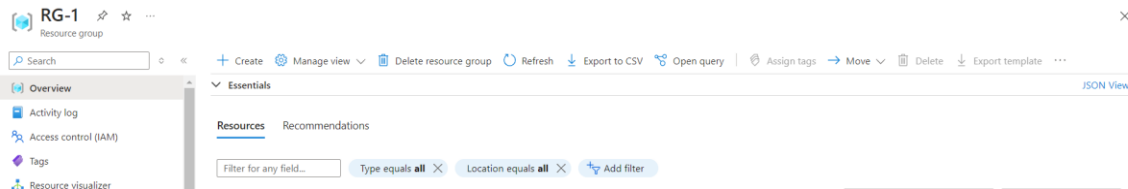


Task: Create a Load Balancer First and Then Deploy VMs

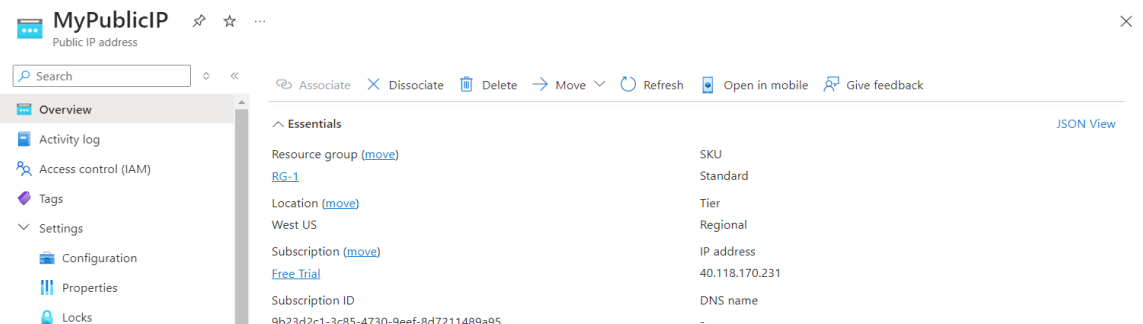
Step 1: Create a Resource Group (if not already created)

1. Go to the Azure Portal.
2. Search for and select "Resource groups".
3. Click on "Create".
4. Fill in the details:
 - **Resource group name:** RG-1
 - **Region:** Select "West US"
5. Click "Review + Create" and then "Create".



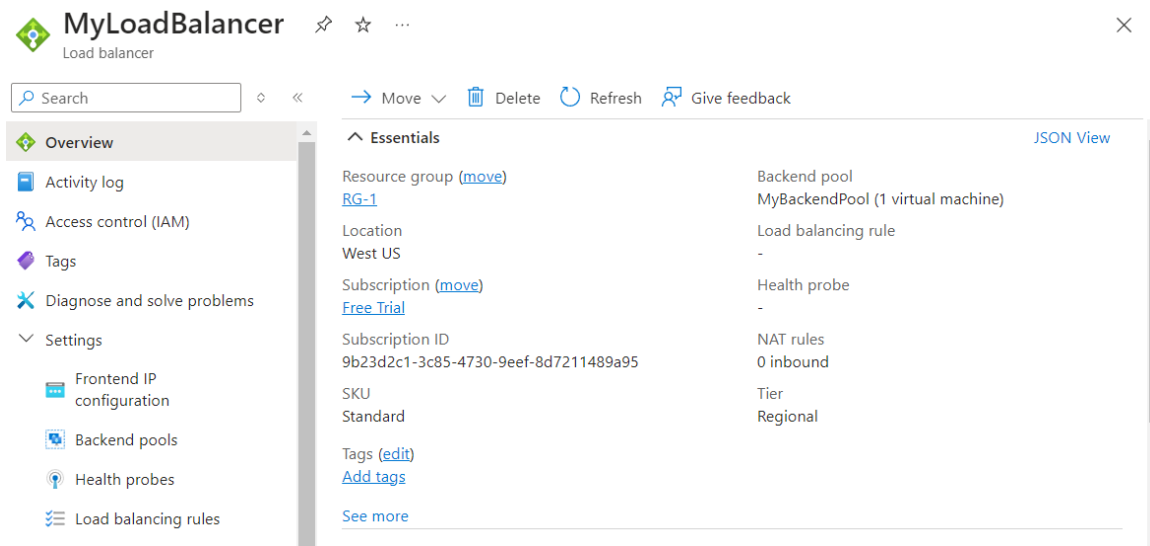
Step 2: Create a Public IP Address for the Load Balancer

1. Go to the Azure Portal.
2. Search for and select "Public IP addresses".
3. Click on "Create".
4. Fill in the details:
 - **Name:** MyPublicIP
 - **SKU:** Standard
5. Click "Review + Create" and then "Create".



Step 3: Create the Load Balancer

1. In the Azure Portal, search for and select "Load balancers".
2. Click on "Create".
3. Fill in the details:
 - **Name:** MyLoadBalancer
 - **Resource group:** RG-1
 - **SKU:** Standard
 - **Public IP address:** MyPublicIP
4. Click "Review + Create" and then "Create".



Step 4: Create Backend Pool

1. Go to the "MyLoadBalancer" blade.
2. Click on "Backend pools" in the left menu and then "Add".
3. Fill in the details:
 - **Name:** MyBackendPool
4. Click "Add" to create the backend pool.

MyLoadBalancer | Backend pools ☆ ...

Load balancer

Search

+ Add Refresh

The backend pool is a critical component of the load balancer. The backend pool defines the group of resources that will serve traffic for a given load-balancing rule. [Learn more.](#)

Add filter

Backend...	Resourc...	IP address	Network...	Availabil...	Rules co...	Resourc...	Admini
MyBackendPool (2)							
MyBackend	Linux-VM	10.0.1.4	linux-vm78	-	0	Running	None
MyBackend	vm2	10.0.1.5	vm2127	-	0	Running	None

Step 7: Deploy VM1

1. Go to the Azure Portal.
2. Search for and select "Virtual machines".
3. Click on "Add" and select "Virtual machine".
4. Fill in the details:
 - **VM name:** VM1
 - **Region:** RG-1
 - **Image:** Ubuntu LTS
 - **Admin username:** azureuser
 - **Authentication type:** SSH public key
5. Click on "Review + Create" and then "Create".
6. After VM1 is created, navigate to the "VM1" blade, select "Run command", and then "RunShellScript". Enter the command to install Apache2:

sudo apt update && sudo apt install -y apache2

Step 8: Deploy VM2

1. Go to the Azure Portal.
2. Search for and select "Virtual machines".

3. Click on "Add" and select "Virtual machine".
4. Fill in the details:
 - **VM name:** VM2
 - **Region:** RG-1
 - **Image:** Ubuntu LTS
 - **Admin username:** azureuser
 - **Authentication type:** SSH public key
5. Click on "Review + Create" and then "Create".
6. After VM2 is created, navigate to the "VM2" blade, select "Run command", and then "RunShellScript". Enter the command to install Apache2:

sudo apt update && sudo apt install -y apache2

Step 9: Update index.html on VM1

1. SSH into VM1:

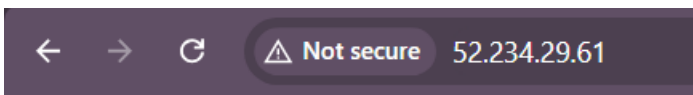
ssh azureuser@<VM1_Public_IP>

2. Change the index.html file:

sudo apt update && sudo apt install -y apache2

echo "This is VM1" | sudo tee /var/www/html/index.html

```
root@Linux-VM:/home/azureuser# echo "This is VM1" | sudo tee /var/www/html/index.html
This is VM1
root@Linux-VM:/home/azureuser# exit
```



This is VM1

Step 10: Update index.html on VM2

Using Azure CLI:

1. SSH into VM2:

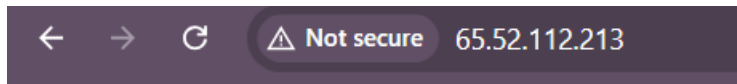
ssh azureuser@<VM2_Public_IP>

2. Change the index.html file:

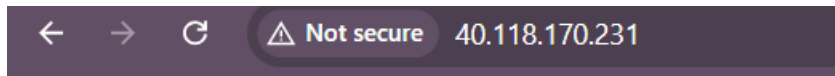
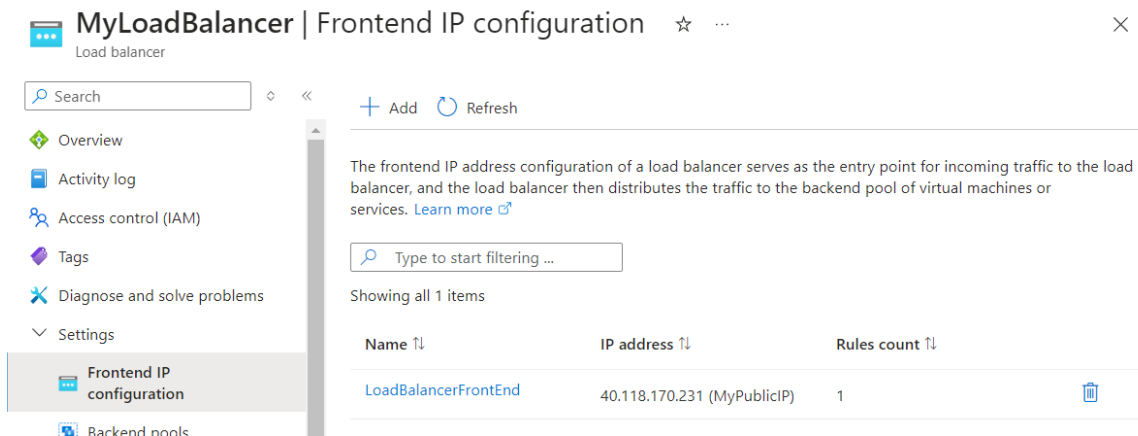
sudo apt update && sudo apt install -y apache2

echo "This is VM2" | sudo tee /var/www/html/index.html

```
azureuser@vm2:~$ sudo su
root@vm2:/home/azureuser# echo "This is VM2" | sudo tee /var/www/html/index.html
tee: /var/www/html/index.html: No such file or directory
This is VM2
```



This is VM2



This is VM1

Step 3: Set Up Azure Monitor for Alerts

1. Enable Network Watcher:

1. In the Azure Portal, search for **Network Watcher**.
2. Under **Network Watcher Settings**, select **Regions** and make sure the region where your VMs are deployed is enabled.

2. Create a Connection Monitor:

1. In **Network Watcher**, go to **Connection Monitor** and click on **+ Create**.
2. Set a **Name** for the monitor and select the **Resource Group** and **Region**.
3. In the **Source and Destination** section:
 - Set **VM1** as the source and **VM2** as the destination.
4. Click **Add Test** and **Create** the connection monitor.

Add test group details ...



A Test group lets you define a logical group that will let you validate a set of tests between a source and destination pair using a defined test configuration. start by naming your test group and selecting sources and destination based on which you would like to define test for monitoring your network. [Learn more about test groups](#)

Test group name *

Sources ⓘ	Test configurations ⓘ	Destinations ⓘ										
<div>1 Items</div> <table border="1"> <thead> <tr> <th>Azure endpoints</th> <th>Extension Status ↑↓</th> </tr> </thead> <tbody> <tr> <td> VM1-vnet(RG-1) Subscription : Free Trial Resource group: RG-1 Edit </td> <td> Enabled ✕ </td> </tr> </tbody> </table> <div>Add sources</div>	Azure endpoints	Extension Status ↑↓	VM1-vnet(RG-1) Subscription : Free Trial Resource group: RG-1 Edit	Enabled ✕	<div>1 Items</div> <table border="1"> <thead> <tr> <th>test</th> </tr> </thead> <tbody> <tr> <td> <div>✎ ✕</div> </td> </tr> </tbody> </table> <div>Add Test configuration</div>	test	<div>✎ ✕</div>	<div>1 Items</div> <table border="1"> <thead> <tr> <th>Azure endpoints</th> <th>Extension Status ↑↓</th> </tr> </thead> <tbody> <tr> <td> VM1-vnet(RG-1) Subscription : Free Trial Resource group: RG-1 Edit </td> <td> Enabled ✕ </td> </tr> </tbody> </table> <div>Add destinations</div>	Azure endpoints	Extension Status ↑↓	VM1-vnet(RG-1) Subscription : Free Trial Resource group: RG-1 Edit	Enabled ✕
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test												
<div>✎ ✕</div>												
Azure endpoints	Extension Status ↑↓											
VM1-vnet(RG-1) Subscription : Free Trial Resource group: RG-1 Edit	Enabled ✕											

☐ Disable test group
While creating the Connection Monitor, if you have disabled a test group you will not be charged for it unless you enable it again

3. Create an Alert:

1. In the Azure Portal, search for **Monitor** and go to the **Alerts** section.
2. Click **+ New alert rule**.
3. In the **Resource** section, select the **Connection Monitor** created in the previous step.
4. In **Condition**, click on **Add Condition** and select the **Round Trip Time** metric.
 - Set the condition to trigger when the average RTT exceeds **100 ms**.

Create an alert rule ...

Scope **Condition** Actions Details Tags Review + create


Configure when the alert rule should trigger by selecting a signal and defining its logic.

Signal name * ⓘ

 Round-Trip Time (ms) ▼

[See all signals](#)

Alert logic

 We have set the condition configuration automatically based on popular settings for this metric. Please review and make changes as needed.

Threshold ⓘ

☒ Static ☐ Dynamic

Aggregation type ⓘ

Average ▼

Operator ⓘ

Greater than ▼

Threshold * ⓘ

100 ✓

milliseconds

Split by dimensions

Use dimensions to monitor specific time series and provide context to the fired alert. [About monitoring multiple time series](#)

Review + create

Previous

Next: Actions >

5. Under **Actions**, create an **Action Group** with an email or SMS notification.

4. Configure the Action Group:

1. When creating an alert rule, in the **Actions** section, click **Create New Action Group**.
2. Provide the **Action Group** details, and under **Notifications**, choose **Email/SMS/Push/Voice**.
3. **Save** and attach this action group to the alert.

Email/SMS message/Push/Voice

✕

Add or edit Email/SMS message/Push/Voice action

☒ Email

Email * ⓘ ✓

☐ SMS (Carrier charges may apply)

Country code ▼

You've been added to an Azure Monitor action group

You are now in the SMS action group and will receive notifications sent to the group.

[View details on Azure Monitor action groups >](#)

Account information

Subscription ID: 9B23D2C1-3C85-4730-9EEF-8D7211489A95

Resource group name: NetworkWatcherRG

Action group name: SMS
