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Important Information

Latest Software
We recommend that you install the most recent software release to stay up-to-date with the latest functional improvements, stability fixes, security enhancements and protection against new and evolving attacks.

Latest Documentation
The latest version of this document is at:
http://supportcontent.checkpoint.com/documentation_download?ID=11798
For additional technical information, visit the Check Point Support Center (http://supportcenter.checkpoint.com).

Revision History

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<th>Date</th>
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<tr>
<td>4/24/2012</td>
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Feedback
Check Point is engaged in a continuous effort to improve its documentation. Please help us by sending your comments (mailto:cp_techpub_feedback@checkpoint.com?subject=Feedback on How To Install IPSO 6.2 ).
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How To Install IPSO 6.2

Objective

This is how to do fresh installation for IPSO 6.2, including the procedure how to upgrade the boot manager.

Supported Versions

- R70

Supported Operating Systems

- IPSO 6.2

Supported Appliances

- IP2450
- IP1280
- IP690
- IP560
- IP390
- IP150

Before You Start

Requirements

- Firewall
- Switch
- 2 cables, plug the cables from your PC to your switch and from switch to the firewall
- Computer with a terminal emulation program
- HyperTerm, TeraTerm or SecureCRT (Windows)
- cu or tip (UNIX)
- A DTE (Date Terminal Equipment) with a EIA/TIA-232 connection to an IPSO console port
- Serial Port Settings on DTE
  - 9600 bps
  - 8 data bits
  - 1 stop bit
  - No parity
  - No flow control
Related Documents and Assumed Knowledge

- IPSO Boot Manager Reference Guide
  (http://supportcontent.checkpoint.com/documentation_download?ID=10353)
- IPSO 6.2 Release Notes and Getting Started Guide
  (http://supportcontent.checkpoint.com/documentation_download?ID=10292)

Impact on Environment and Warnings

- This will remove all the IPSO and Check Point components on the firewall.

Installation Procedure

Step 1

To upgrade the boot manager:
1. Obtain the boot manager you want to install.
   If you have access to the Check Point support site, you can download the boot manager from the same
   page you would use to download IPSO system software. Make sure that you rename the file from:
   nkipflash-6.2.bin
   To:
   nkipflash
2. Mount the root directory so you can move nkipflash to: etc.
   Execute: mount uw /
3. Move the file to: /etc/nkipflash
4. To upgrade or downgrade the boot manager, at the IPSO command prompt, enter:
   /etc/upgrade_bootmgr [wd0 | wd1] /etc/nkipflash

where [wd0 | wd1] refers to the location of the boot manager. These commands install, upgrade, or write it
into the hard disk drive or Flash memory (either wd0 or wd1, depending on which appliance you are using).
The process takes some time to complete. Do not interrupt the install, upgrade, or downgrade process.

Note - On the IP330, IP650 and IP100 series, the boot manager resides on wd0. For all other platforms
which use a boot manager, it resides on wd1 in multi-user mode. In single-user mode only, the IP350,
IP380, IP530, IP710, IP740, IP1220 and IP1260 IP appliance platforms use wd0.

Output:
Step 2

To install:

- Press any key to enter the Boot Manager, and press any key. At the BOOTMGR prompt, enter:

```
install
```

**Output:**

**Note:** User-generated answers are in **bold**
# IPSO Full Installation

You will need to supply the following information:
- Client IP address/netmask, FTP server IP address and filename,
- system serial number, and other license information.

This process will DESTROY any existing files and data on your disk.

Continue? (y/n) [n] y

Motherboard serial number is 83082400063.

Enter the serial number of your motherboard.
The chassis serial number can be found on a sticker on the back of the unit with the letters S/N in front of the serial number.

Answer the following licensing questions:

Select a product from the following:
1. IP400 Series
2. IP600 Series
3. IP300 Series
4. IP100 Series
5. IP700 Series
6. IP500 Series
7. IP2250 Series
8. IP1200 Series
9. IP200 Series

Which product are you installing? : [1] 4

Will this node be using IGRP ? [y] n

Will this node be using BGP ? [y] n

Selected ad4 as install device

1. Install from anonymous FTP server.
2. Install from FTP server with user and password.

Choose an installation method (1-2):  2

Enter IP address of this client (0.0.0.0/24): 172.26.109.150/24
Enter IP address of FTP server (0.0.0.0): 172.26.109.25
Enter IP address of the default gateway (0.0.0.0): 172.26.109.1

Choose an interface from the following list:
1) eth1
2) eth2
3) eth3
4) eth4

Enter a number [1-4]: 2

Choose interface speed from the following list:
1) 10 Mbit/sec
2) 100 Mbit/sec
3) 1000 Mbit/sec

Enter a number [1-3]: 2
Half or full duplex? [h/f] [h] f

Enter user name on FTP Server : admin
Enter password for "admin":
Enter path to ipso image on FTP server [~]: /
Enter ipso image filename on FTP server [ipso.tgz]:

1. Retrieve all valid packages, with no further prompting.
2. Retrieve packages one-by-one, prompting for each.
3. Retrieve no packages.
Completing the Procedure

Enter choice [1-3] [1]: 3

Client IP address = 172.26.109.150/24
Server IP address = 172.26.109.25
Default gateway IP address = 172.26.109.1
Network Interface = eth2, speed = 100M, full-duplex
Server download path = [//]
Package install type = none
Mirror set creation = no

Are these values correct? [y]
Image version tag: IPSO-6.2-GA022-08.05.2009-034743-1.
/dev/ad4s1 ready for labeling.
Metadata value stored on /dev/ad4s1.
Done.

Building filesystems...done.
Making initial links...done.
Downloading compressed tarfile(s) from 172.26.109.25.
331 Password required for admin
230 Logged on
230 Remote system type is UNIX.
Hash mark printing on (1048576 bytes/hash mark).
Interactive mode off.
200 Type set to I
250 CWD successful. "/" is current directory.
local: ipso.tgz remote: ipso.tgz
229 Entering Extended Passive Mode (|||3905|)
150 Connection accepted
226 Transfer OK
49620583 bytes received in 00:04 (10.91 MB/s)
221 Goodbye
Checking validity of image...done.
Installing image...done.
Checking if bootmgr upgrade is needed...
No need to upgrade bootmgr.
Do you want to upgrade bootmgr anyway? [n]

Installation completed.

Reset system or hit <Enter> to reboot.

Completing the Procedure

After the system has rebooted:

Output:

Note: User-generated answers are in bold
Completing the Procedure

How To Install IPSO 6.2

Hostname? IP150
Hostname set to "IP150", OK? [y]

Please enter password for user admin:
Please re-enter password for confirmation:

You can configure your system in two ways:

1) configure an interface and use our Web-based Voyager via a remote browser
2) configure an interface by using the CLI

Please enter a choice [ 1-2, q ]: 1

Select an interface from the following for configuration:

1) eth1
2) eth2
3) eth3
4) eth4
5) quit this menu

Enter choice [1-5]: 2

Enter the IP address to be used for eth2: 172.26.109.150

Enter the masklength: 24

Do you wish to set the default route [ y ] ? y

Enter the default router to use with eth2: 172.26.109.1

This interface is configured as 1000 mbs by default.
Do you wish to configure this interface for other speeds [ n ] ? y

Enter the speed (100M or 10M) for interface: 100M

This interface is configured as half duplex by default.
Do you wish to configure this interface as full duplex [ n ] ? y

You have entered the following parameters for the eth2 interface:

- IP address: 172.26.109.150
- masklength: 24
- Default route: 172.26.109.1
- Speed: 100M
- Duplex: full

Is this information correct [ y ] ?

Do you want to configure Vlan for this interface[ n ] ?

You may now configure your interfaces with the Web-based Voyager by typing in the IP address "172.26.109.150" at a remote browser.

Do you want to change SNMP Community string [ n ] ?

IPSO/i386 (IP150) (ttyd0)

This system is for authorized use only.

•
Verifying

Issue the following command at the console:

```
#uname -a
```

This will return the currently installed version of IPSO for you to verify that it has installed correctly.
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