Ex No 9 Install and configure Jenkins on Azure Linux VM

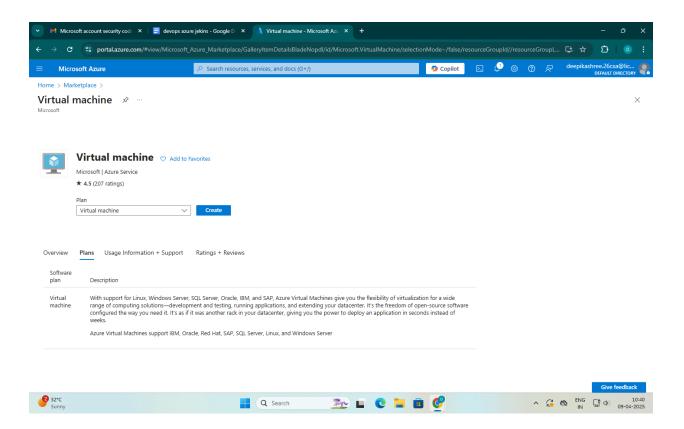
AIM:

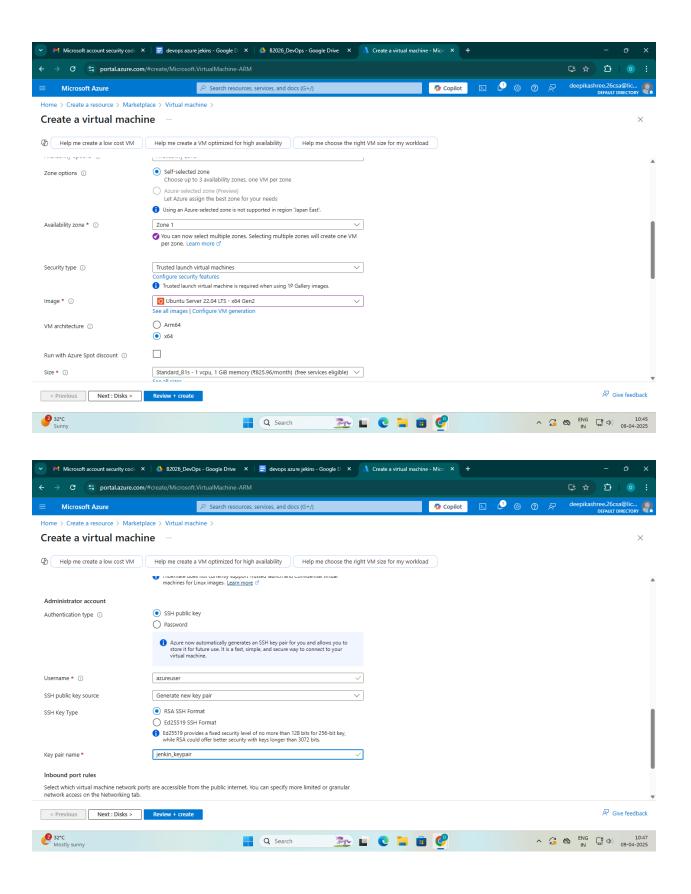
To install and configure Jenkins on Azure Linux VM.

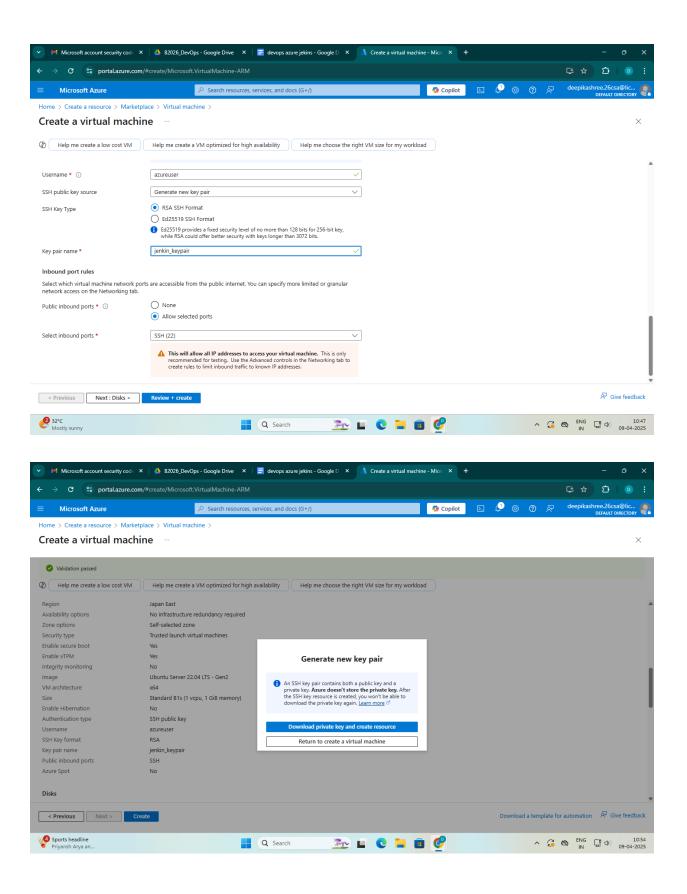
PROCEDURE:

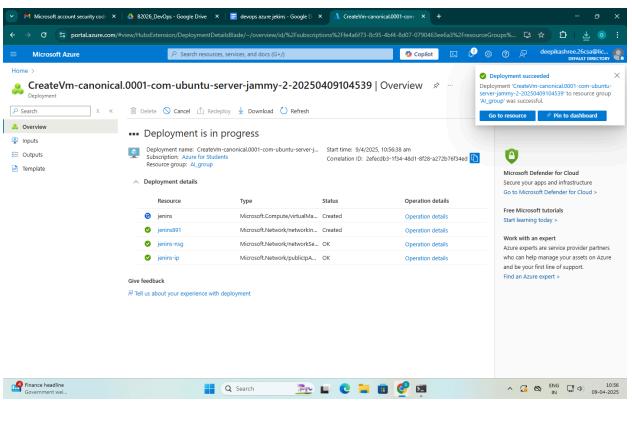
Step 1: To launch a virtual machine (VM) instance on Microsoft Azure, follow these steps:

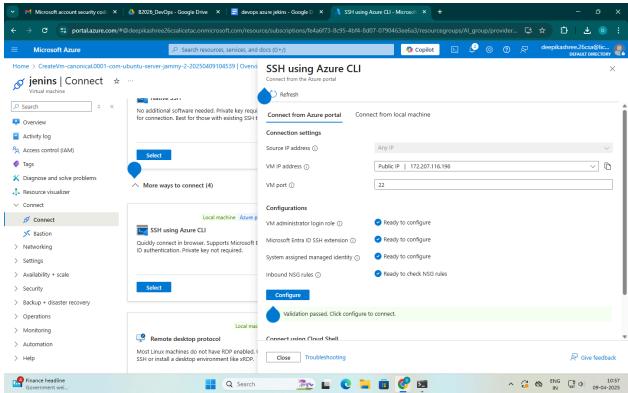
- 1. Sign in to the Azure portal: Go to https://portal.azure.com and sign in with your Azure account.
- 2. Create a new virtual machine:
- 3. In the Azure portal's left-hand menu, click on "Create a resource".
- 4. In the search box, type "Virtual Machine" and press Enter.
- 5. Select "Virtual machine" from the search results.







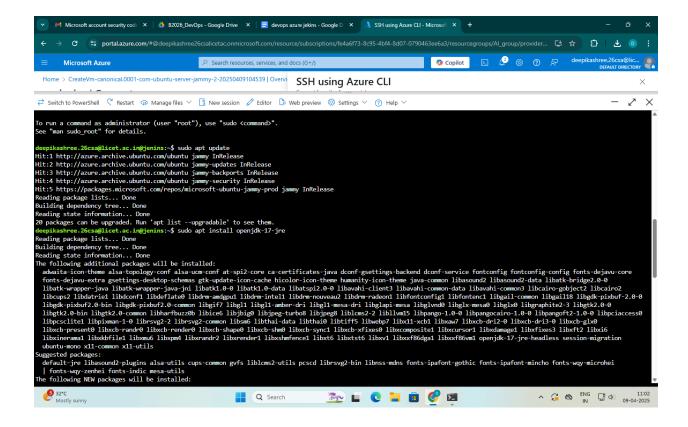


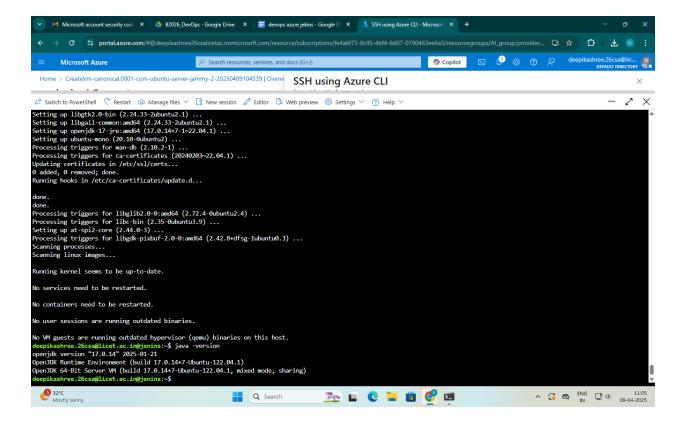


Step 2: Connect to the VM using SSH using Azure CLI and Install Jenkins.

Pre-Requisites: Java (JDK)

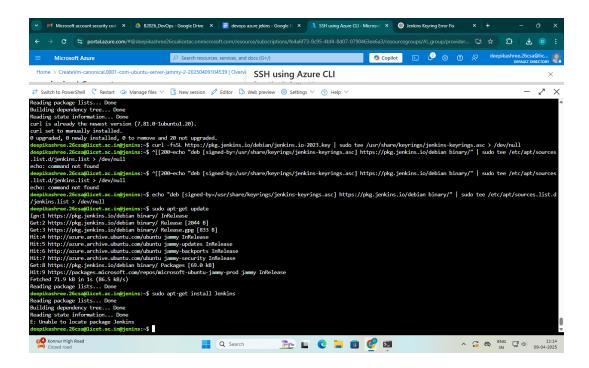
- 1. Run the below commands to install Java and Jenkins
- 2. Install Java
- 3. sudo apt update
- 4. sudo apt install openjdk-17-jre





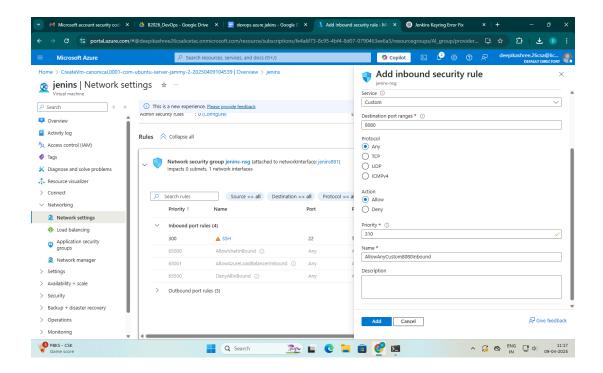
Step 3: Install Jenkins

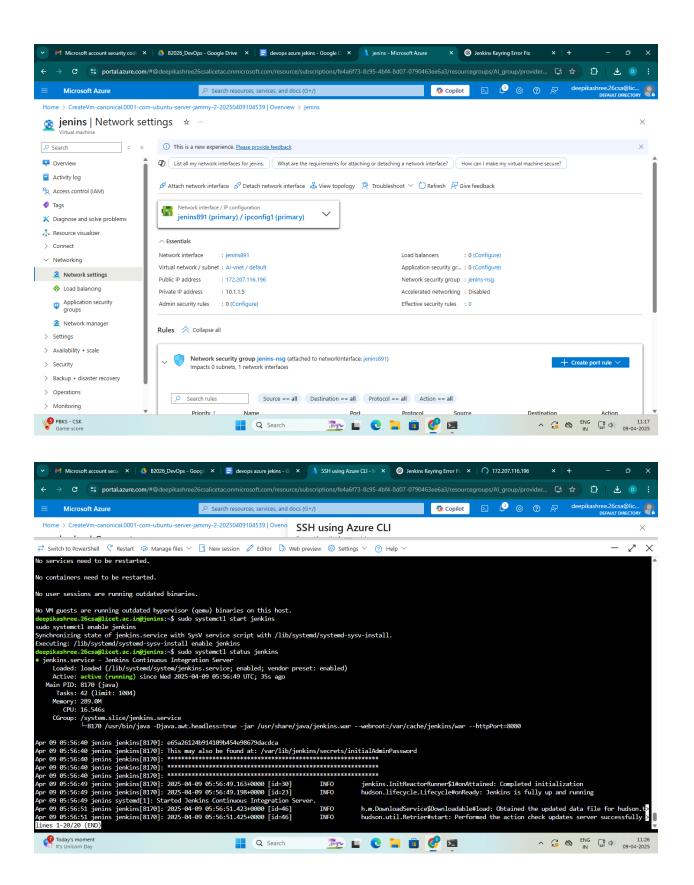
- 1. curl -fsSLhttps://pkg.jenkins.io/debian/jenkins.io-2023.key | sudo tee/usr/share/keyrings/jenkins-keyring.asc >/dev/null
- 2. echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \ https://pkg.jenkins.io/debian binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list > /dev/null
- 3. sudo apt-get update
- 4. sudo apt-get install Jenkins



Step 4: By default, Jenkins will not be accessible to the external world due to the inbound traffic restriction by Azure. Open port 8080 in the inbound traffic rules as shown below.

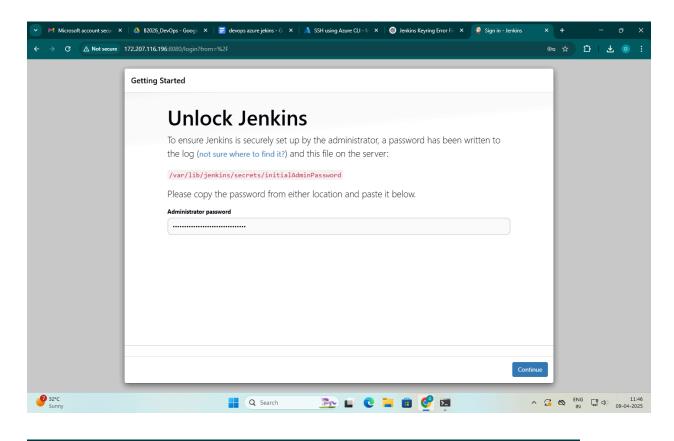
- Add inbound security rule
- Add inbound traffic rules as shown in the image (you can just allow 8080 as well, in my case, I allowed All traffic).

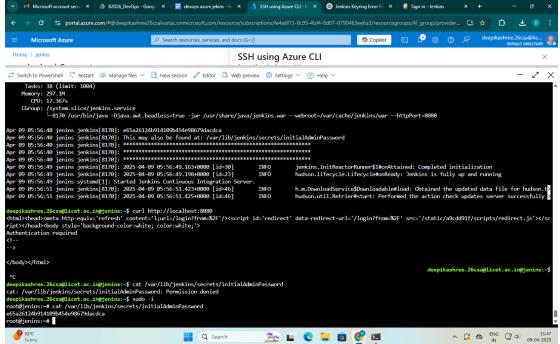


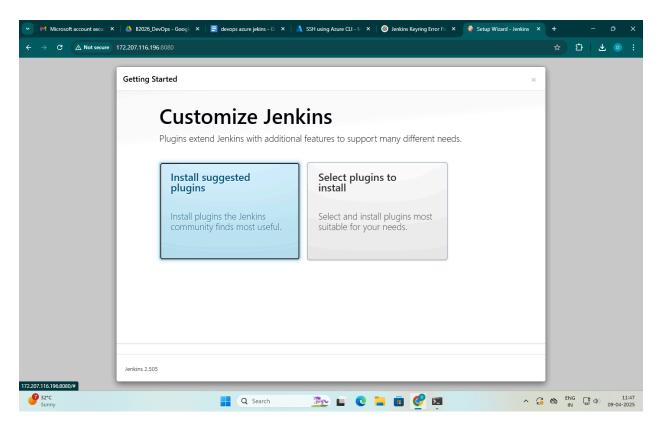


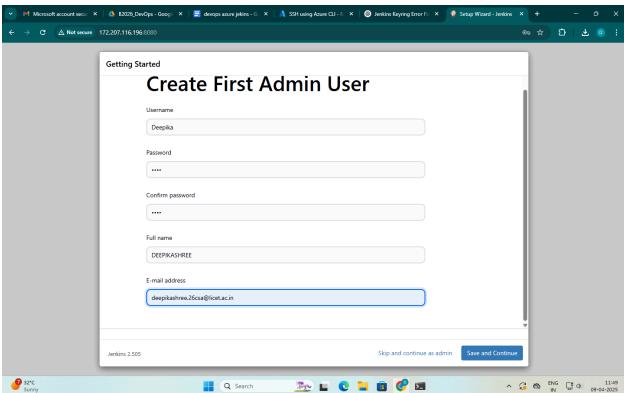
Step 5: Login to Jenkins using the below URL and configure Jenkins

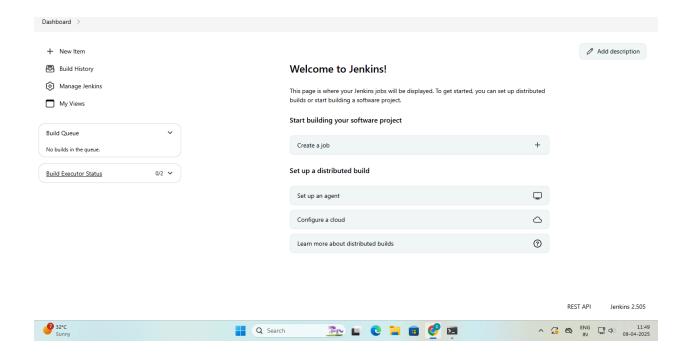
1. http:/VM-public-ip/:8080 [You can get the VM-public-ip-address from your Azure console page]











Result:

Thus to install and configure Jenkins on Azure Linux VM is done.