



Configuring backup on Linux

Active IQ Unified Manager

NetApp
May 24, 2022

Table of Contents

- Configuring backup on Linux 1
- Configuring Snapshot backup location. 1
- Specifying the destination location for Snapshot backups. 2

Configuring backup on Linux

If your Active IQ Unified Manager is installed on a Linux machine, then you can decide to configure your backup and restore using NetApp Snapshots.

Snapshot backups take very little time, usually just a few minutes, and the Unified Manager database is locked for a very short timeframe, so there is very little disruption to your installation. The image consumes minimal storage space and incurs negligible performance overhead because it records only changes to files since the last Snapshot copy was made. Because the Snapshot is created on an ONTAP cluster, you can take advantage of other NetApp features such as SnapMirror to create secondary protection, if needed.

Before beginning a backup operation, Unified Manager performs an integrity check to verify that the destination system is available.



- You can restore a Snapshot backup only on the same version of Active IQ Unified Manager.

For example, if you created a backup on Unified Manager 9.9, the backup can be restored only on Unified Manager 9.9 systems.

- If there is any change in the Snapshot configuration, it might cause the snapshot to be invalid.

Configuring Snapshot backup location

You can configure the volume where Snapshot backups will be stored on one of your ONTAP clusters using ONTAP System Manager or using the ONTAP CLI.

What you'll need

The cluster, storage VM, and volume must meet the following requirements:

- Cluster requirements:
 - ONTAP 9.3 or greater must be installed
 - It should be geographically close to the Unified Manager server
 - It can be monitored by Unified Manager, but it is not required
- Storage VM requirements:
 - The name switch and name mapping must be set to use “files”
 - Local users created to correspond with client-side users
 - Make sure All Read/Write access is selected
 - Make sure that Superuser Access is set to “any” in the export policy
 - NFS for NetApp Snapshot for Linux
 - NFSv4 must be enabled on the NFS server and NFSv4 ID domain specified on the client and storage VM
 - The volume should be at least double the size of the Unified Manager/opt/netapp/data directory

Use the command `du -sh /opt/netapp/data/` to check the current size.

- Volume requirements:
 - The volume should be at least double the size of the Unified Manager /opt/netapp/data directory
 - The security style must be set to UNIX
 - The local snapshot policy must be disabled
 - Volume autosize should be enabled
 - The performance service level should be set to a policy with high IOPS and low latency, such as “Extreme”

For detailed steps to create the NFS volume, see [How to configure NFSv4 in ONTAP 9](#) and the [ONTAP 9 NFS Configuration Express Guide](#).

Specifying the destination location for Snapshot backups

You configure the destination location for Active IQ Unified Manager Snapshot backups on a volume you have already configured in one of your ONTAP clusters. You define the location from the Active IQ Unified Manager maintenance console.

- You must have the root user credentials for the Linux host on which Active IQ Unified Manager is installed.
- You must have a user ID and password authorized to log in to the maintenance console of the Unified Manager server.
- You must have the Cluster Management IP address, the name of the storage VM, the name of the volume, and the storage system user name and password.
- You must have mounted the volume to the Active IQ Unified Manager host, and you must have the mount path.

Steps

1. Use Secure Shell to connect to the IP address or FQDN of the Active IQ Unified Manager system.
2. Log in to the system with the maintenance user (umadmin) name and password.
3. Enter the command `maintenance_console` and press Enter.
4. In the maintenance console **Main Menu**, enter the number for the **Backup Restore** option.
5. Enter the number for **Configure NetApp Snapshot Backup**.
6. Enter the number to configure NFS.
7. Review the information that you will need to provide and then enter the number for **Enter Backup Configuration Details**.
8. To identify the volume where the Snapshot will be written, enter the IP address of the Cluster Management interface, the name of the storage VM, the name of the volume, LUN name, the storage system user name and password, and the mount path.
9. Verify this information and enter `y`.

The system performs the following tasks:

- Establishes the connection to the cluster
- Stops all the services
- Creates a new directory in the volume and copies the Active IQ Unified Manager database

configuration files

- Deletes the files from Active IQ Unified Manager and creates a symlink to the new database directory
- Restarts all the services

10. Exit the maintenance console and launch the Active IQ Unified Manager interface to create the Snapshot backup schedule if you have not already done this.

Copyright Information

Copyright © 2022 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.