



# **Configure node-scoped NDMP**

## **ONTAP 9**

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# Configure node-scoped NDMP

## Enable node-scoped NDMP on the cluster

You can back up volumes hosted on a single node by enabling node-scoped NDMP, enabling the NDMP service, and configuring a LIF for data and control connection. This can be done for all nodes of the cluster.



Node-scoped NDMP is deprecated in ONTAP 9.

### About this task

When using NDMP in node-scope mode, authentication must be configured on a per-node basis. For more information, see [the Knowledge Base article "How to configure NDMP authentication in the 'node-scope' mode"](#).

### Steps

1. Enable node-scoped NDMP mode by using the `system services ndmp` command with the `node-scope-mode` parameter.

```
cluster1::> system services ndmp node-scope-mode on
NDMP node-scope-mode is enabled.
```

2. Enable NDMP service on all nodes in the cluster by using the `system services ndmp on` command.

Using the wildcard "\*" enables NDMP service on all nodes at the same time.

You must specify a password for authentication of the NDMP connection by the backup application.

```
cluster1::> system services ndmp on -node *
```

```
Please enter password:
Confirm password:
2 entries were modified.
```

3. Disable the `-clear-text` option for secure communication of the NDMP password by using the `system services ndmp modify` command.

Using the wildcard "\*" disables the `-clear-text` option on all nodes at the same time.

```
cluster1::> system services ndmp modify -node * -clear-text false
2 entries were modified.
```

4. Verify that NDMP service is enabled and the `-clear-text` option is disabled by using the `system services ndmp show` command.

```
cluster1::> system services ndmp show
```

| Node       | Enabled | Clear text | User Id |
|------------|---------|------------|---------|
| cluster1-1 | true    | false      | root    |
| cluster1-2 | true    | false      | root    |

2 entries were displayed.

## Configure a LIF

You must identify a LIF that will be used for establishing a data connection and control connection between the node and the backup application. After identifying the LIF, you must verify that firewall and failover policies are set for the LIF.

### Steps

1. Identify the intercluster LIF hosted on the nodes by using the `network interface show` command with the `-role` parameter.

```
cluster1::> network interface show -role intercluster
```

| Current Is | Logical   | Status     | Network       | Current    |      |
|------------|-----------|------------|---------------|------------|------|
| Vserver    | Interface | Admin/Oper | Address/Mask  | Node       | Port |
| Home       |           |            |               |            |      |
| cluster1   | IC1       | up/up      | 192.0.2.65/24 | cluster1-1 | e0a  |
| true       |           |            |               |            |      |
| cluster1   | IC2       | up/up      | 192.0.2.68/24 | cluster1-2 | e0b  |
| true       |           |            |               |            |      |

2. Ensure that the firewall policy is enabled for NDMP on the intercluster LIFs:
  - a. Verify that the firewall policy is enabled for NDMP by using the `system services firewall policy show` command.

The following command displays the firewall policy for the intercluster LIF:

```
cluster1::> system services firewall policy show -policy intercluster
```

| Vserver  | Policy       | Service | Allowed           |
|----------|--------------|---------|-------------------|
| cluster1 | intercluster | dns     | -                 |
|          |              | http    | -                 |
|          |              | https   | -                 |
|          |              | **ndmp  | 0.0.0.0/0, ::/0** |
|          |              | ndmps   | -                 |
|          |              | ntp     | -                 |
|          |              | rsh     | -                 |
|          |              | ssh     | -                 |
|          |              | telnet  | -                 |

9 entries were displayed.

- b. If the firewall policy is not enabled, enable the firewall policy by using the `system services firewall policy modify` command with the `-service` parameter.

The following command enables firewall policy for the intercluster LIF:

```
cluster1::> system services firewall policy modify -vserver cluster1
-policy intercluster -service ndmp 0.0.0.0/0
```

### 3. Ensure that the failover policy is set appropriately for the intercluster LIFs:

- a. Verify that the failover policy for the intercluster LIFs is set to `local-only` by using the `network interface show -failover` command.

```
cluster1::> network interface show -failover
```

| Vserver    | Logical Interface | Home Node:Port | Failover Policy   | Failover Group |
|------------|-------------------|----------------|-------------------|----------------|
| cluster1   | **IC1             | cluster1-1:e0a | local-only        |                |
| Default**  |                   |                |                   |                |
|            |                   |                | Failover Targets: |                |
|            |                   |                | .....             |                |
|            | **IC2             | cluster1-2:e0b | local-only        |                |
| Default**  |                   |                |                   |                |
|            |                   |                | Failover Targets: |                |
|            |                   |                | .....             |                |
| cluster1-1 | cluster1-1_mgmt1  | cluster1-1:e0m | local-only        | Default        |
|            |                   |                | Failover Targets: |                |
|            |                   |                | .....             |                |

- b. If the failover policy is not set appropriately, modify the failover policy by using the `network interface modify` command with the `-failover-policy` parameter.

```
cluster1::> network interface modify -vserver cluster1 -lif IC1  
-failover-policy local-only
```

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