Lab Report

Your Performance

Your Score: 6 of 8 (75%)   Pass Status: Not Passed

Elapsed Time: 10 minutes 42 seconds   Required Score: 100%

Task Summary

✔ Create the NLB cluster   Hide Details

> ➕ Use CorpNLB.CorpNet.com for the cluster name
> ➕ Use 192.168.10.25/24 for the cluster IP address
> ➕ Use Unicast operation mode

✔ Add CorpNLB1 as a cluster host   Hide Details

> ➕ Add the server as a cluster host
> ➕ Configure the server with priority 1

✔ Add CorpNLB2 as a cluster host   Hide Details

> ➕ Add the server as a cluster host
> ➕ Configure the server with priority 2

✖ Create a port rule for ports 0 to 1023   Hide Details

> ➕ Create the port rule
> ➕ Create the rule for both TCP and UDP
> ➕ Use Multiple host for the filtering mode
> ➖ Use None for the client affinity
> ➕ Distribute the load equally between both servers

✖ Create a port rule for port 6066   Hide Details

> ➕ Create the port rule
> ➕ Create the rule for both TCP and UDP
> ➕ Use Multiple host for the filtering mode
> ➖ Use None for the client affinity
> ➕ Configure CorpNLB2 with a load weight of 100
> ➕ Configure CorpNLB1 with a load weight of 0

✔ Create a port rule for port 32187   Hide Details

> ➕ Create the port rule
> ➕ Create the rule for both TCP and UDP
> ➕ Use Single host for the filtering mode
> ➕ Configure CorpNLB1 with a handling priority of 1
> ➕ Configure CorpNLB2 with a handling priority of 2

✔ Create a port rule for ports 49152 through 65535   Hide Details

> ➕ Create the port rule

➕ Create the rule for both TCP and UDP

➕ Disable the port range

✔ Create a host record in DNS for the NLB cluster   Hide Details

➕ Create the CorpNLB A record in the CorpNet.com zone

➕ Configure 192.168.10.25 for the IP address

Explanation

In this lab, you create an NLB cluster using the CorpNLB1 and CorpNLB2 servers and define port rules to customize how the servers respond by completing the following tasks.

- Create a new cluster using the following parameters:
    - Cluster host: **CorpNLB1**
    - Interface name: **Corp**
    - Priority (host identifier): **1**
    - Cluster IP address: **192.168.10.25/24**
    - Full Internet name: **CorpNLB.CorpNet.com**
    - Cluster operation mode: **unicast**
- Edit or create the following port rules:

Ports	Protocols	Filtering mode	Client affinity
0 to 1023	TCP and UDP	Multiple host	None
6066	TCP and UDP	Multiple host	None
32187	TCP and UDP	Single host	N/A
49152 to 65535	TCP and UDP	Disable this port range	N/A

- Add CorpNLB2 as a cluster host using the following parameters:
    - Cluster host: **CorpNLB2**
    - Interface name: **Corp**
    - Priority (host identifier): **2**
- Edit CorpNLB2 ports using the following parameters:
    - For port 6066, configure a load weight of **100**.
    - For port 32187, configure a handling priority of **2**.
- For CorpNLB1, edit the port rule for port 6066 with a load weight of **0**.
- On CorpDC3, use DNS console to create an A record using the following parameters:
    - Zone: **CorpNet.com**
    - Host name: **CorpNLB**
    - IP address: **192.168.10.25**

Following are steps that an expert might take to perform the tasks in this lab:

1. Create an NLB cluster as follows:
    a. From Server Manager, select **Tools** > **Network Load Balancing Manager**.
    b. Right-click **Network Load Balancing Clusters** and select **New Cluster**.
    c. Type the *name* of a cluster host.
    d. Select **Connect**.
    e. Select the *interface* that the cluster will use; then click **Next**.
    f. Make sure the Priority is set to **1**.
    g. Make sure the default state is set to **Started**; then click **Next**.
    h. Click **Add**.
    i. Make sure **Add IPv4 address** is selected.
    j. Enter the *IP address*.
    k. Press **Tab** to auto-populate the *subnet mask*; then click **OK**.

    l. Click **Next**.

    m. Type the *full Internet name* for the NLB cluster.

    n. Select the *cluster operation mode*; then click **Next**.

2. Create and edit port rules as follows:

    a. Select the existing *rule*.

    b. Select **Edit** to modify an existing port rule.

    c. Under Port range, modify the *ports*.

    d. Under Protocols, select the appropriate *protocols*.

    e. Under Filtering mode, select the *filtering mode*.

    f. Select the *affinity*; then click **OK**.

    g. Select **Add** to create a new rule.

    h. Under Port range, modify the *ports*.

    i. Under Protocols, select the appropriate *protocols*.

    j. Under Filtering mode, select the *filtering mode*.

    k. Select the *affinity*; then click **OK**.

    l. Repeat steps 2g-2k to create additional port rules.

    m. Click **Finish** to create the cluster.

3. Add CorpNLB2 as a cluster host as follows:

    a. In Network Load Balancing Manager, right-click the *cluster* and select **Add Host To Cluster**.

    b. Type the *name* of a cluster host.

    c. Click **Connect**.

    d. Select the *interface* that the cluster will use; then click **Next**.

    e. Make sure the Priority is set to **2**.

    f. Make sure the default state is set to **Started**; then click **Next**.

4. Modify port rules on CorpNLB2 as follows:

    a. Modify the load weight as follows:

      1. Select the *port rule* you wish to modify and click **Edit**.

      2. Under Load weight, deselect **Equal**.

      3. Enter the *load weight*; then click **OK**.

    b. Modify the handling priority as follows:

      1. Select the *port rule* you wish to modify and click **Edit**.

      2. Enter the *handling priority*; then click **OK**.

    c. Click **Finish** to add the host to the cluster.

5. Modify port rules on CorpNLB1 as follows:

    a. In the Network Load Balancing Manager console, right-click **CorpNLB1(Corp)** and select **Host Properties**.

    b. Select the **Port Rules** tab.

    c. Select the port rule **6066**.

    d. Click **Edit**.

    e. Deselect **Equal** to modify the load weight.

    f. Enter the new *load weight*; then click **OK**.

    g. Click **OK** to close the properties dialog.

6. Create a host (A) record as follows:

    a. From the top menu, select the **Inside** location tab.

    b. Select **CorpDC3**.

    c. From Server Manager, select **Tools** > **DNS**.

    d. Expand **CorpDC3** > **Forward Lookup Zones**.

    e. Right-click **CorpNet.com** and select **New Host (A or AAAA)**.

    f. Enter the *host name*.

    g. Enter the *IP address*.

    h. Click **Add Host**.

    i. Click **OK**.

    j. Click **Done** to close the New Host dialog.