

## How to install Zeroshell on Hard Disk



The multifunctional OS created by  
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[www.zeroshell.net](http://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**

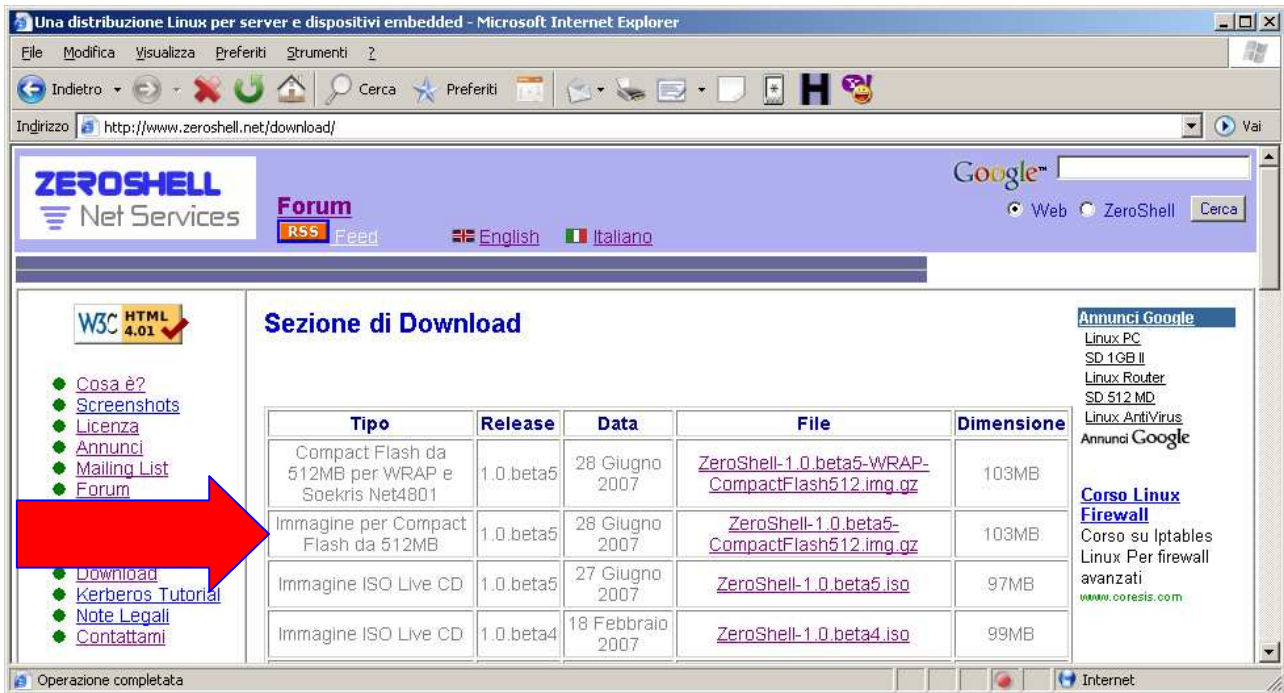
**Check hard drives**

**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:



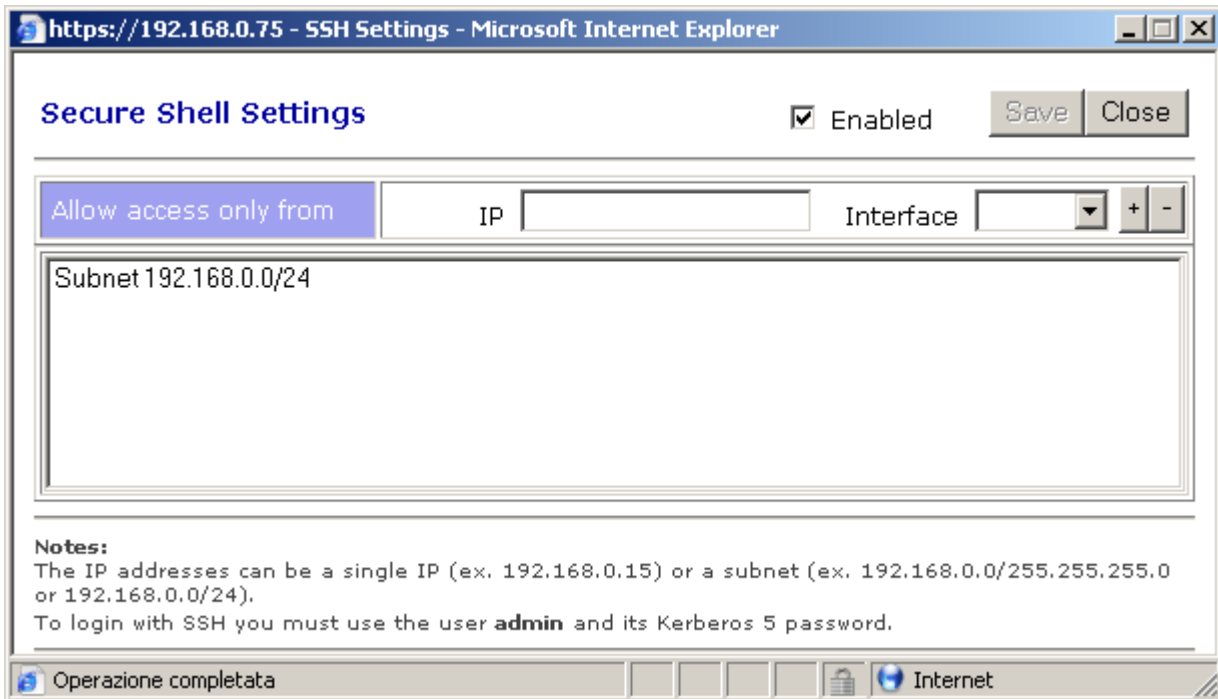
The screenshot shows the ZeroShell website in Microsoft Internet Explorer. The browser title is "Una distribuzione Linux per server e dispositivi embedded - Microsoft Internet Explorer". The address bar shows "http://www.zeroshell.net/download/". The page features the ZeroShell logo, a search bar, and a navigation menu. A sidebar on the left contains links: "Cosa è?", "Screenshots", "Licenza", "Annunci", "Mailing List", "Forum", "Download", "Kerberos Tutorial", "Note Legali", and "Contattami". A red arrow points to the "Download" link. The main content area is titled "Sezione di Download" and contains a table with download options.

| Tipo  | Release   | Data             | File  | Dimensione |
|---|-----------|------------------|---|------------|
| Compact Flash da 512MB per WRAP e Soekris Net4801 | 1.0.beta5 | 28 Giugno 2007   | <a href="#">ZeroShell-1.0.beta5-WRAP-CompactFlash512.img.gz</a> | 103MB      |
| Immagine per Compact Flash da 512MB               | 1.0.beta5 | 28 Giugno 2007   | <a href="#">ZeroShell-1.0.beta5-CompactFlash512.img.gz</a>      | 103MB      |
| Immagine ISO Live CD                              | 1.0.beta5 | 27 Giugno 2007   | <a href="#">ZeroShell-1.0.beta5.iso</a>                         | 97MB       |
| Immagine ISO Live CD                              | 1.0.beta4 | 18 Febbraio 2007 | <a href="#">ZeroShell-1.0.beta4.iso</a>                         | 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...