

VIOS Version 2.2.0.12



Release Notes

VIOS Version 2.2.0.12



Release Notes

Note

Before using this information and the product it supports, read the information in “Notices,” on page 11.

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Chapter 1. Installation, migration, upgrade, and configuration information

The following information applies to Virtual I/O Server (VIOS).

Note: This software might contain errors that could result in critical business impact. Install the latest available update packages prior to using this software.

The method of VIOS update distribution is undergoing a transition from the VIOS website at <http://www14.software.ibm.com/webapp/set2/sas/f/vios/download> to the IBM® Fix Central site. For a period of time during this transition, updates will be available on both sites. When the transition is complete, the VIOS website will direct you to the IBM Fix Central site for downloads. To obtain VIOS updates directly from Fix Central go to www.ibm.com/support/fixcentral and select the following:

- Product Group: System p®
- Product: Virtualization Software
- Product: Virtual I/O Server

To view the most current version of the VIOS release notes, go to the online version of the Virtual I/O Server release notes.

All users of the VIOS must subscribe to the VIOS subscription service. Subscribing to this service enables users to stay current on VIOS news and critical product updates. To subscribe, go to the following website and click the **Subscribe/Setup** tab:

<http://www14.software.ibm.com/webapp/set2/subscriptions/pqvcmj>

VIOS Version 2.2.0.12 installation changes

- | The VIOS software is distributed on 2 DVDs. The first DVD contains the VIOS install image using English and the second DVD contains the language filesets for all the other languages.
- | If you want to install another language fileset after the initial installation is complete, insert the second DVD into the DVD drive and refer to the **CLI chlang** command.

Memory requirements

The minimum memory requirement for VIOS Version 2.2.0.12 varies based on the configuration.

A general rule for a minimum current memory requirement for VIOS Version 2.2.0.12 is 512 MB. A smaller minimum current memory requirement might support a configuration with a very small number of devices or a small maximum memory configuration.

VIOS Version 2.2.0.12 requires the minimum current memory requirement to increase as the maximum memory configuration or the number of devices scales upward, or both. Larger maximum memory configurations or additional devices scale up the minimum current memory requirement. If the minimum memory requirement is not increased along with the maximum memory configuration, the partition freezes during the initial program load (IPL).

ROOTVG requirements

- | VIOS now requires a minimum of 30 GB disk space for installation. Ensure that the disk allocated for the VIOS installation contains at least 30 GB of available space before you attempt to install VIOS.

Host Ethernet Adapter memory requirements

Configurations that contain one or more Host Ethernet Adapter (HEA) require more memory than the 512 MB minimum. Each logical HEA port that is configured requires an additional 102 MB of memory. The minimum memory requirement for configurations with one or more HEA ports, where n is the number of HEA ports, is 512 MB + $n \times 102$ MB.

Migrating the VIOS from Version 1.5, or later, to Version 2.2.0.12

Use the VIOS Migration DVD to migrate from VIOS Version 1.5, or later, to VIOS Version 2.2.

- | You can view the following versions of the VIOS migration image:
- | 1. You can view the installation requirements for the Version 2.1.3 at The Virtual I/O Server 2.1 VIOS 2.1.3.10 Migration DVD Readme.
- | 2. You can view the installation requirements for the Version 2.1.0 at VIOS 2.1.0.0 Migration DVD Virtual I/O Server 1.0.0.0 VIOS 2.1.0.0 Migration DVD Readme.

After the migration is complete, download and install Fix Pack 24.

Pre-migration steps

You must perform the pre-migration steps before you start migrating the VIOS:

- | 1. Back up your current VIOS.
- | 2. Use the **startnetsvc** command to determine any services that were started, and record these.
- | 3. Use the **lssvc** command to see a list of all of the agents.
- | 4. Use the **lssvc <agent_name>** command to determine the parameters set for a particular agent. Record these so that the agent can be reconfigured after they migration with the same parameters.
- | 5. If you created an **motd** banner, save it in a secure directory.

Migrating the VIOS from a migration DVD

To migrate the VIOS from a migration DVD, complete the following steps:

- | 1. Activate the VIOS logical partition using the HMC (version 7 or later) by completing the following steps:
 - a. Ensure the DVD device is assigned to the VIOS partition.
 - b. Insert the VIOS migration DVD into the DVD drive.
 - c. In the HMC navigation area, expand Systems Management Servers.
 - d. Select the VIOS logical partition server.
 - e. In the contents area, select the VIOS logical partition.
 - f. Shutdown VIOS by completing the following steps:
 - 1) Select **Tasks>Operations>Shutdown**.
 - 2) In the Shutdown menu, select **delayed**, then select **OK**.
 - g. Select **Open a terminal window or console session** to open a virtual terminal (vterm) window.
 - h. Select **(Advanced)** to open the advanced options menu.
 - i. Select **SMS** for the boot mode.
 - j. Click **OK** to close the advanced options menu.
 - k. Click **OK**. A virtual terminal window opens for the logical partition.
 - l. Once the VIOS logical partition is inactive, select **Tasks>Operations>Activate**. The **Activate Partition** menu opens with a selection of logical partition profiles. Ensure that the correct profile is highlighted.
- | 2. Select a boot device by completing the following steps:
 - a. Select **Select Boot Options** and press **Enter**.

- b. Select Select Install/Boot Device and press Enter.
 - c. Select CD/DVD and press Enter.
 - d. Select the device number that corresponds to the DVD and press Enter. You can also select List all devices, select the device number from the list, and then press Enter.
 - e. Select Normal mode boot.
 - f. Select Yes to exit SMS.
3. Install the VIOS by completing the following steps:
 - a. Select a console and press Enter.
 - b. Select a language for the BOS menus and press Enter.
 - c. Select Change/Show Installation Settings and Install .
If the title displayed is not VIOS Migration Installation and Settings, replace the DVD that is in the drive with the correct DVD before continuing to the next step.
 - d. Select Install with the setting listed above.
 - e. Select Continue with Install.
 - f. Select Continue with migration.
 4. Complete the following post-migration tasks:
 - a. Verify that the migration was successful by completing the following steps:
 - 1) Check the results of the **installp** command.
 - 2) Run the **ioslevel** command. The results must indicate that the ioslevel is \$ ioslevel 2.1.0.0.
 - \$ ioslevel 2.1.3.10-FP23 if you used migration image Version 2.1.3.
 - \$ ioslevel 2.1.0.0 if you used migration image Version 2.1.0.

Post-migration steps

After you complete a migration, complete the following steps:

1. Restart the daemons and agents that were previously running by doing the following:
 - a. Log on to the VIOS as a padmin user.
 - b. Enter the following command:


```
$ motd -overwrite "<enter previous banner message>"
```
 - c. Run the **cfgsvc** command to reconfigure all of the agents by using the configuration data that you saved in the pre-migration steps.
 - d. Run the **startsvc** command to start the agents.
 - e. Run the **startnetsvc** command to restart the services that were running before the migration using the information that you saved in the pre-migration steps.
 - f. Start any previously running daemons such as FTP or Telnet.
 - g. Download Fixpack 2.2.0.10–FP24. Directions for installing the Fixpack are available at the following website:

[Readme and Release Notes for Virtual I/O Server 2.2 VIOS 2.2.0.10 FixPack 24 Readme](#)

Updating a VIOS from version 2.1.0, 2.1.1, or 2.1.2 to version 2.2.0

To update a VIOS from either version 2.1.0, 2.1.1, or 2.1.2 to version 2.2.0, complete the following steps:

1. Download Fixpack 2.2.0.10-FP24.
2. Complete the directions to install the Fixpack that are available at the following website:

[Readme and Release Notes for Virtual I/O Server 2.2 VIOS 2.2.0.10 FixPack 24 Readme](#)

Chapter 2. VIOS Version 2.2.0.12 enhancements

This release of VIOS contains several enhancements. These enhancements are made in the area of POWER Virtualization. The following section describes the features of each element by product area.

VIOS

- | • AIX enablement of Gigabit Ethernet on QLogic 8 GB Fiber Channel Blade Expansion Card (model number 8271)
- | • Support for two socket POWER7[®] systems (BladeCenter PS703 and BladeCenter PS704)
- | • Support for new SAS-based direct access storage device (DASD) drawer in POWER7[®] systems (model number 5887)
- | • Support for new 2.5" SAS SSD drives in 200 GB and 400 GB capacities (models 1775 and 1793)

Chapter 3. Software license agreements

There are instances where the software license agreements might not be displayed correctly. In this event, the license agreements can be viewed in all languages at the following website:

<http://www.ibm.com/software/sla/sladb.nsf>

Chapter 4. Online documentation for VIOS

For online documentation, see *Using the Virtual I/O Server* at the following website:

Virtual I/O Server

For additional documentation, including the Redbooks® publication, go to the following website:

<http://www14.software.ibm.com/webapp/set2/sas/f/vios/documentation/home.html>

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