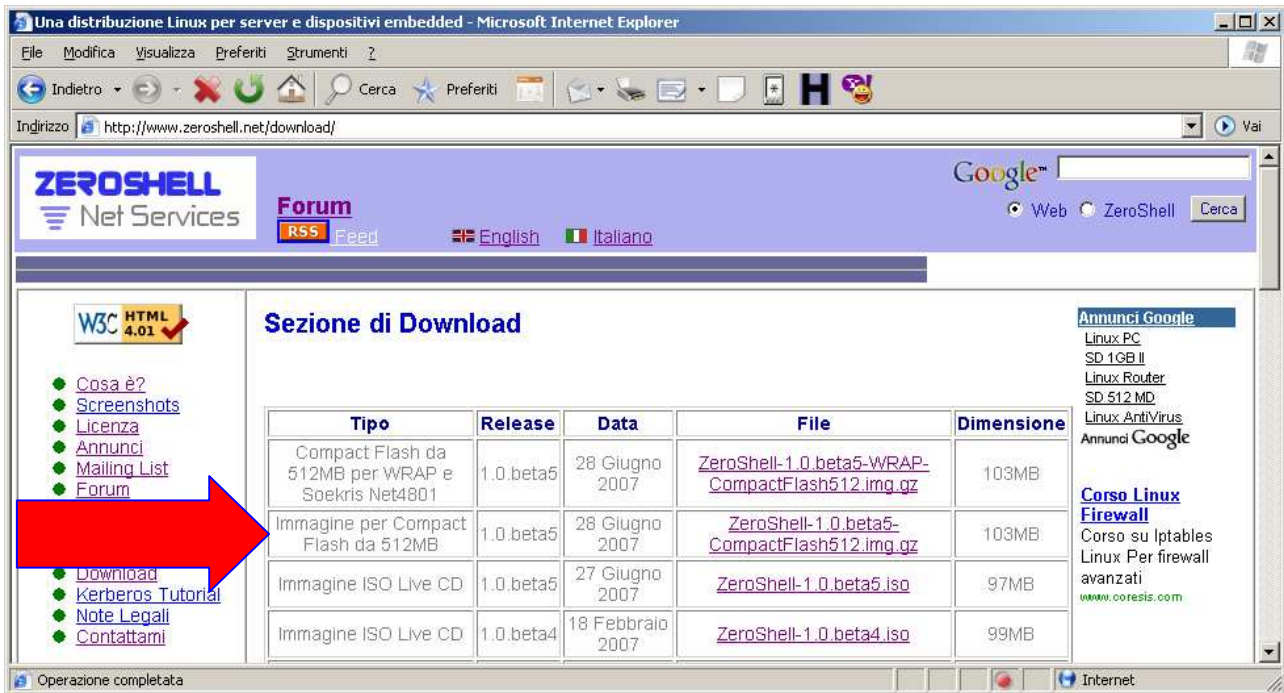
Check hard drives

Preparing the destination disk

Mounting USB device and installing Zeroshell system

How to begin:

To install Zeroshell on a hard drive we need to download from official website the image for Compact Flash. Click in left frame Download and begin the download:



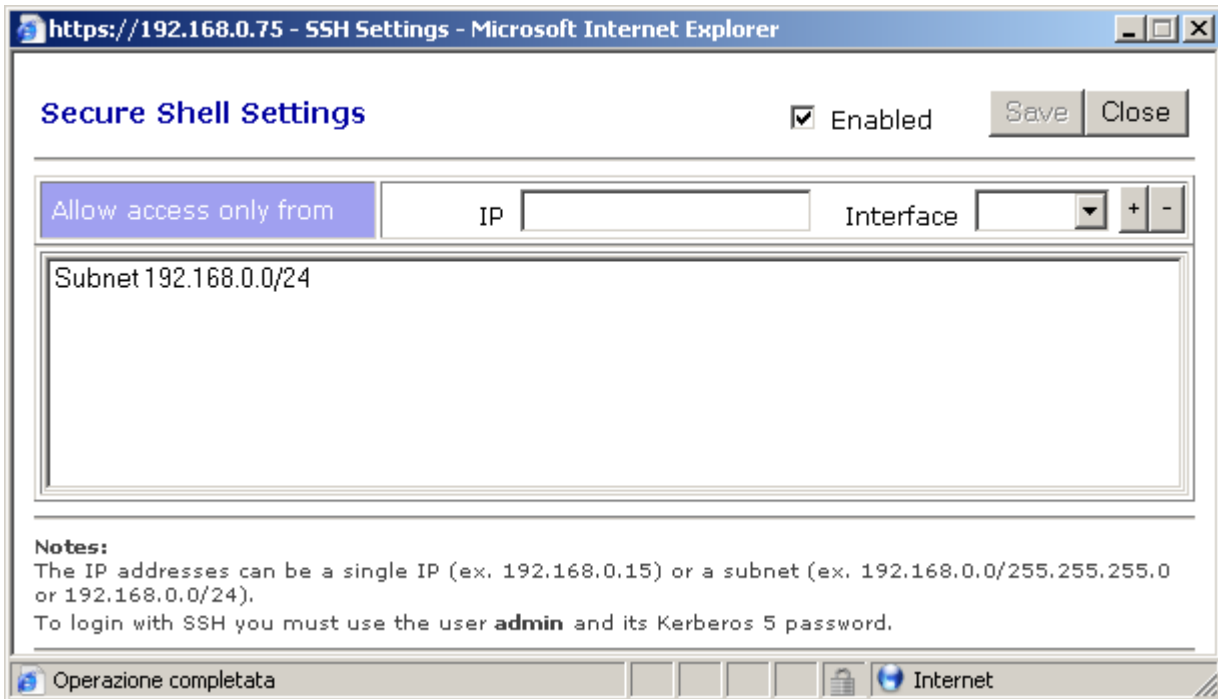
The screenshot shows the ZeroShell website in Microsoft Internet Explorer. The browser title is "Una distribuzione Linux per server e dispositivi embedded - Microsoft Internet Explorer". The address bar shows "http://www.zeroshell.net/download/". The page features a navigation menu with "Forum", "RSS", "Feed", "English", and "Italiano". A search bar with "Google" is present. The main content area is titled "Sezione di Download" and contains a table of download links. A red arrow points to the "Download" link in the left sidebar.

Tipo	Release	Data	File	Dimensione
Compact Flash da 512MB per WRAP e Soekris Net4801	1.0.beta5	28 Giugno 2007	ZeroShell-1.0.beta5-WRAP-CompactFlash512.img.gz	103MB
Immagine per Compact Flash da 512MB	1.0.beta5	28 Giugno 2007	ZeroShell-1.0.beta5-CompactFlash512.img.gz	103MB
Immagine ISO Live CD	1.0.beta5	27 Giugno 2007	ZeroShell-1.0.beta5.iso	97MB
Immagine ISO Live CD	1.0.beta4	18 Febbraio 2007	ZeroShell-1.0.beta4.iso	99MB

Rename the downloaded file in zeroshell.img.gz for an easy use and copy it on your usb pendrive. Put the usb pendrive in a usb port on your Zeroshell machine booted from CD.

Enabling SSH connection via web:

Once Zeroshell has booted from cd we can insert the usb pendrive containing **ZeroShell-1.0.beta5-CompactFlash512.img**. Using the web interface of Zeroshell click on SSH menu and enable it for the local subnet:



Save and then you will be able to connect to Zeroshell using SSH client (es: putty):

```
-----  
Authentication Required  
-----  
admin password:  
Successfully authenticated  
  
Type exit or Ctrl+D to return to main menu.
```

Check hard drives:

Now we go to check if Zeroshell has found our hard drives (hard disk and usb pen drive):

```
root@zeroshell root> fdisk -l

Disk /dev/hda: 10.1 GB, 10110320640 bytes
16 heads, 63 sectors/track, 19590 cylinders
Units = cylinders of 1008 * 512 = 516096 bytes

   Device Boot      Start         End      Blocks   Id  System
/dev/hda1            1         1985     1000408+   83  Linux

Disk /dev/sda: 2063 MB, 2063597568 bytes
255 heads, 63 sectors/track, 250 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes

   Device Boot      Start         End      Blocks   Id  System
/dev/sda1    *            1          251     2015200+   b  W95 FAT32
Partition 1 has different physical/logical endings:
   phys=(249, 254, 63) logical=(250, 225, 39)
root@zeroshell root>
```

My iDE disk is /dev/hda and my usb pendrive is /dev/sda1.

Preparing the destination disk:

There's no need to modify the partition table of your disk because when we explode the zeroshell image on the disk, everything is automatically done.

Mounting USB device and installing Zeroshell system:

Now we got mount usb pendrive /dev/sda1 to use the file in it. Before I have to create the directory "chiavetta" nella /mnt:

```
root@zeroshell root> cd /mnt/  
root@zeroshell mnt> mkdir chiavetta  
root@zeroshell mnt> ls  
chiavetta loopl  
root@zeroshell mnt>
```

```
root@zeroshell mnt> cd /  
root@zeroshell /> mount /dev/sda1 /mnt/chiavetta  
root@zeroshell />
```

The /mnt/chiavetta is now ready be be used to install Zeroshell:

```
root@zeroshell /> cd /mnt/chiavetta  
root@zeroshell chiavetta>  
  
root@zeroshell chiavetta> gunzip -c zeroshell.img.gz>/dev/hda  
  
root@zeroshell chiavetta>  
  
root@zeroshell chiavetta> reboot  
  
Broadcast message from root (pts/0) (Mon Jul 16 21:24:10 2007):  
  
The system is going down for reboot NOW!  
root@zeroshell chiavetta>
```

Remove the usb pendrive and reboot the system (without the cd), it will boot from hard disk now...