



Port remap procedures

StorageGRID software

NetApp

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Port remap procedures

Remove port remaps

If you want to configure an endpoint for the Load Balancer service, and you want to use a port that has already been configured as the Mapped-To Port of a port remap, you must first remove the existing port remap, or the endpoint will not be effective. You must run a script on each Admin Node and Gateway Node that has conflicting remapped ports to remove all of the node's port remaps.

About this task

This procedure removes all port remaps. If you need to keep some of the remaps, contact technical support.

For information about configuring load balancer endpoints, see [Configuring load balancer endpoints](#).



If the port remap provides client access, reconfigure the client to use a different port as an load balancer endpoint to avoid loss of service. Otherwise, removing the port mapping will result in loss of client access and should be scheduled appropriately.



This procedure does not work for a StorageGRID system deployed as a container on bare metal hosts. See the instructions for [removing port remaps on bare metal hosts](#).

Steps

1. Log in to the node.
 - a. Enter the following command: `ssh -p 8022 admin@node_IP`

Port 8022 is the SSH port of the base OS, while port 22 is the SSH port of the container engine running StorageGRID.
 - b. Enter the password listed in the `Passwords.txt` file.
 - c. Enter the following command to switch to root: `su -`
 - d. Enter the password listed in the `Passwords.txt` file.

When you are logged in as root, the prompt changes from `$` to `#`.

2. Run the following script: `remove-port-remap.sh`
3. Reboot the node: `reboot`
4. Log out of the command shell: `exit`
5. Repeat these steps on each Admin Node and Gateway Node that has conflicting remapped ports.

Remove port remaps on bare metal hosts

If you want to configure an endpoint for the Load Balancer service, and you want to use a port that has already been configured as the Mapped-To Port of a port remap, you must first remove the existing port remap, or the endpoint will not be effective.

About this task

If you are running StorageGRID on bare metal hosts, follow this procedure instead of the general procedure for removing port remaps. You must edit the node configuration file for each Admin Node and Gateway Node that has conflicting remapped ports to remove all of the node's port remaps and restart the node.



This procedure removes all port remaps. If you need to keep some of the remaps, contact technical support.

For information about configuring load balancer endpoints, see the instructions for administering StorageGRID.



This procedure can result in temporary loss of service as nodes are restarted.

Steps

1. Log in to the host supporting the node. Log in as root or with an account that has sudo permission.
2. Run the following command to temporarily disable the node: `sudo storagegrid node stop node-name`
3. Using a text editor such as vim or pico, edit the node configuration file for the node.

The node configuration file can be found at `/etc/storagegrid/nodes/node-name.conf`.

4. Locate the section of the node configuration file that contains the port remaps.

See the last two lines in the following example.

```

ADMIN_NETWORK_CONFIG = STATIC
ADMIN_NETWORK_ESL = 10.0.0.0/8, 172.19.0.0/16, 172.21.0.0/16
ADMIN_NETWORK_GATEWAY = 10.224.0.1
ADMIN_NETWORK_IP = 10.224.5.140
ADMIN_NETWORK_MASK = 255.255.248.0
ADMIN_NETWORK_MTU = 1400
ADMIN_NETWORK_TARGET = eth1
ADMIN_NETWORK_TARGET_TYPE = Interface
BLOCK_DEVICE_VAR_LOCAL = /dev/sda2
CLIENT_NETWORK_CONFIG = STATIC
CLIENT_NETWORK_GATEWAY = 47.47.0.1
CLIENT_NETWORK_IP = 47.47.5.140
CLIENT_NETWORK_MASK = 255.255.248.0
CLIENT_NETWORK_MTU = 1400
CLIENT_NETWORK_TARGET = eth2
CLIENT_NETWORK_TARGET_TYPE = Interface
GRID_NETWORK_CONFIG = STATIC
GRID_NETWORK_GATEWAY = 192.168.0.1
GRID_NETWORK_IP = 192.168.5.140
GRID_NETWORK_MASK = 255.255.248.0
GRID_NETWORK_MTU = 1400
GRID_NETWORK_TARGET = eth0
GRID_NETWORK_TARGET_TYPE = Interface
NODE_TYPE = VM_API_Gateway
PORT_REMAP = client/tcp/8082/443
PORT_REMAP_INBOUND = client/tcp/8082/443

```

5. Edit the PORT_REMAP and PORT_REMAP_INBOUND entries to remove port remaps.

```

PORT_REMAP =
PORT_REMAP_INBOUND =

```

6. Run the following command to validate your changes to the node configuration file for the node: `sudo storagegrid node validate node-name`

Address any errors or warnings before proceeding to the next step.

7. Run the following command to restart the node without port remaps: `sudo storagegrid node start node-name`
8. Log in to the node as admin using the password listed in the `Passwords.txt` file.
9. Verify that the services start correctly.
 - a. View a list of the statuses of all services on the server: `sudo storagegrid-status`

The status is updated automatically.

- b. Wait until all services have a status of either Running or Verified.
 - c. Exit the status screen: `Ctrl+C`
10. Repeat these steps on each Admin Node and Gateway Node that has conflicting remapped ports.

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