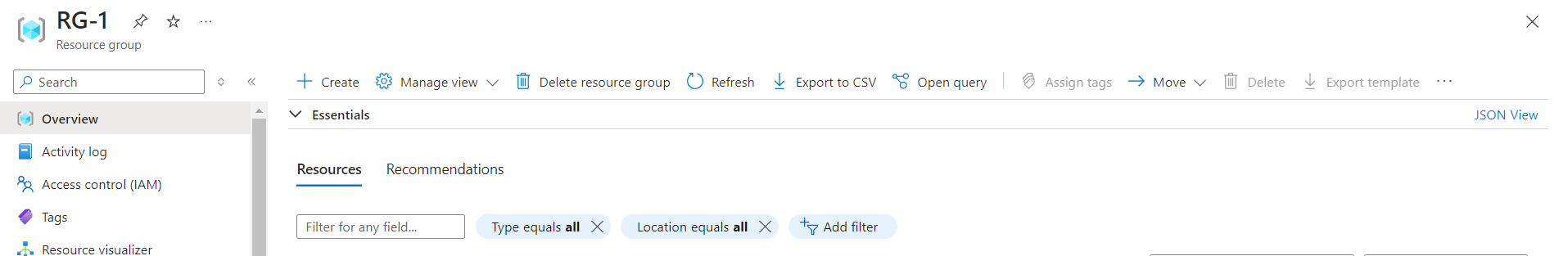
**Task: Create a Load Balancer First and Then Deploy VMs**

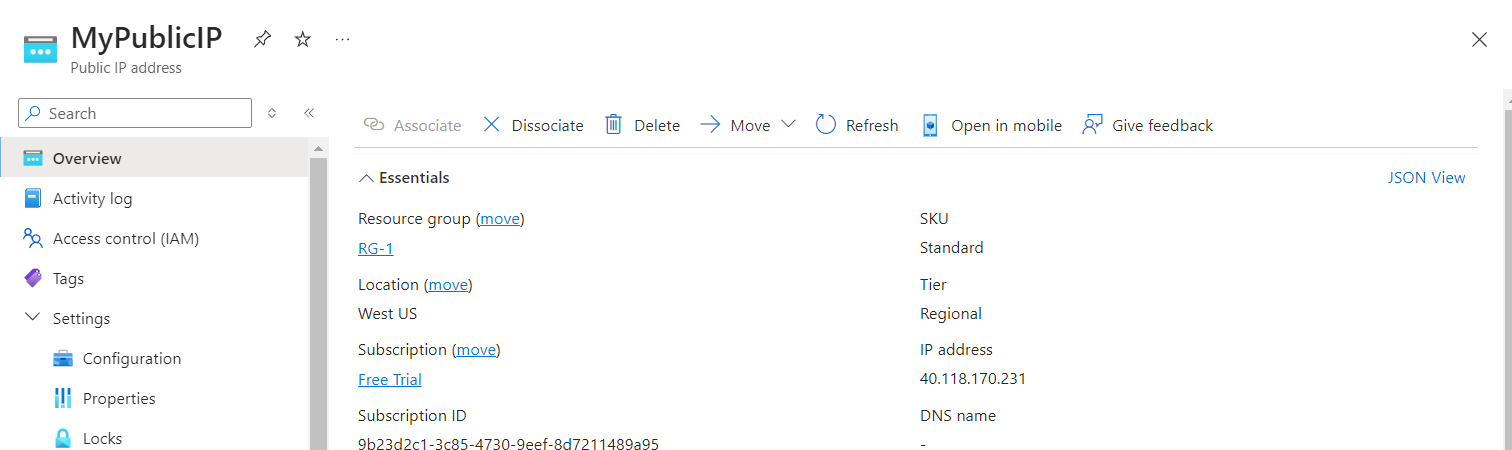
**Step 1: Create a Resource Group (if not already created)**

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".



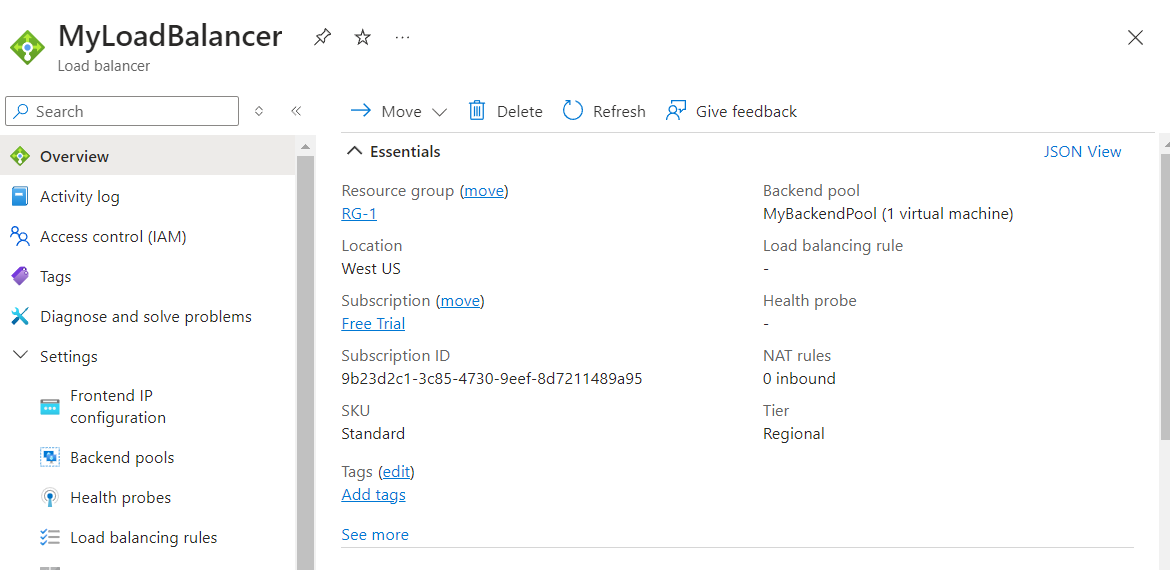
**Step 2: Create a Public IP Address for the Load Balancer**

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".



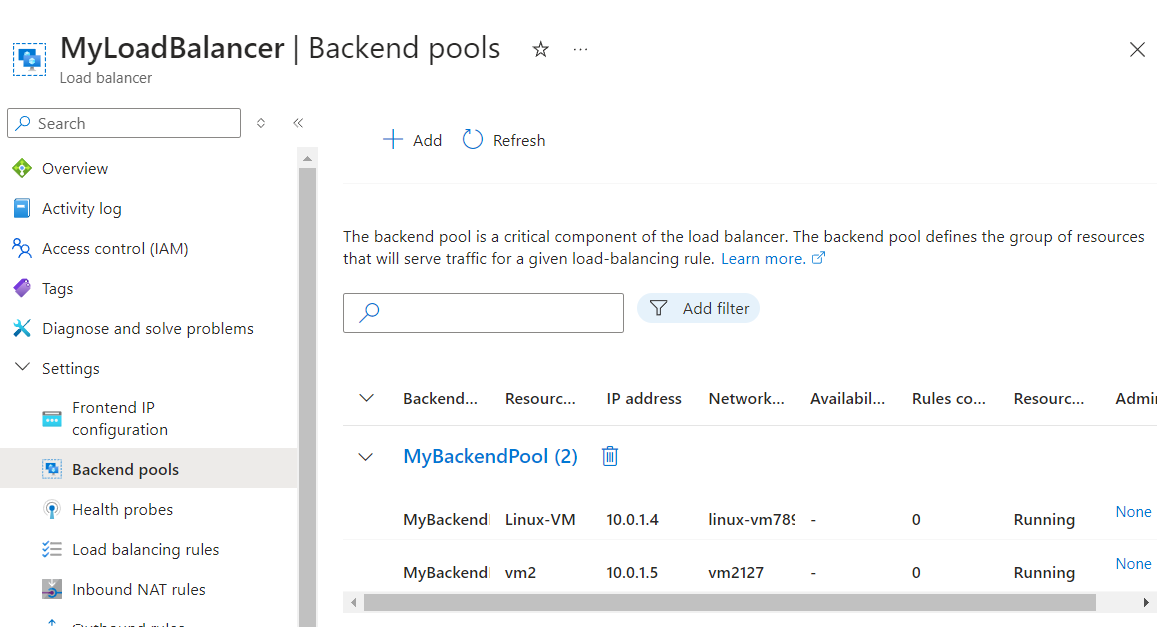
**Step 3: Create the Load Balancer**

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.



**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**

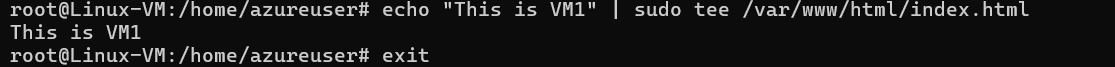
1. SSH into VM1:

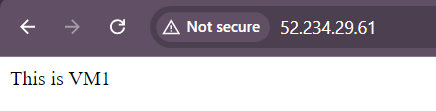
**ssh azureuser@<VM1\_Public\_IP>**

1. Change the index.html file:

**sudo apt update && sudo apt install -y apache2**

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

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**Step 10: Update index.html on VM2**

**Using Azure CLI:**

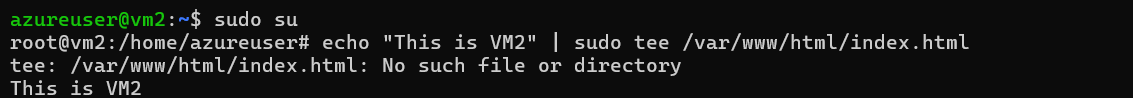
1. SSH into VM2:

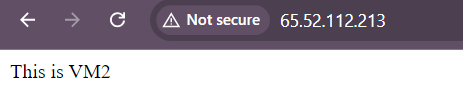
**ssh azureuser@<VM2\_Public\_IP>**

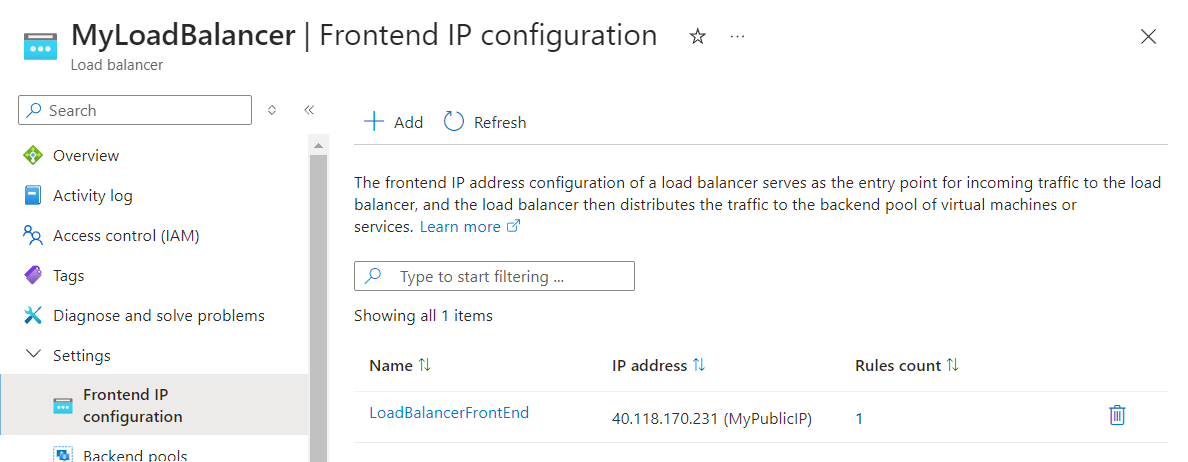
1. Change the index.html file:

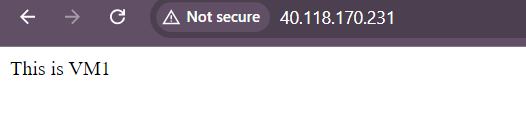
**sudo apt update && sudo apt install -y apache2**

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

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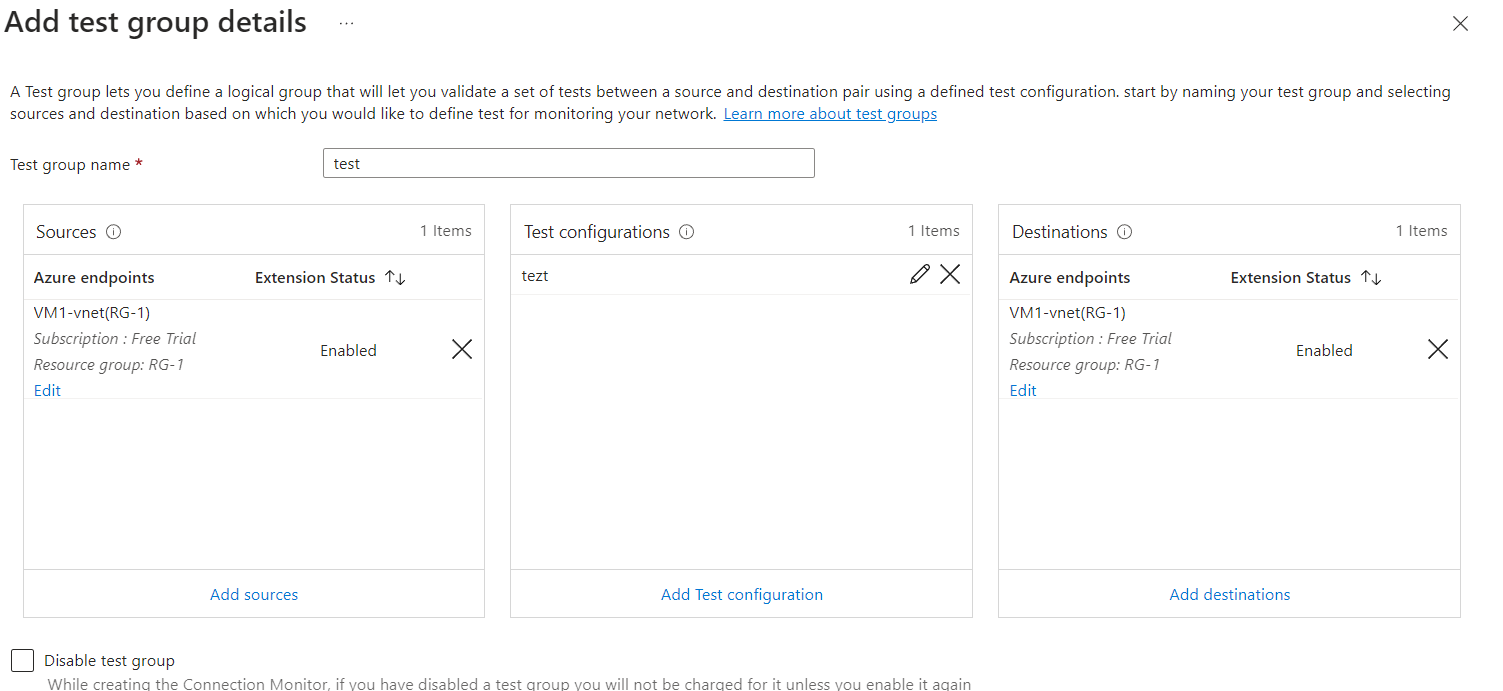
**Step 3: Set Up Azure Monitor for Alerts**

**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.

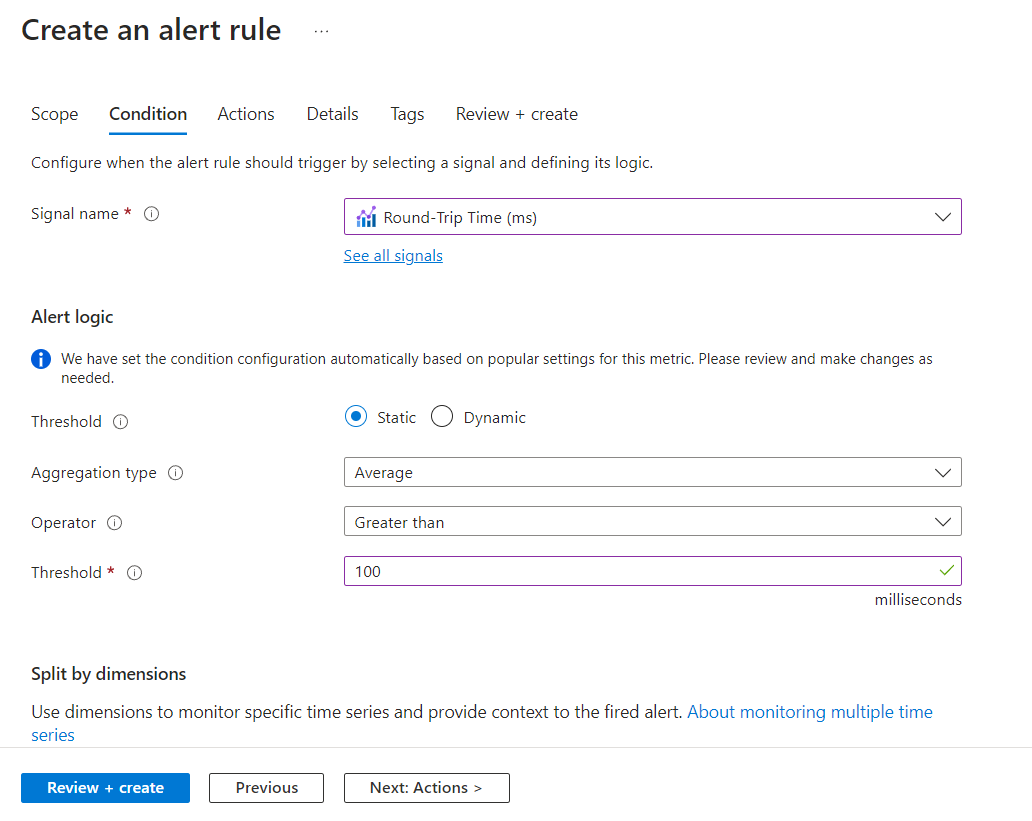
**2. Create a Connection Monitor:**

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.



**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**.



1. 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.

