Gathering required materials for grid node recovery

StorageGRID 11.5

NetApp
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Before performing maintenance procedures, you must ensure you have the necessary materials to recover a failed grid node.

Item	Notes
StorageGRID installation archive	If you need to recover a grid node, you need the StorageGRID installation archive for your platform. **Note:** You do not need to download files if you are recovering failed storage volumes on a Storage Node.
Recovery Package `.zip` file	Obtain a copy of the most recent Recovery Package `.zip` file: `sgws-recovery-package-id-revision.zip` The contents of the `.zip` file are updated each time the system is modified. You are directed to store the most recent version of the Recovery Package in a secure location after making such changes. Use the most recent copy to recover from grid failures. If the primary Admin Node is operating normally, you can download the Recovery Package from the Grid Manager. Select **Maintenance** > **System** > **Recovery Package**. If you cannot access the Grid Manager, you can find encrypted copies of the Recovery Package on some Storage Nodes that contain the ADC service. On each Storage Node, examine this location for the Recovery Package: `/var/local/install/sgws-recovery-package-grid-id-revision.zip.gpg` Use the Recovery Package with the highest revision number.
`Passwords.txt` file	Contains the passwords required to access grid nodes on the command line. Included in the Recovery Package.
Provisioning passphrase	The passphrase is created and documented when the StorageGRID system is first installed. The provisioning passphrase is not in the `Passwords.txt` file.
Current documentation for your platform	For the current supported versions of your platform, see the Interoperability Matrix Tool. NetApp Interoperability Matrix Tool Go to the platform vendor's website for documentation.

Related information

Downloading and extracting the StorageGRID installation files

Web browser requirements

Downloading and extracting the StorageGRID installation files

Before you can recover StorageGRID grid nodes, you must download the software and extract the files.

You must use the version of StorageGRID that is currently running on the grid.

Steps

1. Determine which version of the software is currently installed. From the Grid Manager, go to **Help** > **About**.
2. Go to the NetApp Downloads page for StorageGRID.

   NetApp Downloads: StorageGRID

3. Select the version of StorageGRID that is currently running on the grid.

   StorageGRID software versions have this format: 11.x.y.

4. Sign in with the username and password for your NetApp account.
5. Read the End User License Agreement, select the check box, and then select **Accept & Continue**.
6. In the **Install StorageGRID** column of the download page, select the `.tgz` or `.zip` file for your platform.

   The version shown in the installation archive file must match the version of the software that is currently installed.

   Use the `.zip` file if you are running Windows.

Platform	Installation archive

VMware	`StorageGRID-Webscale-`*`version`*`-VMware-`*`uniqueID`*`.zip`
	
	`StorageGRID-Webscale-`*`version`*`-VMware-`*`uniqueID`*`.tgz`

Red Hat Enterprise Linux or CentOS	`StorageGRID-Webscale-`*`version`*`-RPM-`*`uniqueID`*`.zip`
	
	`StorageGRID-Webscale-`*`version`*`-RPM-`*`uniqueID`*`.tgz`

Ubuntu or Debian
 	
or Appliances
	`StorageGRID-Webscale-`*`version`*`-DEB-`*`uniqueID`*`.zip`
	
	`StorageGRID-Webscale-`*`version`*`-DEB-`*`uniqueID`*`.tgz`

OpenStack or other hypervisor	NetApp-provided virtual machine disk files and scripts for OpenStack are no longer supported for recovery operations. If you need to recover a node running in an OpenStack deployment, download the files for your Linux operating system. Then, follow the procedure for replacing a Linux node.

7. Download and extract the archive file.

8. Follow the appropriate step for your platform to choose the files you need, based on your platform and which grid nodes you need to recover.

   The paths listed in the step for each platform are relative to the top-level directory installed by the archive file.

9. If you are recovering a VMware system, select the appropriate files.

Path and file name	Description
`./vsphere/README`	A text file that describes all of the files contained in the StorageGRID download file.
`./vsphere/NLF000000.txt`	A free license that does not provide any support entitlement for the product.
`./vsphere/NetApp-SG-version-SHA.vmdk`	The virtual machine disk file that is used as a template for creating grid node virtual machines.

`./vsphere/vsphere-primary-admin.ovf`
 	
`./vsphere/vsphere-primary-admin.mf`
	The Open Virtualization Format template file (`.ovf`) and manifest file (`.mf`) for deploying the primary Admin Node.

`./vsphere/vsphere-non-primary-admin.ovf`
 	
`./vsphere/vsphere-non-primary-admin.mf`
	The template file (`.ovf`) and manifest file (`.mf`) for deploying non-primary Admin Nodes.

`/vsphere/vsphere-archive.ovf`
 	
`./vsphere/vsphere-archive.mf`
	The template file (`.ovf`) and manifest file (`.mf`) for deploying Archive Nodes.

`./vsphere/vsphere-gateway.ovf`
 	
`./vsphere/vsphere-gateway.mf`
	The template file (`.ovf`) and manifest file (`.mf`) for deploying Gateway Nodes.

`./vsphere/vsphere-storage.ovf`
 	
`./vsphere/vsphere-storage.mf`
	The template file (`.ovf`) and manifest file (`.mf`) for deploying virtual machine-based Storage Nodes.

Deployment scripting tool	**Description**
`./vsphere/deploy-vsphere-ovftool.sh`	A Bash shell script used to automate the deployment of virtual grid nodes.
`./vsphere/deploy-vsphere-ovftool-sample.ini`	A sample configuration file for use with the `deploy-vsphere-ovftool.sh` script.
`./vsphere/configure-storagegrid.py`	A Python script used to automate the configuration of a StorageGRID system.
`./vsphere/configure-sga.py`	A Python script used to automate the configuration of StorageGRID appliances.

Path and file name	Description
`./vsphere/storagegrid-ssoauth.py`	An example Python script that you can use to sign in to the Grid Management API when single sign-on is enabled.
`./vsphere/configure-storagegrid.sample.json`	A sample configuration file for use with the `configure-storagegrid.py` script.
`./vsphere/configure-storagegrid.blank.json`	A blank configuration file for use with the `configure-storagegrid.py` script.

10. If you are recovering a Red Hat Enterprise Linux or CentOS system, select the appropriate files.

Path and file name	Description
`./rpms/README`	A text file that describes all of the files contained in the StorageGRID download file.
`./rpms/NLF000000.txt`	A free license that does not provide any support entitlement for the product.
`./rpms/StorageGRID-Webscale-Images-`*`version`*`-SHA.rpm`	RPM package for installing the StorageGRID node images on your RHEL or CentOS hosts.
`./rpms/StorageGRID-Webscale-Service-`*`version`*`-SHA.rpm`	RPM package for installing the StorageGRID host service on your RHEL or CentOS hosts.
Deployment scripting tool	**Description**
`./rpms/configure-storagegrid.py`	A Python script used to automate the configuration of a StorageGRID system.
`./rpms/configure-sga.py`	A Python script used to automate the configuration of StorageGRID appliances.
`./rpms/configure-storagegrid.sample.json`	A sample configuration file for use with the `configure-storagegrid.py` script.
`./rpms/storagegrid-ssoauth.py`	An example Python script that you can use to sign in to the Grid Management API when single sign-on is enabled.
`./rpms/configure-storagegrid.blank.json`	A blank configuration file for use with the `configure-storagegrid.py` script.

Path and file name	Description
`./rpms/extras/ansible`	Example Ansible role and playbook for configuring RHEL or CentOS hosts for StorageGRID container deployment. You can customize the role or playbook as necessary.

11. If you are recovering an Ubuntu or Debian system, select the appropriate files.

Path and file name	Description
`./debs/README`	A text file that describes all of the files contained in the StorageGRID download file.
`./debs/NLF000000.txt`	A non-production NetApp License File that you can use for testing and proof of concept deployments.
`./debs/storagegrid-webscale-images-`*`version`*`-SHA.deb`	DEB package for installing the StorageGRID node images on Ubuntu or Debian hosts.
`./debs/storagegrid-webscale-images-`*`version`*`-SHA.deb.md5`	MD5 checksum for the file `/debs/storagegrid-webscale-images-version-SHA.deb`
`./debs/storagegrid-webscale-service-`*`version`*`-SHA.deb`	DEB package for installing the StorageGRID host service on Ubuntu or Debian hosts.
Deployment scripting tool	**Description**
`./debs/configure-storagegrid.py`	A Python script used to automate the configuration of a StorageGRID system.
`./debs/configure-sga.py`	A Python script used to automate the configuration of StorageGRID appliances.
`./debs/storagegrid-ssoauth.py`	An example Python script that you can use to sign in to the Grid Management API when single sign-on is enabled.
`./debs/configure-storagegrid.sample.json`	A sample configuration file for use with the `configure-storagegrid.py` script.
`./debs/configure-storagegrid.blank.json`	A blank configuration file for use with the `configure-storagegrid.py` script.
`./debs/extras/ansible`	Example Ansible role and playbook for configuring Ubuntu or Debian hosts for StorageGRID container deployment. You can customize the role or playbook as necessary.

12. If you are recovering a StorageGRID appliance-based system, select the appropriate files.

Path and file name	Description
`./debs/storagegrid-webscale-images-version-SHA.deb`	DEB package for installing the StorageGRID node images on your appliances.
`./debs/storagegrid-webscale-images-version-SHA.deb.md5`	Checksum of the DEB installation package used by the StorageGRID Appliance Installer to validate that the package is intact after upload.

Note: For appliance installation, these files are only required if you need to avoid network traffic. The appliance can download the required files from the primary Admin Node.

Related information

Install VMware

Install Red Hat Enterprise Linux or CentOS

Install Ubuntu or Debian

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