How To Convert IP560 from Flash to Disk-based

7 February 2011
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=11946

For additional technical information, visit the Check Point Support Center (http://supportcenter.checkpoint.com).

Revision History

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<td>1/17/2011</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 Convert IP560 from Flash to Disk-based ).
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How To Convert an IP560 from Flash-Based to Disk-Based

Objective

To have a simple step-by-step procedure documented and accompanied by the necessary script all in one place so customers can easily access this commonly requested information.

Supported Versions

- All versions of IPSO that are supported by the IP560

Supported OS

- IPSO

Supported Appliances

- IP560

Before you Start

Assumed Knowledge

Be proficient enough with the IPSO CLI to be able to move files around and understand UNIX file protection parameters.

Related Documentation

Requires a script called diskbased_1gb.sh (http://supportcontent.checkpoint.com/file_download?id=11179).

Warning

Warning:

Before performing this conversion, verify that the BIOS on the IP560 is at least at version:

- 02.06.5025 with a date code of 04/25/2006.

If the BIOS on the appliance predates this, upgrade the BIOS before executing the procedure.

To check the BIOS version:

- From the IPSO CLI, execute:
  
  ipsctl -a | grep bios
Conversion Procedure:

Converting the IP560 from Flash to Disk based

Conversion Procedure:

1. Ensure Power to IP560 is disconnected.
2. Remove any PCMCIA card that may be present in the device.
4. Connect a console cable from laptop to IP560.
5. Turn on the power to the appliance.
6. Log into the CLI with the ‘admin’ user (or with admin user-rights).
8. Copy the diskbased_1gb.sh file onto the IP560 via FTP.
9. By default the file will not be executable, therefore make it executable. At the command line enter:
   ```bash
   chmod +x diskbased_1gb
   ```
10. Execute the file. Enter:
    ```bash
    ./diskbased_1gb
    ```

The file diskbased_1gb is a shell script that will perform the conversion. Once executed, the IP560 will reboot.

When the appliance reboots it will display a BOOTMGR prompt. At this point a fresh installation of IPSO onto the new hard disk is required.

Completing the Procedure

Allow the appliance to boot into BOOTMGR
- At the prompt type `install` and follow the standard IPSO installation procedure.

Verifying the Procedure

Check that `/var` and `/opt` partitions are now both mounted on the hard disk (`/dev/wd0`). To do this, execute:
```bash
df -k.
```

Below is an example output of a correctly converted disk-based IP560:

```
TOP[admin]# df -k
Filesystem 1K-blocks Used Avail Capacity Mounted on
/dev/wd0f 598029 85871 464316 16% /
/dev/wd0a 37556 32 34520 0% /config
/dev/wd0d 30978766 287029 28213436 1% /var
/dev/wd0e 5268700 268396 4578808 6% /opt
procfs 4 4 0 100% /proc
```