



# **Configure node-scoped NDMP**

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# Configure node-scoped NDMP

## Enable node-scoped NDMP on the cluster

You can back up volumes hosted on a node by enabling node-scoped NDMP, setting up the password for the root user, and configuring a LIF for data and control connection.

You can configure node-scoped NDMP by enabling node-scoped NDMP on the cluster and NDMP service on all nodes of the cluster. You must also configure the `root` user for NDMP when enabling the NDMP service.

### 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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