NAME

server_upgrade – upgrade clients of a heterogeneous OS server

SYNOPSIS

server_upgrade –d <*install_image_dir*> [**–p** <*profile*>]

DESCRIPTION

Use this command to upgrade clients of a heterogeneous OS server that have different platforms (SPARC, x86) or platform groups (for example, sun4d, sun4L) from the OS server. This command is necessary because clients of an OS server are not upgraded during a standard upgrade if the installation image does not support their platform or platform group.

Following are the steps for performing a standard upgrade of an OS server and upgrading clients, followed by the steps for upgrading clients with different platforms and platform groups using the **server_upgrade** command. The steps assume you are mounting the Solaris CD locally, remotely, or otherwise making it available.

1. Using the Solaris CD that matches the platform of the OS server, boot the OS server and perform a standard upgrade. Only clients that have the same platform and platform group supported on the installation image are upgraded. For example, when you boot a SPARC server using a Solaris SPARC CD; all clients that are SPARC and share the same platform group are upgraded.
2. Reboot the OS server.
3. Insert a platform-specific CD into the CD-ROM drive. For example, if the OS server is a SPARC system, which shares services for both SPARC and x86 clients, you would load the x86 Solaris CD at this point.
4. At the root prompt, type:

   server_upgrade –**d** <*install_image_dir*> [–**p** <*profile*>]

   The command upgrades the platform-specific services for clients on the OS server from the installation image.
5. Reboot the OS server.
6. Repeat steps 3-5 to upgrade platforms or platform groups of other clients.

OPTIONS

–p <*profile*> Specify the full path to a custom JumpStart profile (a text file that defines how to install Solaris software on a system). For information on setting up a profile, see Installing Solaris Software.

NOTE: The profile must have the keyword set to upgrade.

–d <*install_image_dir*> Specify the path to the installation image. For example, **/cdrom/cdrom0**.

EXAMPLES

The following example shows the states of an OS server and its clients each time the **server_upgrade** command is used to upgrade clients. The scenario uses the **server_upgrade** command once to upgrade clients with different platforms (x86), and once to upgrade a client with a different platform group (sun4L).

Initial State of Solaris

The OS server is a sparc.sun4d, running Solaris 2.4, sharing the following services:

> Solaris 2.4 for sparc.{sun4c, sun4d, sun4e, sun4m, and sun4L}
> Solaris 2.4 for i386.i86pc
> Solaris 2.3 for sparc.{sun4c, sun4d, sun4e, sun4m}

Initial client states are:

Host name	Is A ...	Running ...
red	sparc.sun4c	Solaris 2.4
blue	sparc.sun4e	Solaris 2.4
yellow	sparc.sun4L	Solaris 2.4
green	i386.i86pc	Solaris 2.4
purple	sparc.sun4c	Solaris 2.3
brown	sparc.sun4e	Solaris 2.3

Upgrade the 2.4 OS server to 2.5

Use the SPARC Solaris 2.5 CD to upgrade the Solaris 2.4 OS server, then reboot the OS server.

After rebooting the OS server, it is running Solaris 2.5 and sharing the following services:

> Solaris 2.5 for sparc.{sun4c, sun4d, sun4m}
> Solaris 2.3 for sparc.{sun4c, sun4d, sun4e, sun4m}

Client states are:

Host name	Is A ...	Running ...	And is Now...
* red	sparc.sun4c	Solaris 2.5	bootable
blue	sparc.sun4e	Solaris 2.4	not bootable
yellow	sparc.sun4L	Solaris 2.4	not bootable
green	i386.i86pc	Solaris 2.4	not bootable
* purple	sparc.sun4c	Solaris 2.5	bootable
* brown	sparc.sun4e	Solaris 2.3	bootable

NOTE: Client brown can still be booted because it is running Solaris 2.3, which is supported by the OS server, and because Solaris 2.3 supports sun4e.

Upgrade the x86 clients and services

Insert the x86 Solaris 2.5 CD and type:

server_upgrade -d /cdrom/cdrom0

After rebooting the OS server, it is running Solaris 2.5 and sharing the following services:

> Solaris 2.5 for sparc.{sun4c, sun4d, sun4m}
> Solaris 2.5 for i386.i86pc
> Solaris 2.3 for sparc.{sun4c, sun4d, sun4e, sun4m}

Client states are:

Host name	Is A ...	Running ...	And is Now...
red	sparc.sun4c	Solaris 2.5	bootable
blue	sparc.sun4e	Solaris 2.4	not bootable

yellow	sparc.sun4L	Solaris 2.4	not bootable
* green	i386.i86pc	Solaris 2.5	bootable
purple	sparc.sun4c	Solaris 2.5	bootable
brown	sparc.sun4e	Solaris 2.3	bootable

Upgrade the sun4L (Hardware Partner) client and services

Insert the Hardware Edition Solaris 2.5 CD and type:

server_upgrade -d /cdrom/cdrom0

After rebooting the OS server, it is running Solaris 2.5 and sharing the following services:

> Solaris 2.5 for sparc.{sun4c, sun4d, sun4m, sun4L}
> Solaris 2.5 for i386.i86pc
> Solaris 2.3 for sparc.{sun4c, sun4d, sun4e, sun4m}

Client states are:

Host name	Is A ...	Running ...	And is Now...
red	sparc.sun4c	Solaris 2.5	bootable
blue	sparc.sun4e	Solaris 2.4	not bootable
* yellow	sparc.sun4L	Solaris 2.5	bootable
green	i386.i86pc	Solaris 2.5	bootable
purple	sparc.sun4c	Solaris 2.5	bootable
brown	sparc.sun4e	Solaris 2.3	bootable

State of sun4e clients

Client blue is not bootable because sun4e systems are not supported by Solaris 2.5. However, it can be made bootable again by using the Solstice Host Manager and adding the Solaris 2.4 services to the OS server.

Client states are:

Host name	Is A ...	Running ...	And is Now...
red	sparc.sun4c	Solaris 2.5	bootable
* blue	sparc.sun4e	Solaris 2.4	not bootable
yellow	sparc.sun4L	Solaris 2.5	bootable
green	i386.i86pc	Solaris 2.5	bootable
purple	sparc.sun4c	Solaris 2.5	bootable
brown	sparc.sun4e	Solaris 2.3	bootable