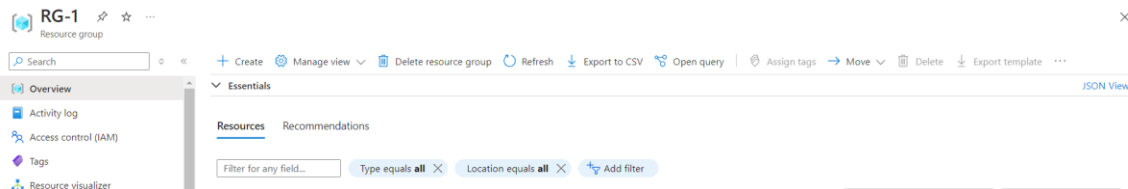


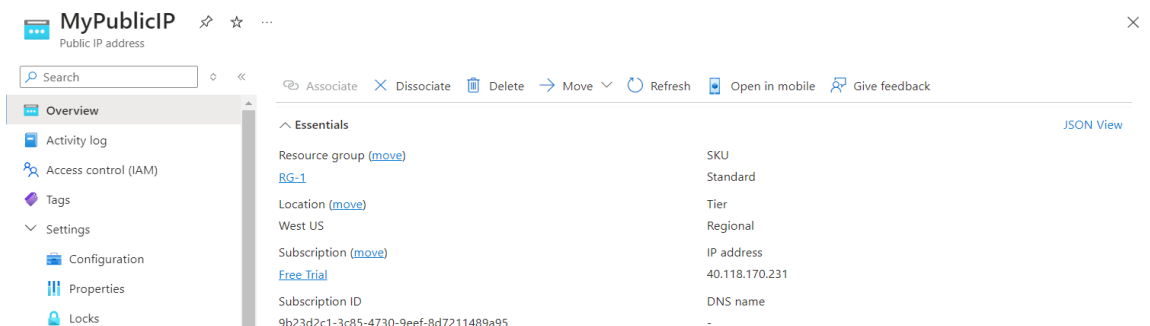
Step 1: Create a Resource Group

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

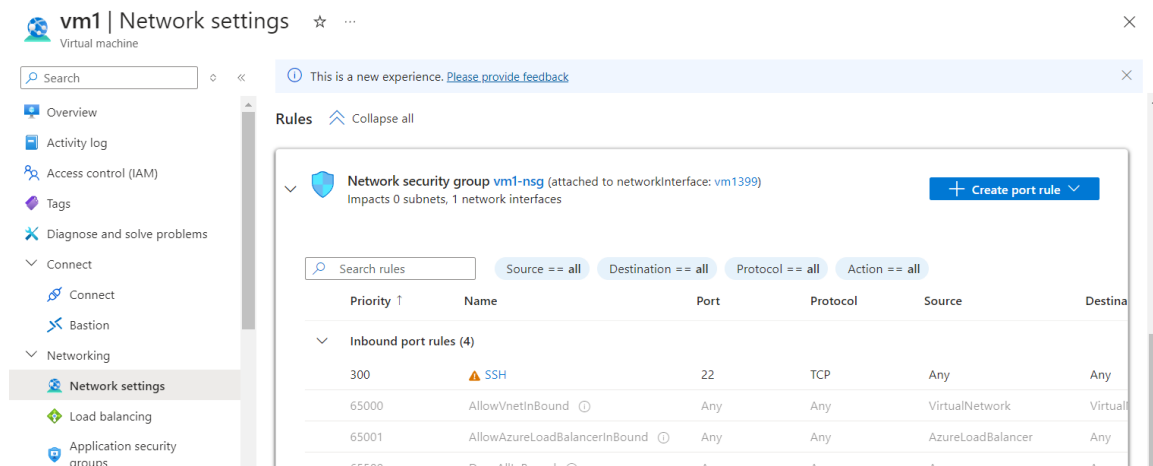
1. Go to the Azure Portal.
2. Search for and select "Public IP addresses".
3. Click on "Create".
4. Fill in the details:
 - **Name:** MyPublicIP
 - **SKU:** Standard
5. Click "Review + Create" and then "Create".



Step 3: 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



vm1 | Network settings

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Networking

Network settings

Load balancing

Application security groups

Rules

Collapse all

Network security group vm1-nsg (attached to networkinterface: vm1399)

Impacts 0 subnets, 1 network interfaces

+ Create port rule

Search rules

Source == all

Destination == all

Protocol == all

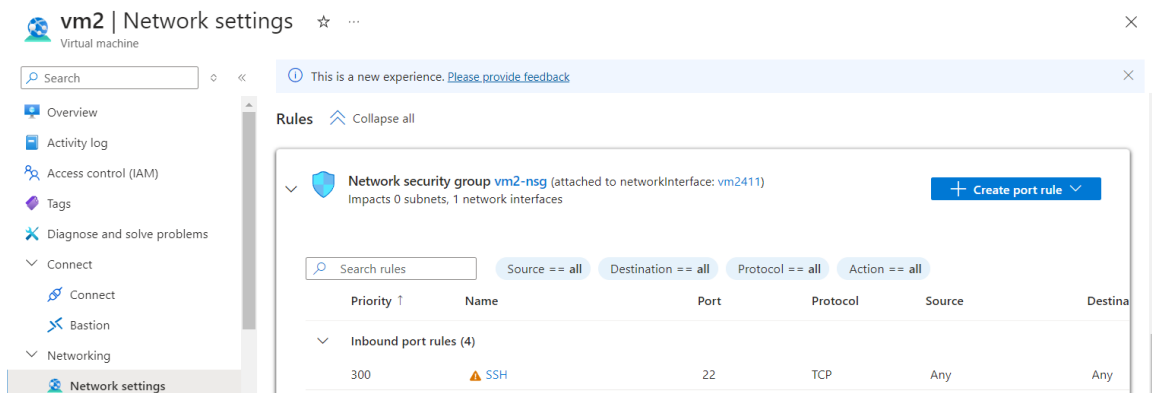
Action == all

Priority	Name	Port	Protocol	Source	Destination
Inbound port rules (4)					
300	SSH	22	TCP	Any	Any
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any
65000	DenyAllInBound	Any	Any	Any	Any

Step 4: 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



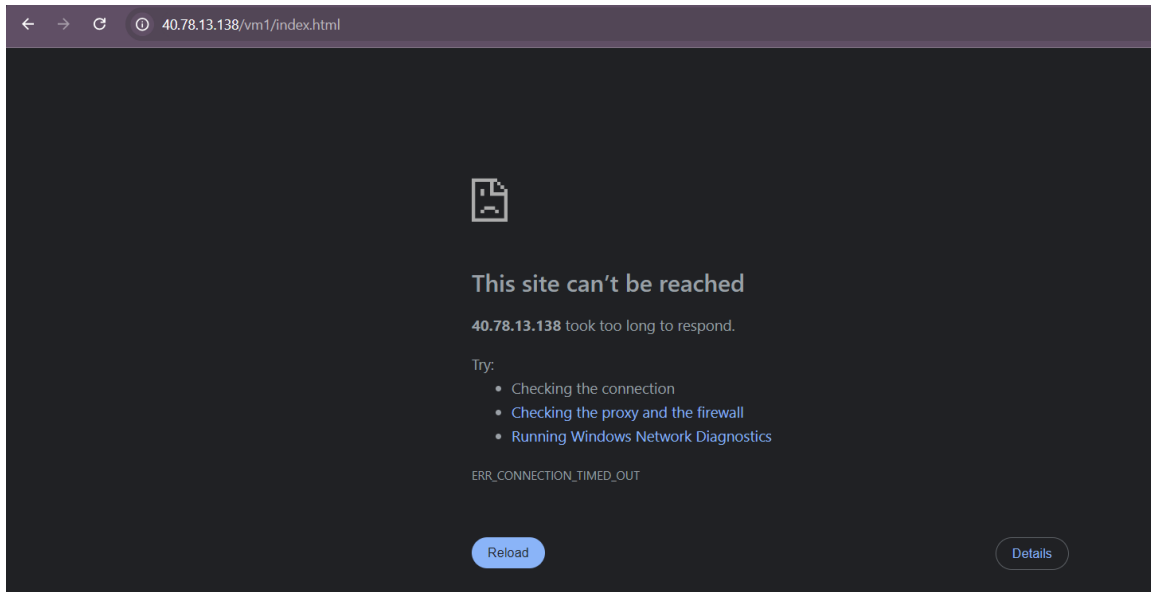
We do not require to allow port 80 in NSG because we are using App Gateway. It will not be accessible directly.

Step 5: Update index.html on VM1

1. SSH into VM1:
ssh azureuser@<VM1_Public_IP>
2. Change the index.html file:

echo "This is VM1" | sudo tee /var/www/html/vm1/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
```



Step 6: Update index.html on VM2

Using Azure CLI:

1. SSH into VM2:

ssh azureuser@<VM2_Public_IP>

2. Change the index.html file:

echo "This is VM2" | sudo tee /var/www/html/vm2/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
```

Step 7: Locate Public IPs:

- Inside the resource group, find your two VMs (myVM1 and myVM2).
- For each VM, click on the **Networking** section on the left menu.

- Under **Public IP addresses**, click on the **Public IP** resource linked to each VM.

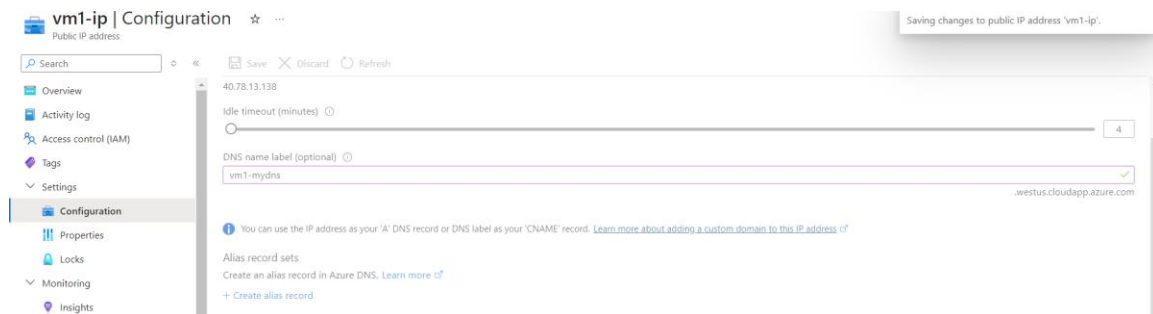
Step 8: Configure DNS Settings

1. Go to the Public IP Configuration:

- Once you're on the Public IP address page, look for the **Configuration** option under the **Settings** section in the left menu.

2. Set the DNS Name Label:

- In the **Configuration** page, you'll find a section for **DNS name label**.
- Enter a unique DNS name for each VM:
 - For VM1, you might use something like **vm1-mydns**(which would create the DNS name **vm1-mydns.westus.cloudapp.azure.com**).



- For VM2, you might use **vm2-mydns** (which would create the DNS name **vm2-mydns.westus.cloudapp.azure.com**).

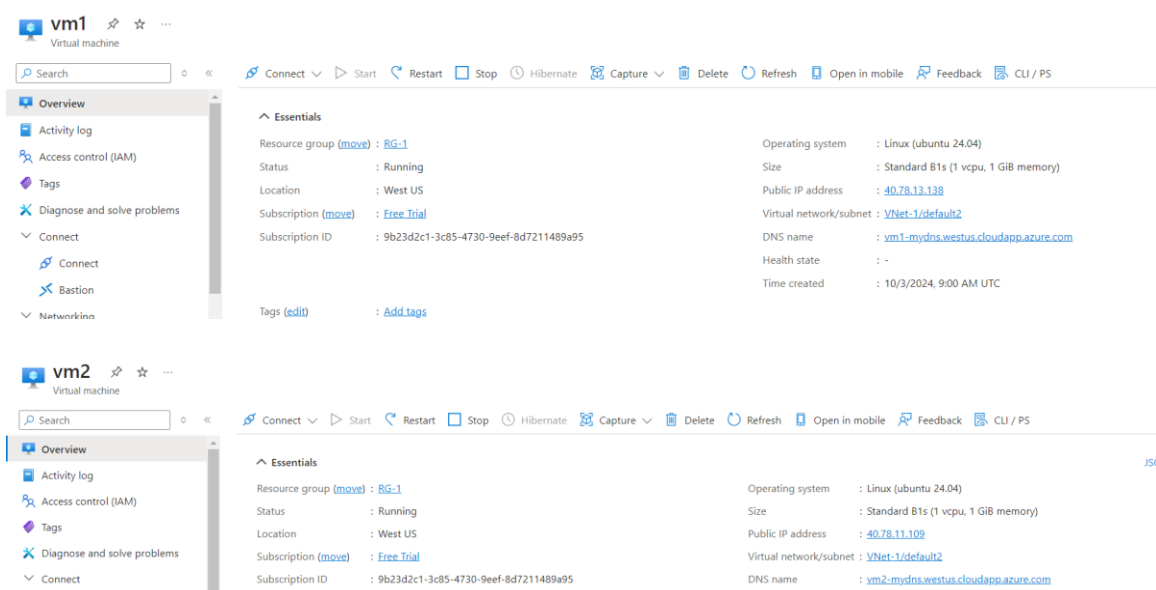
3. Save the Configuration:

- Click on the **Save** button at the top to apply the DNS name settings.

Step 3: Verify the DNS Configuration

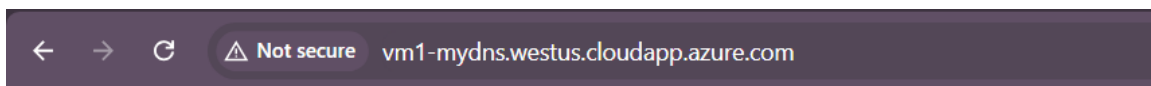
1. Check the Public DNS Names:

- After saving, navigate back to the Public IP address overview page.
- You should see the new DNS name under **DNS Name**.



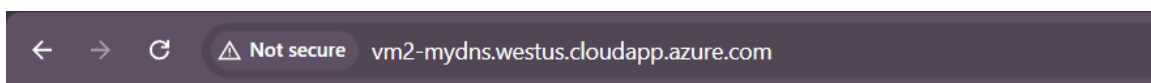
2. Test the DNS Configuration:

- Open a web browser and enter the following URLs:
 - For myVM1: **vm1-mydns.westus.cloudapp.azure.com**



This is VM1

- For myVM2: **vm2-mydns.westus.cloudapp.azure.com**



This is VM2