Step 1: Create a Virtual Machine in Azure

1. Log in to the Azure Portal:

o Go to the <u>Azure Portal</u> and sign in with your account.

2. Create a New Virtual Machine:

o In the Azure Portal, click on "Create a resource" from the left-hand menu.

3. Configure the VM Basics:

- o **Subscription**: Choose your subscription.
- **Resource Group**: You can either create a new resource group or select an existing one.
- o **Virtual Machine Name**: Give your VM a name.
- o **Region**: Select **"West US"** from the dropdown menu.
- **Availability Options**: Choose according to your needs (No infrastructure redundancy, Availability zone, etc.).
- o **Image**: Select **"Ubuntu"** from the list of available images (choose the specific version you need, e.g., Ubuntu 20.04 LTS).
- o **Size**: Choose the VM size based on your requirements.

4. Configure Administrator Account:

- Choose the Authentication type (SSH public key or password). If using SSH, you'll need to generate an SSH key pair if you haven't already.
- o Enter the **Username** and **SSH public key** (if applicable).

5. **Configure Networking**:

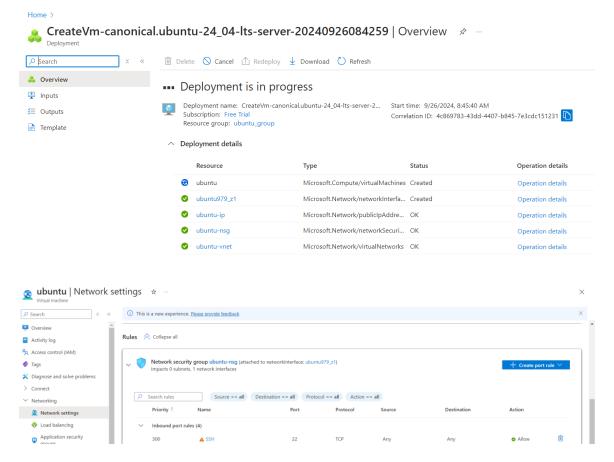
- Under the **Networking** tab, ensure a new virtual network and subnet are created or select an existing one.
- o Make sure to allow **Public IP** to connect to your VM.

6. **Open SSH Port**:

In the Networking section, add an inbound port rule to allow SSH (port 22).

7. Review + Create:

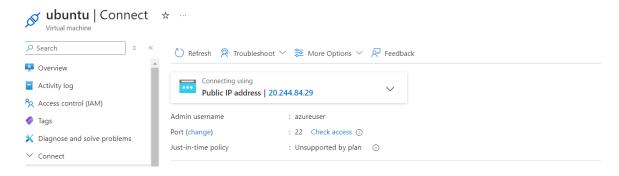
 Review your settings and click "Create" to provision the VM. This may take a few minutes.



Step 2: Connect to the Linux VM using Terminal

1. Get the Public IP Address:

- Once the VM is created, go to the "Overview" page of your VM in the Azure Portal
- o Note the **Public IP address** of the VM.

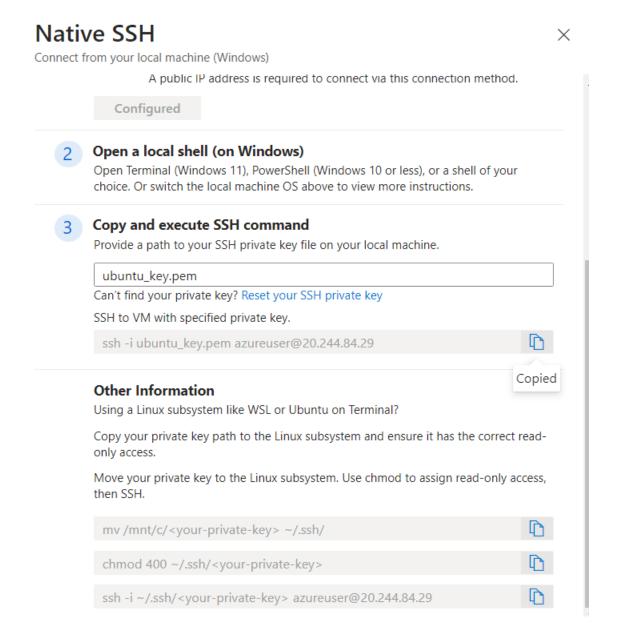


2. Open Terminal:

 On your local machine, open a terminal (Linux, macOS, or Windows with WSL).

3. Connect to the VM:

o Use the following command to connect via SSH:



4. Accept the SSH Key:

The first time you connect, you'll be asked to confirm the authenticity of the host. Type "yes" and hit Enter.

```
Microsoft Windows [Version 10.0.22631.4169]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Mohd Shahid\Downloads>ssh -i ubuntu_key.pem azureuser@20.244.84.29
The authenticity of host '20.244.84.29 (20.244.84.29)' can't be established.
ED25519 key fingerprint is SHA256:4fA3F09zmhQZqMWLJteU0fMl/9dm04iFCuVxz7LxbzE.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])?
```

o If you used a password for authentication, enter it when prompted.

```
System information as of Thu Sep 26 03:20:44 UTC 2024
 System load: 0.09
                                                         112
                                  Processes:
 Usage of /: 5.0% of 28.02GB
Memory usage: 28%
                                  Users logged in:
                                                         0
                                  IPv4 address for eth0: 10.0.0.4
 Swap usage:
               0%
xpanded Security Maintenance for Applications is not enabled.
 updates can be applied immediately.
nable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
he list of available updates is more than a week old.
o check for new updates run: sudo apt update
he programs included with the Ubuntu system are free software;
he exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
buntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
o run a command as administrator (user "root"), use "sudo <command>".
ee "man sudo_root" for details.
zureuser@ubuntu:~$
```