



# **Recovering from Gateway Node failures**

## StorageGRID

NetApp  
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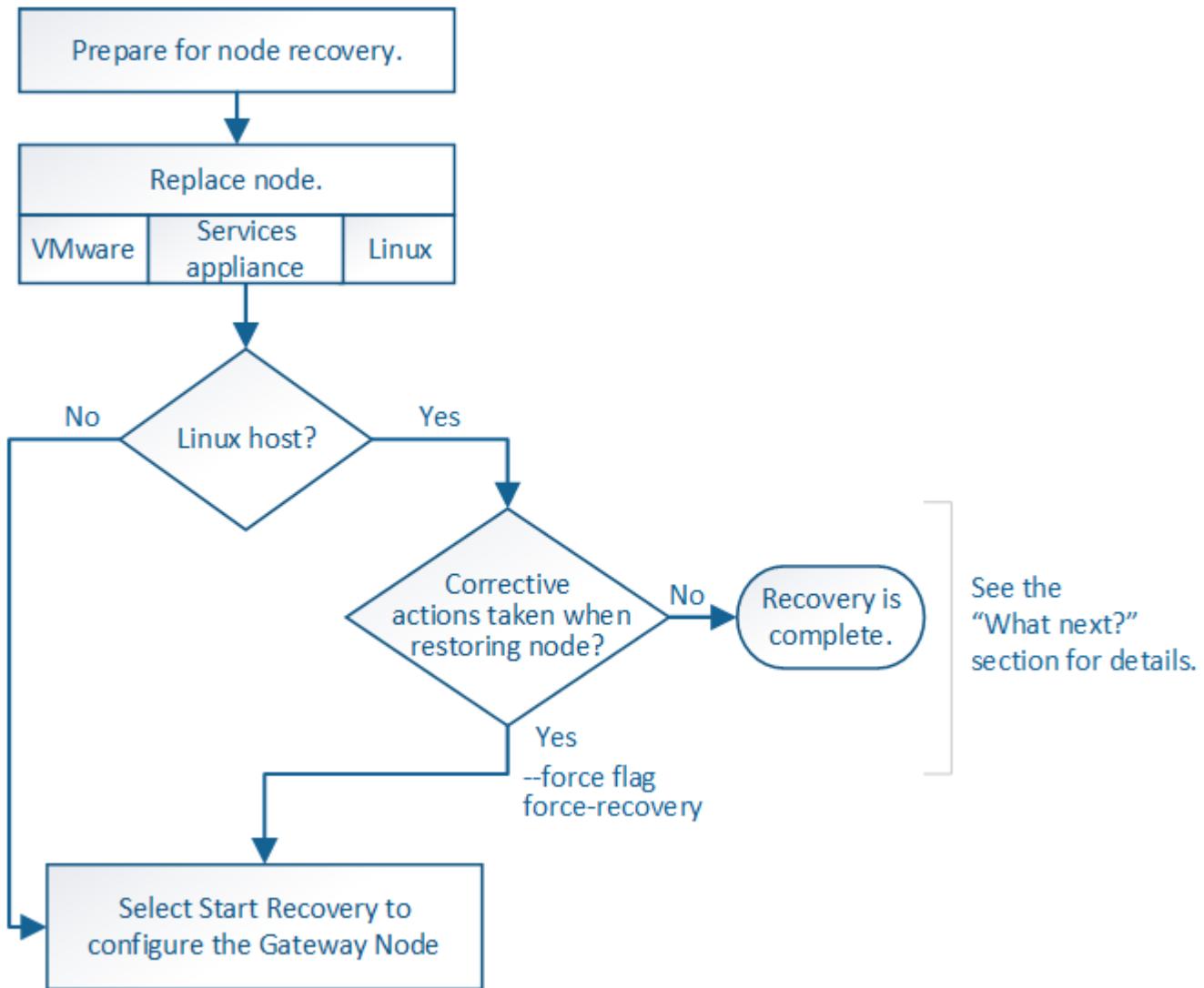
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# Recovering from Gateway Node failures

You must complete a sequence of tasks in exact order to recover from a Gateway Node failure.



## Related information

[SG100 & SG1000 services appliances](#)

## Steps

- [Replacing a Gateway Node](#)
- [Selecting Start Recovery to configure a Gateway Node](#)

## Replacing a Gateway Node

You can replace a failed Gateway Node with a Gateway Node running on the same physical or virtual hardware, or you can replace a Gateway Node running on VMware or a Linux host with a Gateway Node hosted on a services appliance.

The node replacement procedure you must follow depends on which platform will be used by the replacement

node. After you complete the node replacement procedure (which is suitable for all node types), that procedure will direct you to the next step for Gateway Node recovery.

Replacement platform	Procedure
VMware	<a href="#">Replacing a VMware node</a>
Linux	<a href="#">Replacing a Linux node</a>
SG100 and SG1000 services appliances	<a href="#">Replacing a services appliance</a>
OpenStack	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.

## Selecting Start Recovery to configure a Gateway Node

After replacing a Gateway Node, you must select Start Recovery in the Grid Manager to configure the new node as a replacement for the failed node.

### What you'll need

- You must be signed in to the Grid Manager using a supported browser.
- You must have the Maintenance or Root Access permission.
- You must have the provisioning passphrase.
- You must have deployed and configured the replacement node.

### Steps

1. From the Grid Manager, select **Maintenance > Maintenance Tasks > Recovery**.
2. Select the grid node you want to recover in the Pending Nodes list.

Nodes appear in the list after they fail, but you cannot select a node until it has been reinstalled and is ready for recovery.

3. Enter the **Provisioning Passphrase**.
4. Click **Start Recovery**.

## Recovery

Select the failed grid node to recover, enter your provisioning passphrase, and then click Start Recovery to begin the recovery procedure.

### Pending Nodes



	Name	IPv4 Address	State	Recoverable	
<input checked="" type="radio"/>	104-217-S1	10.96.104.217	Unknown	<input checked="" type="checkbox"/>	

### Passphrase

Provisioning Passphrase

.....

**Start Recovery**

## 5. Monitor the progress of the recovery in the Recovering Grid Node table.



While the recovery procedure is running, you can click **Reset** to start a new recovery. An Info dialog box appears, indicating that the node will be left in an indeterminate state if you reset the procedure.

### Info

#### Reset Recovery

Resetting the recovery procedure leaves the deployed grid node in an indeterminate state. To retry a recovery after resetting the procedure, you must restore the node to a pre-installed state:

- For VMware nodes, delete the deployed VM and then redeploy it.
- For StorageGRID appliance nodes, run "sgareinstall" on the node.
- For Linux nodes, run "storagegrid node force-recovery *node-name*" on the Linux host.

Do you want to reset recovery?

**Cancel**

**OK**

If you want to retry the recovery after resetting the procedure, you must restore the node to a pre-installed state, as follows:

- **VMware:** Delete the deployed virtual grid node. Then, when you are ready to restart the recovery, redeploy the node.
- **Linux:** Restart the node by running this command on the Linux host: `storagegrid node force-recovery node-name`
- **Appliance:** If you want to retry the recovery after resetting the procedure, you must restore the appliance node to a pre-installed state by running `sgareinstall` on the node.

**Related information**

[Preparing an appliance for reinstallation \(platform replacement only\)](#)

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