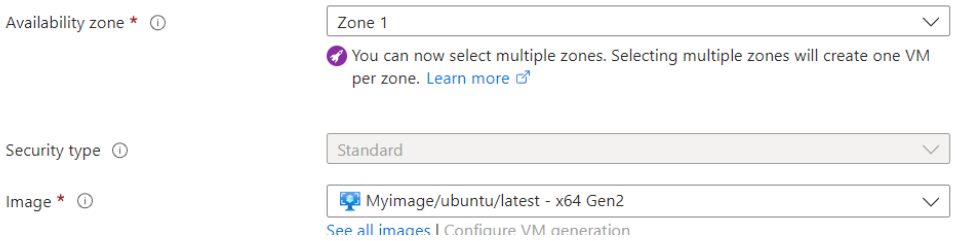
Step 1: Deploy a VM from the Previously Created Image

1. **Log in to the Azure Portal**:
    - Go to the Azure Portal and sign in.
2. **Create a New Virtual Machine from the Image**:
    - Click on **"Create a resource"** from the left-hand menu.
    - In the **"Image"** section, select **"My Items"** to find your previously created image.
    - Choose the image you created earlier.

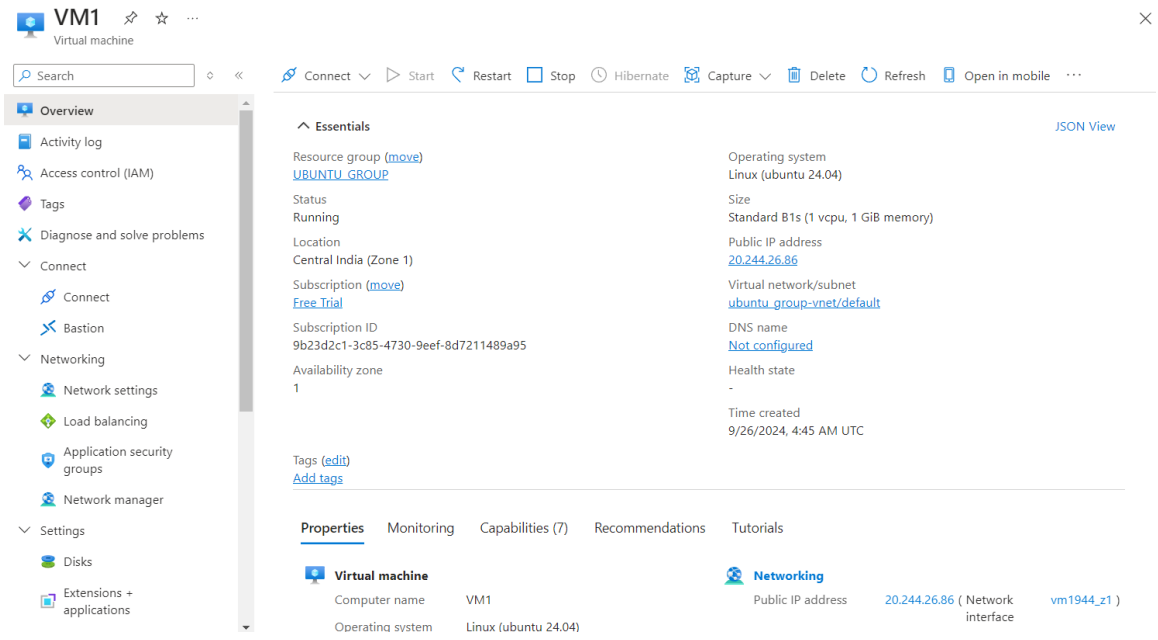


3. **Configure the VM Basics**:
    - Fill in the required fields, such as **Subscription**, **Resource Group**, **VM Name**, **Region**, **Size**, and **Administrator Account** (same credentials as before, if applicable).
4. **Configure Networking**:
    - Ensure the VM is attached to the correct virtual network and subnet.
    - Ensure a Public IP is assigned.
5. **Review + Create**:
    - Review your configurations and click **"Create"** to deploy the VM from the image. Wait for the deployment to complete.

Step 2: Open Port 80 in Network Security Group (NSG)

1. **Go to the NSG**:
    - In the Azure Portal, navigate to **"Networking"** from the VM's left menu or search for **"Network Security Groups"** in the portal.
2. **Select the NSG Associated with the VM**:
    - Find and select the NSG associated with your VM's network interface.

3. **Add an Inbound Security Rule**:
    - Under **Settings**, click on **"Inbound security rules"**.
    - Click **"Add"** to create a new rule.
        - **Source**: Any
        - **Source port ranges**: *
        - **Destination**: Any
        - **Destination port ranges**: 80
        - **Protocol**: TCP
        - **Action**: Allow
        - **Priority**: (set a priority number that fits within your existing rules, e.g., 1000)
        - **Name**: Give it a name, e.g., "Allow_HTTP"
4. **Click on "Add"** to create the rule.



Step 3: Start the Apache 2 Service in the VM

1. **Connect to the VM**:

- Once the VM is running, connect to it using SSH (for Ubuntu) from your terminal:

2. **Start the Apache 2 Service**:

   - Run the following commands to ensure Apache is running:

   sudo systemctl start apache2

   sudo systemctl enable apache2

```
Last login: Thu Sep 26 03:20:46 2024 from 103.148.8.242
azureuser@VM1:~$  sudo systemctl start apache2
sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
azureuser@VM1:~$ systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
     Active: active (running) since Thu 2024-09-26 04:46:35 UTC; 1min 13s ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 1020 (apache2)
      Tasks: 55 (limit: 1064)
     Memory: 7.9M (peak: 8.1M)
        CPU: 48ms
     CGroup: /system.slice/apache2.service
             ├─1020 /usr/sbin/apache2 -k start
             ├─1021 /usr/sbin/apache2 -k start
             └─1022 /usr/sbin/apache2 -k start

Sep 26 04:46:32 VM1 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Sep 26 04:46:35 VM1 systemd[1]: Started apache2.service - The Apache HTTP Server.
azureuser@VM1:~$
```

Step 4: Verify Website Access

1. **Open a Web Browser**: