Configure node-scoped NDMP

ONTAP 9

NetApp
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Enable node-scoped NDMP on the ONTAP 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:

   ```
   cluster1::> system services ndmp node-scope-mode on
   ```

   NDMP node-scope-mode is enabled.

2. Enable NDMP service on all nodes in the cluster:

   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:

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

   ```
   cluster1::> system services ndmp modify -node * -clear-text false
   ```

4. Verify that NDMP service is enabled and the `-clear-text` option is disabled:

```
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 ONTAP LIFs for node-scoped NDMP

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.

Beginning with ONTAP 9.10.1, firewall policies are deprecated and wholly replaced with LIF service policies. For more information, see Manage supported traffic.

ONTAP 9.10.1 or later

Steps

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

   ```
   network interface show -service-policy default-intercluster
   ```

2. Ensure that the intercluster LIF includes the `backup-ndmp-control` service:

   ```
   network interface service-policy show
   ```

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
               Logical          Home               Failover
   Failover
   Vserver     Interface        Node:Port          Policy       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
   ```

Learn more about `network interface show`, `network interface service-policy show`,

and `network interface modify` in the ONTAP command reference.

ONTAP 9.9 or earlier

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

            Logical    Status     Network            Current
Current Is
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
            Logical          Home               Failover
Failover
Vserver     Interface        Node:Port          Policy       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
```

Learn more about `network interface show` and `network interface modify` in the ONTAP command reference.

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