



Cisco TelePresence Content Server Release 6.1 Disk Cloning Software Guide

August 2014

This document provides information about installing and using Clonezilla disk cloning software. Clonezilla is an open source hard drive cloning software that has been used with the Cisco TelePresence Content Server Release 6.1.

If you choose to use the Clonezilla software, you can create a cloned image of the Content Server hard disk and save the image to an external shared location or to a local disk (USB flash drive or hard drive). Later, you can restore the cloned image from the external shared location or local disk to the Content Server.

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About Using Clonezilla Software

In no event does Cisco warrant that the Clonezilla software is error free or that you will be able to operate the software without issues. Cisco is not responsible for the Clonezilla software. If you choose to install and use the Clonezilla software, you do so at your own risk.

Cisco has used this version of Clonezilla software with Content Server Release 6.1:

clonezilla-live-2.2.3-10-i686-pae.iso

Clonezilla is licensed under the GNU General Public License (GPL) Version 2. However, to run Clonezilla additional free and open source software, for example the Linux kernel and a minimum GNU/Linux OS, are required. You can learn more about the required software at <http://clonezilla.org/>. You can learn more about Diskless Remote Boot in Linux (DRBL) at <http://drbl.org/faq/>.



Cloning the Content Server Hard Drive

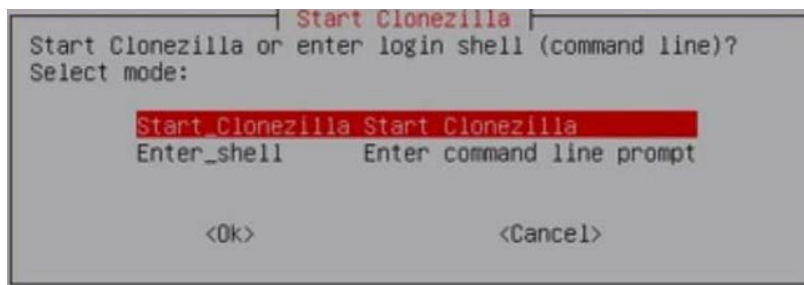
Before You Begin

1. Obtain the Clonezilla software from this website:
<http://clonezilla.org/downloads/download.php?branch=stable>
2. Follow the instructions here to make a bootable Clonezilla USB flash drive or USB hard drive:
<http://clonezilla.org/liveusb.php>

Procedure

Follow these steps:

- Step 1** Insert the USB drive that contains the Clonezilla ISO image in the Content Server USB port. Restart the Content Server.
- Step 2** Press **F6** to enter the boot menu. From the Boot Options window, select **EFI:USB**.
- Step 3** When the Clonezilla Welcome window appears, press **Enter** to continue.
- Step 4** In the Choose language window, choose a **language** and press **Ok**.
- Step 5** In the Configuring console-data window, choose **Don't touch keymap** and press **Ok**.
- Step 6** In the Start Clonezilla window, choose **Start_Clonezilla** and press **Ok**.



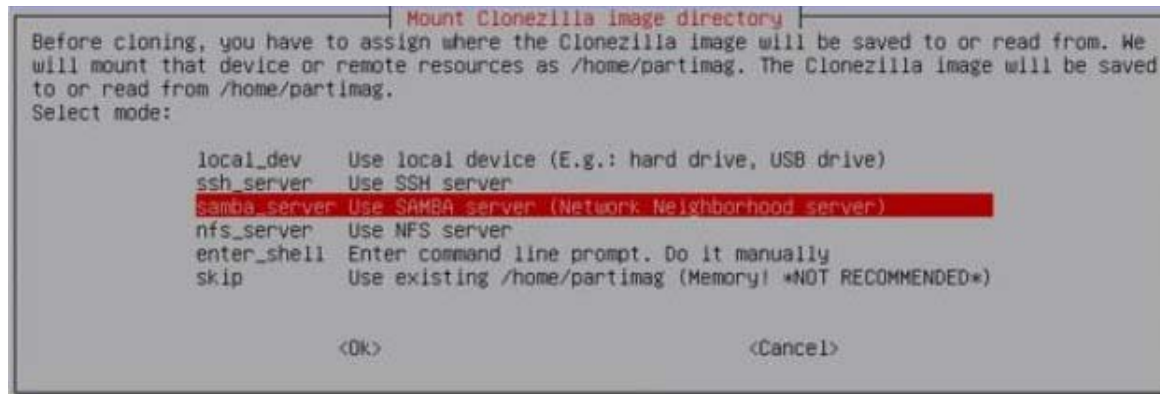
- Step 7** In the Clonezilla free software window, choose **device-image** and press **Ok**.



Step 8 In the Mount Clonezilla image directory window, select one of these options:

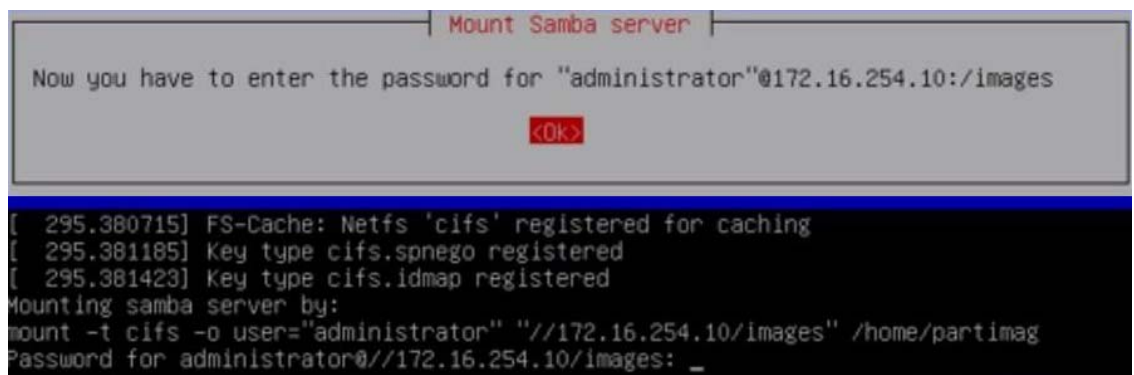
- Choose **Samba_server** to store the Content Server cloned image on an external shared server. If you choose the Samba_server option, continue with [Step 9](#).
- Choose **local_dev** to store the Content Server cloned image on a local USB device. If you choose the local_dev option, insert the USB device in the Content Server port. Complete the on-screen instructions, and then resume with [Step 10](#).

Press **Ok** to continue.



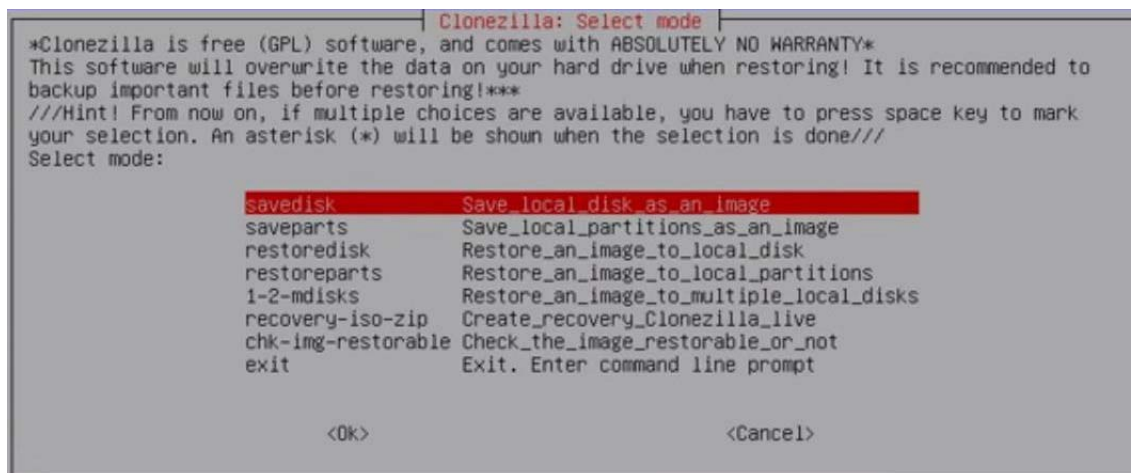
Step 9 In the Network Config window, choose **static** and press **Ok**. In the subsequent windows, enter this information for the external shared server:

- IP Address, Subnet Mask and Default Gateway
- Domain (if applicable)
- Username
- Directory path where you will store the cloned image
- Password

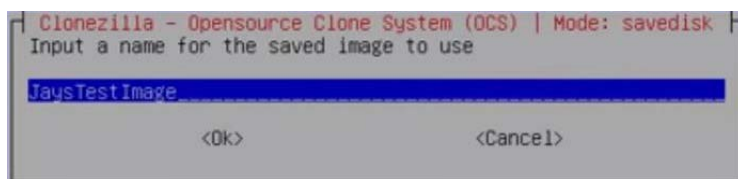


Step 10 In the Clonezilla mode to run window, choose **Expert** and press **Ok**.

Step 11 In the Clonezilla: Select mode window, choose **savedisk** and press **Ok**.

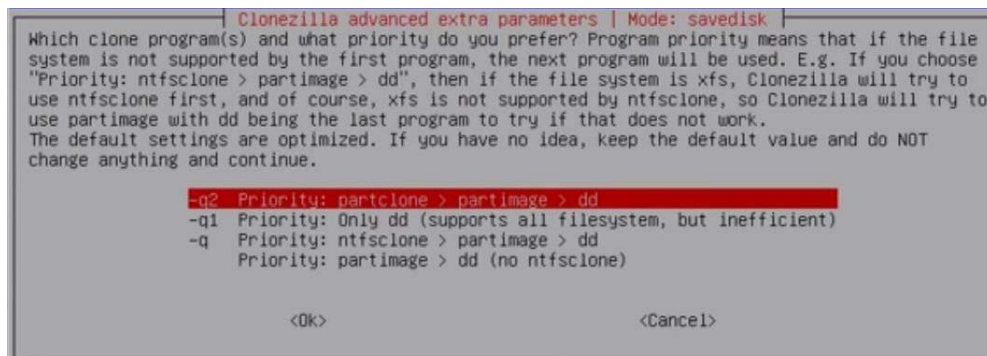


Step 12 Enter a *filename* for the saved image and press **Ok**.

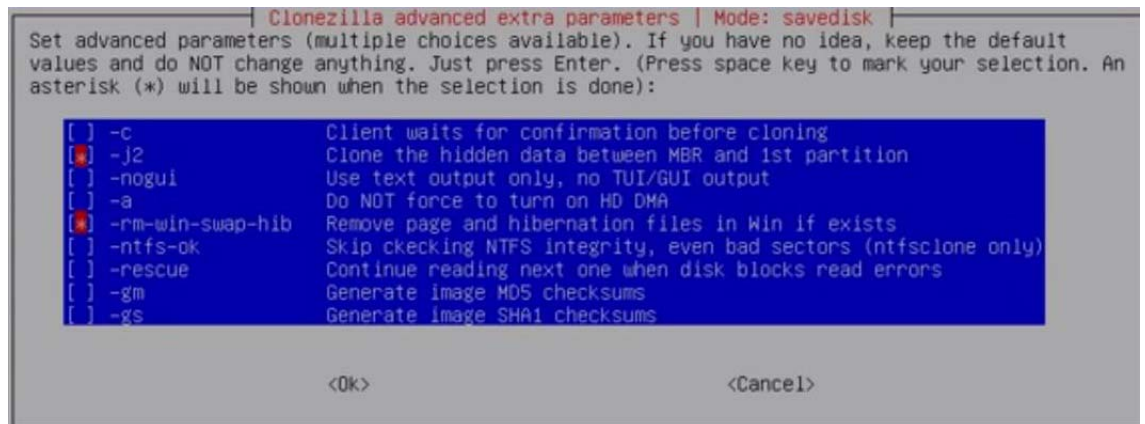


Step 13 In the Choose local disk window, use the space bar to make your selection and press **Ok**.

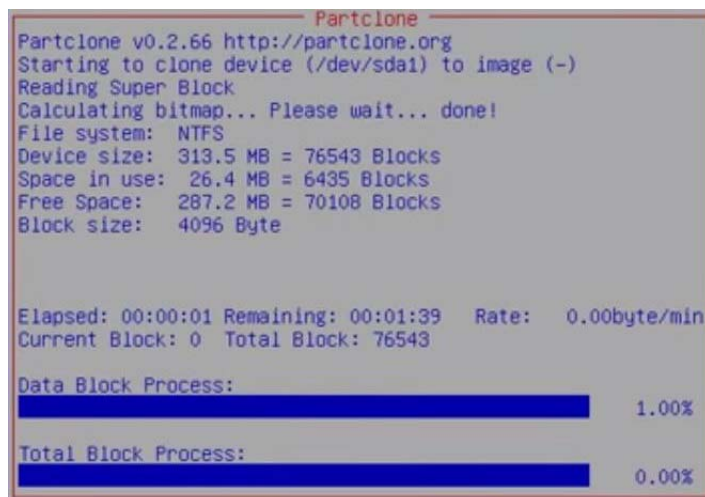
Step 14 In the Advanced extra parameters window, accept the default option **-q2 Priority: partclone > partimage > dd** and press **Ok**.



- Step 15** In the next Advanced extra parameters window, choose **j2** (second option) and **rm-win-swap-hib** (fifth option) and press **Ok**.



- Step 16** In the following Advanced extra parameters windows, enter these values:
- Accept the default option **-z1gzip compression (fast with a smaller image)**, and press **Ok**.
 - Enter the **file image size** that is used to split the partition image file into multiple volumes files. The number should be larger than 10 MB. If you do not want to split the image file, enter a number that is greater than your source clone image size. Press **Ok**.
 - Accept the default option **skip checking/comparing source file system**, and press **Ok**.
 - Choose **Yes, check the saved image** (first option), and press **Ok**.
 - Accept the default option **-p true Do nothing when the clone finishes** (first option), and press **Ok**.
- Step 17** The cloning process begins. The estimated time to complete is about 30 minutes for 12 GB of data.



- Step 18** When the clone process is complete, the Cloned successfully window appears. Press **Enter** and choose **reboot** to restart the Content Server.

```

aving package info...
nd of saveparts job for image /home/partimag/JaysTestImage.
*****
his image was saved successfully: JaysTestImage
nd of savedisk job for image JaysTestImage.
*****
hecking if udevd rules have to be restored...
his program is not started by Clonezilla server, so skip notifying it the job is done.
inished!
ow syncing - flush filesystem buffers...

nding /usr/sbin/ocs-sr at 2013-07-15 21:30:58 UTC...
*****
f you want to use Clonezilla again:
1) Stay in this console (console 1), enter command line prompt
2) Run command "exit" or "logout"
*****
hen everything is done, remember to use 'poweroff', 'reboot' or follow the menu to do a normal powe
off/reboot procedure. Otherwise if the boot media you are using is a writable device (such as USB f
ash drive), and it's mounted, poweroff/reboot in abnormal procedure might make it FAIL to boot next
time!
*****
ress "Enter" to continue...

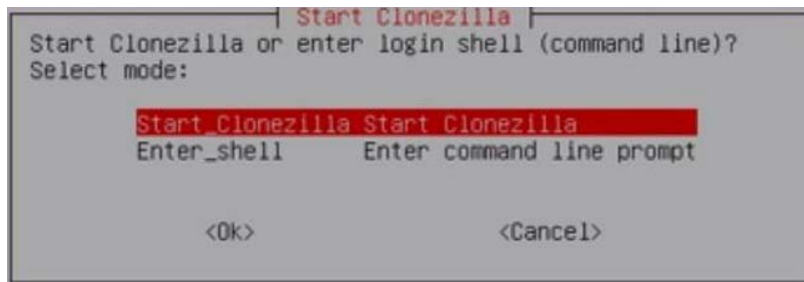
```

- Step 19** Remove the bootable USB drive and any external storage device.

Restoring a Cloned Image on the Content Server

Follow these steps:

- Step 1** Insert the USB drive that contains the Clonezilla ISO image in the Content Server USB port. Restart the Content Server.
- Step 2** Press **F6** to enter the boot menu. From the Boot Options window, select **EFI:USB**.
- Step 3** When the Clonezilla Welcome window appears, press **Enter** to continue.
- Step 4** In the Choose language window, choose a **language** and press **Ok**.
- Step 5** In the Configuring console-data window, choose **Don't touch keymap** and press **Ok**.
- Step 6** In the Start Clonezilla window, choose **Start_Clonezilla** and press **Ok**.



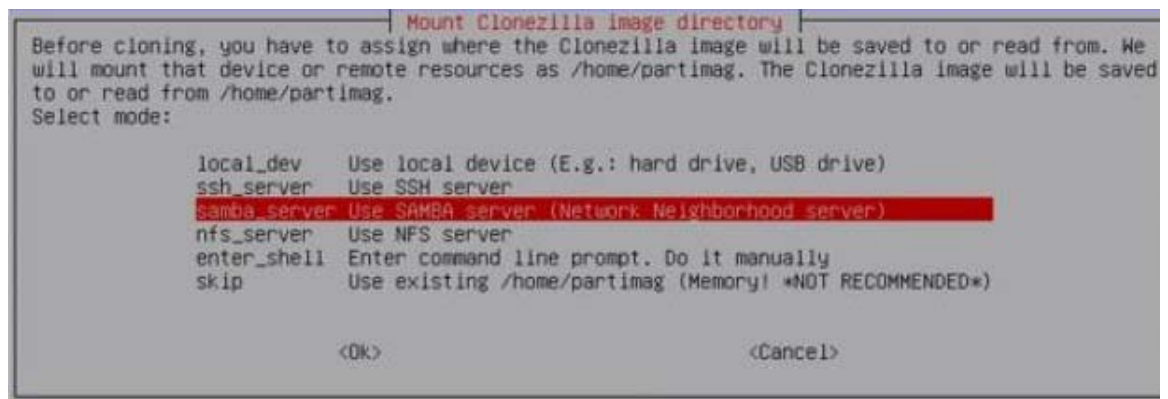
Step 7 In the Clonezilla free software window, choose **device-image** and press **Ok**.



Step 8 In the Mount Clonezilla image directory window, select one of these options:

- Choose **Samba_server** to restore the Content Server cloned image from an external shared server. If you choose the Samba_server option, continue with [Step 9](#).
- Choose **local_dev** to restore the Content Server cloned image from a local USB device. If you choose the local_dev option, insert the USB device in the Content Server port. Complete the on-screen instructions, and then resume with [Step 10](#).

Press **Ok** to continue.

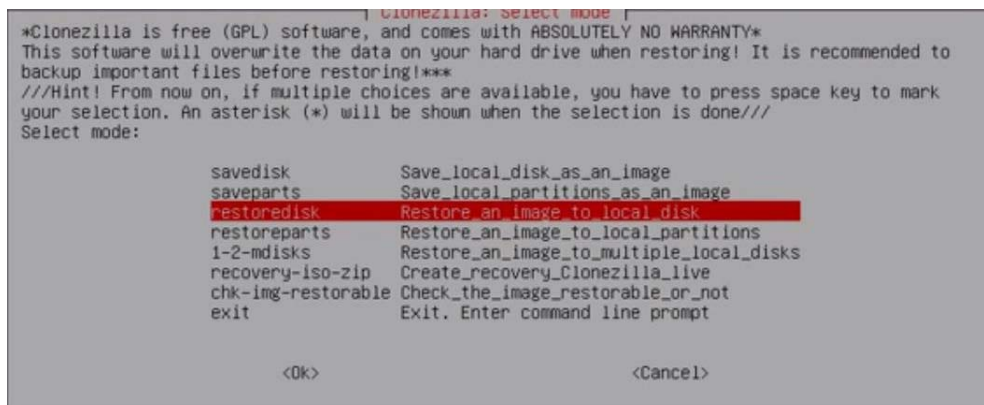


Step 9 In the Network Config window, choose **static** and press **Ok**. In the subsequent windows, enter this information for the external shared server:

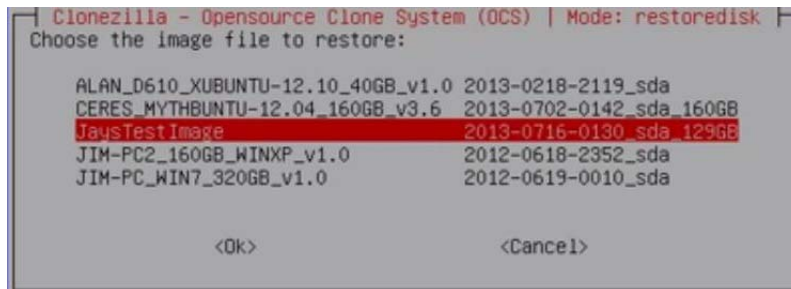
- IP Address, Subnet Mask and Default Gateway
- Domain (if applicable)
- Username
- Directory path of the saved cloned image
- Password

Step 10 In the Clonezilla mode to run window, choose the default option **Beginner** and press **Ok**.

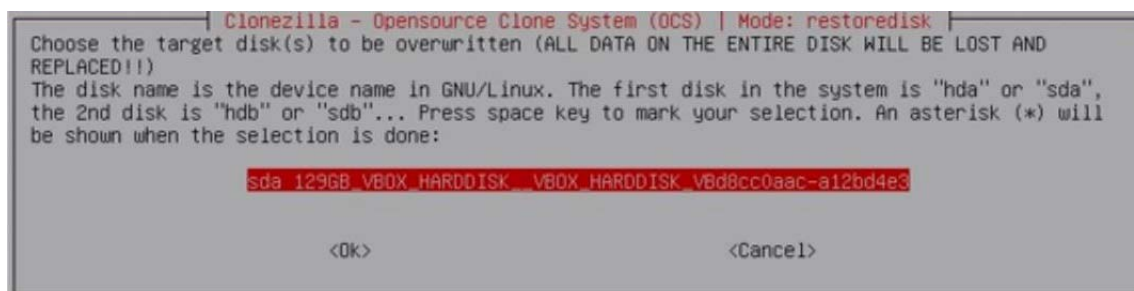
Step 11 In the Clonezilla: Select mode window, choose **restoredisk** and press **Ok**.



Step 12 In the Choose image file window, choose your Content Server cloned image file from the list. Press **Ok**.



Step 13 In the Choose the target disks window, choose the Content Server as the target disk where the cloned image will be restored. Press **Ok**.



Step 14 In the Confirm Overwrite dialog, enter **y** to continue.

```

Getting /dev/sda1 info...
Getting /dev/sda2 info...
*****
The following step is to restore an image to the hard disk/partition(s) on this machine: "/home/part
imag/JaysTestImage" -> "sda sda1 sda2"
WARNING!!! WARNING!!! WARNING!!!
WARNING. THE EXISTING DATA IN THIS HARDDISK/PARTITION(S) WILL BE OVERWRITTEN! ALL EXISTING DATA WILL
BE LOST:
*****
Machine: VirtualBox
sda (129GB_VBOX_HARDDISK__VBOX_HARDDISK_VBd8cc0aac-a12bd4e3)
sda1 (299M_ntfs_System_Reser(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBd8cc0aac-a12bd4e3)
sda2 (119.7G_ntfs(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBd8cc0aac-a12bd4e3)
*****
Are you sure you want to continue? ? (y/n) y
OK, let's do it!!
This program is not started by clonezilla server.
The following step is to restore an image to the hard disk/partition(s) on this machine: "/home/part
imag/JaysTestImage" -> "sda (sda1 sda2)"
WARNING!!! WARNING!!! WARNING!!!
WARNING! THE EXISTING DATA IN THIS HARDDISK/PARTITION(S) WILL BE OVERWRITTEN! ALL EXISTING DATA WILL
BE LOST:
*****
Machine: VirtualBox
sda (129GB_VBOX_HARDDISK__VBOX_HARDDISK_VBd8cc0aac-a12bd4e3)
sda1 (299M_ntfs_System_Reser(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBd8cc0aac-a12bd4e3)
sda2 (119.7G_ntfs(In_VBOX_HARDDISK_)_VBOX_HARDDISK_VBd8cc0aac-a12bd4e3)
*****
Let me ask you again. Are you sure you want to continue? ?
(y/n)

```

Step 15 The restore process begins. The estimated time to complete is about 20 minutes for 12 GB of data.

[illegible]

- Step 16** When the restore process is complete, the Restored successfully window appears. Press **Enter** and choose **reboot** to restart the Content Server.

```
*****
End of restoreparts job for image JaysTestImage.
End of restoredisk job for image JaysTestImage.
*****
Checking if udevd rules have to be restored...
This program is not started by Clonezilla server, so skip.
Finished!
Now syncing - flush filesystem buffers...

Ending /usr/sbin/ocs-sr at 2013-07-15 22:04:31 UTC...
*****
If you want to use Clonezilla again:
(1) Stay in this console (console 1), enter command line
(2) Run command "exit" or "logout"
*****
When everything is done, remember to use 'poweroff', 'reboot' or 'shutdown'
to power off/reboot procedure. Otherwise if the boot media you use is a
flash drive), and it's mounted, poweroff/reboot in abnormal
time!
*****
Press "Enter" to continue...
```

- Step 17** Remove any external storage device.

Related Documentation

- Cisco TelePresence Content Server Documentation
http://www.cisco.com/en/US/products/ps11347/tsd_products_support_series_home.html

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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