Configure DNS servers

StorageGRID

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Configure DNS servers

You can add, remove, and update domain name system (DNS) servers, so that you can use fully qualified domain name (FQDN) hostnames rather than IP addresses.

What you'll need

- You must be signed in to the Grid Manager using a supported web browser.
- You must have the Maintenance or Root Access permission.
- You must have the IP addresses of the DNS servers to configure.

Specifying DNS server information allows you to use fully qualified domain name (FQDN) hostnames rather than IP addresses for email or SNMP notifications and AutoSupport. Specifying at least two DNS servers is recommended.

> Provide between two to six IP addresses for DNS servers. In general, select DNS servers that each site can access locally in the event of network islanding. This is to ensure an islanded site continues to have access to the DNS service. After configuring the grid-wide DNS server list, you can further customize the DNS server list for each node.

If the DNS server information is omitted or incorrectly configured, a DNST alarm is triggered on each grid node's SSM service. The alarm clears when DNS is configured correctly and the new server information has reached all grid nodes.

Steps

1. Select **MAINTENANCE** > **Network** > **DNS servers**.
2. In the Servers section, add update, or remove DNS server entries, as necessary.

   The best practice is to specify at least two DNS servers per site. You can specify up to six DNS servers.

3. Click **Save**.

Modify DNS configuration for single grid node

Rather than configure the Domain Name System (DNS) globally for the entire deployment, you can run a script to configure DNS differently for each grid node.

In general, you should use the **MAINTENANCE** > **Network** > **DNS servers** option on the Grid Manager to configure DNS servers. Only use the following script if you need to use different DNS servers for different grid nodes.

1. Log in to the primary Admin Node:
   a. Enter the following command: `ssh admin@primary_Admin_Node_IP`
   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 `#`.

e. Add the SSH private key to the SSH agent. Enter: `ssh-add`

f. Enter the SSH Access Password listed in the `Passwords.txt` file.

2. Log in to the node you want to update with a custom DNS configuration: `ssh` *`node_IP_address`*

3. Run the DNS setup script: `setup_resolv.rb.`

   The script responds with the list of supported commands.

```
Tool to modify external name servers

available commands:
  add search <domain>
               add a specified domain to search list
               e.g.> add search netapp.com
  remove search <domain>
               remove a specified domain from list
               e.g.> remove search netapp.com
  add nameserver <ip>
               add a specified IP address to the name server list
               e.g.> add nameserver 192.0.2.65
  remove nameserver <ip>
               remove a specified IP address from list
               e.g.> remove nameserver 192.0.2.65
  remove nameserver all
               remove all nameservers from list
  save         write configuration to disk and quit
  abort        quit without saving changes
  help         display this help message


Current list of name servers:
    192.0.2.64
Name servers inherited from global DNS configuration:
    192.0.2.126
    192.0.2.127
Current list of search entries:
    netapp.com

Enter command [`add search <domain>|remove search <domain>|add
nameserver <ip>`]
              [`remove nameserver <ip>|remove nameserver
all|save|abort|help`]
```

4. Add the IPv4 address of a server that provides domain name service for your network: `add <nameserver IP_address>`

5. Repeat the `add nameserver` command to add name servers.
6. Follow instructions as prompted for other commands.
7. Save your changes and exit the application: `save`
8. Close the command shell on the server: `exit`
9. For each grid node, repeat the steps from logging into the node through closing the command shell.
10. When you no longer require passwordless access to other servers, remove the private key from the SSH agent. Enter: `ssh-add -D`

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