



Download and install the ONTAP software image

ONTAP 9

aherbin
May 07, 2021

This PDF was generated from https://docs.netapp.com/us-en/ontap/upgrade/task_download_and_install_ontap_software_image.html on May 13, 2021. Always check docs.netapp.com for the latest.

Table of Contents

- Download and install the ONTAP software image 1
 - Download the software image 1
 - Install the software image 1

Download and install the ONTAP software image

You must first download the ONTAP software from the NetApp Support site; then you can install it.

Download the software image

For ONTAP 9.4 and later, you can copy the ONTAP software image from the NetApp Support Site to a local folder. For upgrades from ONTAP 9.3 or earlier, you must copy the ONTAP software image to an HTTP server or FTP server on your network.

You should note the following important information:

- Software images are specific to platform models.

You must obtain the correct image for your cluster. Software images, firmware version information, and the latest firmware for your platform model are available on the NetApp Support Site.

- Software images include the latest version of system firmware that was available when a given version of ONTAP was released.
- If you are upgrading a system with NetApp Volume Encryption to ONTAP 9.5 or later, you must download the ONTAP software image for non-restricted countries, which includes NetApp Volume Encryption.

If you use the ONTAP software image for restricted countries to upgrade a system with NetApp Volume Encryption, the system panics and you lose access to your volumes.

- If you are upgrading from ONTAP 9.5 to 9.9.1, you must copy the software image for ONTAP 9.7 and 9.9.1.
- If you are upgrading from ONTAP 9.3 to 9.7, you must copy the software image for ONTAP 9.5 and 9.7.

1. Locate the target ONTAP software in the [Software Downloads](#) area of the NetApp Support Site.

2. Copy the software image.

- For ONTAP 9.3 or earlier, copy the software image (for example, 93_q_image.tgz) from the NetApp Support Site to the directory on the HTTP server or FTP server from which the image will be served.
- For ONTAP 9.4 or later, copy the software image (for example, 97_q_image.tgz) from the NetApp Support Site to the directory on the HTTP server or FTP server from which the image will be served or to a local folder.

Install the software image

You must install the target software image on the cluster's nodes.

- If you are upgrading a system with NetApp Volume Encryption to ONTAP 9.5 or later, you must have downloaded the ONTAP software image for non-restricted countries, which includes NetApp Volume Encryption.

If you use the ONTAP software image for restricted countries to upgrade a system with NetApp Volume Encryption, the system panics and you lose access to your volumes.

- If you are upgrading from ONTAP 9.5 directly to 9.9.1, you must download the software image for ONTAP 9.7 and 9.9.1. If you are upgrading from ONTAP 9.3 directly to 9.7, you must download the software image

for ONTAP 9.5 and 9.7.

The automated upgrade process uses both images in the background to complete the upgrade.

1. Set the privilege level to advanced, entering **y** when prompted to continue: `set -privilege advanced`

The advanced prompt (***>**) appears.

For automatic nondisruptive upgrade (ANDU)

1. Check the image repository and delete any previous images.

```
cluster image package show-repository
```

```
cluster image package show-repository\  
<<smoke6-vsim-ucs6b4c#c-login_27|There are no packages in the  
repository.\r\n
```

2. Download the image.

```
cluster image package get -url url_to_image_on_nss
```

Example

```
cluster image package get -url http://10.60.132.98/x/eng/rlse/DOT/9.7P13X2/  
promo/9.7P13X2/x86_64.optimize/image.tgz
```

3. Verify the package is downloaded.

```
cluster image package show-repository
```

Example

```
cluster image package show-repository -fields download-ver\  
<<smoke6-vsim-ucs6b4c#c-login_27| download-verX;X\r\n  
<<smoke6-vsim-ucs6b4c#c-login_27| Downloaded VersionX;X\r\n  
<<smoke6-vsim-ucs6b4c#c-login_27| Stormking__9.10.0X;X\r\n
```

For manual upgrades

1. Download the image.
 - a. If you are upgrading a non-MetroCluster configuration or a two-node MetroCluster configuration use the following command to download the image:

```
system node image update -node * -package location -replace-package true  
-setdefault true -background true
```



This command downloads and installs the software image on all of the nodes simultaneously. To download and install the image on each node one at a time, do not specify the `-background` parameter.

- b. If you are upgrading a four or eight-node MetroCluster configuration, you must issue the following command on both clusters:

```
system node image update -node * -package location -replace-package true  
true -background true -setdefault false
```

This command uses an extended query to change the target software image, which is installed as the alternate image on each node.

2. Enter `y` to continue when prompted.
3. Verify that the software image is downloaded and installed on each node.

```
system node image show-update-progress -node *
```

This command displays the current status of the software image download and installation. You should continue to run this command until all nodes report a **Run Status** of **Exited**, and an **Exit Status** of **Success**.

The `system node image update` command can fail and display error or warning messages. After resolving any errors or warnings, you can run the command again.

This example shows a two-node cluster in which the software image is downloaded and installed successfully on both nodes:

```
cluster1::*> system node image show-update-progress -node *  
There is no update/install in progress  
Status of most recent operation:  
    Run Status:      Exited  
    Exit Status:     Success  
    Phase:           Run Script  
    Exit Message:    After a clean shutdown, image2 will be set as  
the default boot image on node0.  
There is no update/install in progress  
Status of most recent operation:  
    Run Status:      Exited  
    Exit Status:     Success  
    Phase:           Run Script  
    Exit Message:    After a clean shutdown, image2 will be set as  
the default boot image on node1.  
2 entries were acted on.
```

Copyright Information

Copyright © 2021 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system- without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.