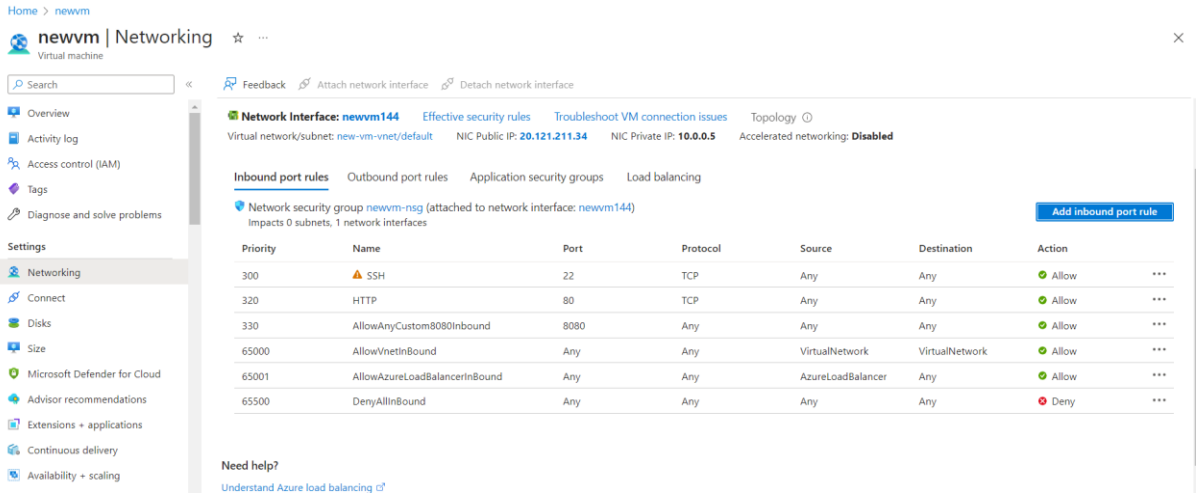
Problem statement
Create a Virtual Machine with the following configurations,

Region: (US) East US
Availability options: No infrastructure redundancy required
Security type: Standard
Image: Ubuntu Server 20.04 LTS - Gen2
Size: Standard_B2ms
Authentication type: SSH public key
SSH public key source: Generate new key pair
OS disk type: Standard HDD
Inbound rule: Allow HTTP and 8080 Port




Install Jenkins on VM
Run Jenkins on 8080 Port
Ensure that you can able to access the default Jenkins landing page from the local machine web browser.

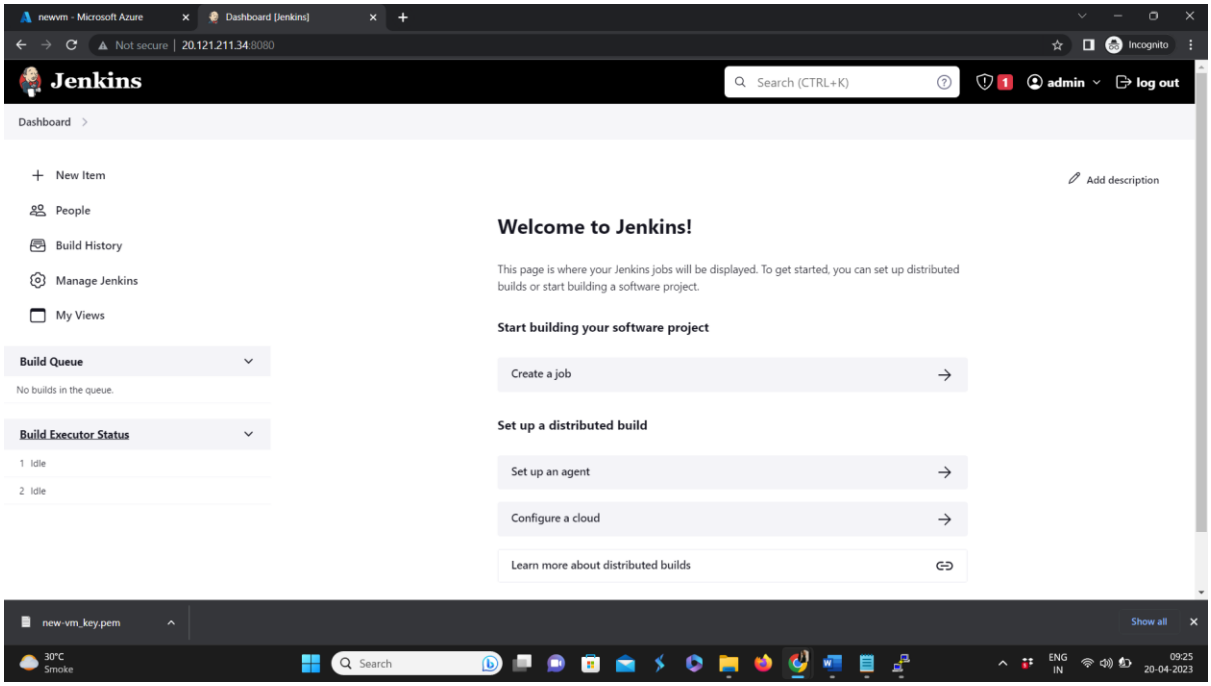
```
appadmin@newvm:~$ history
    1  ls
    2  sudo apt-get update
    3  sudo apt-get install default-jdk
    4  wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add -
    5  sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
    6  sudo apt-get update
    7  sudo apt-get install jenkins
    8  sudo systemctl start jenkins
    9  sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 5BA31D57EF5975CA
   10  sudo apt-get update
   11  sudo apt-get install jenkins
   12  sudo systemctl start jenkins
   13  sudo systemctl status jenkins
   14  history
appadmin@newvm:~$
```

Problem statement contd.
Execute the following job in Jenkins running on the created Virtual Machine:

Login to Jenkins with username as admin and fetch password from the path:

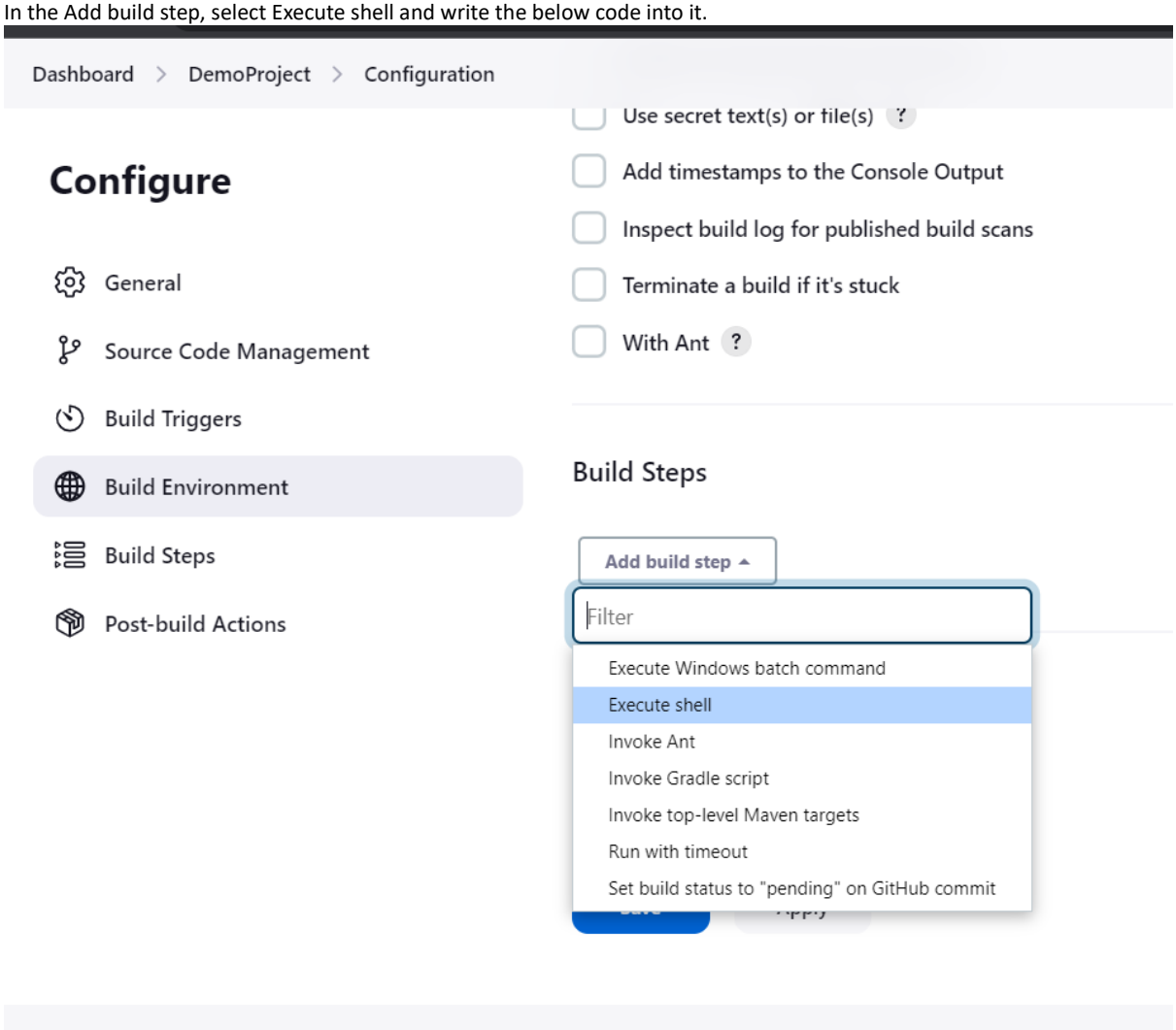
sudo cat /var/lib/jenkins/secrets/initialAdminPassword

Install suggested plugins and Continue as admin user.

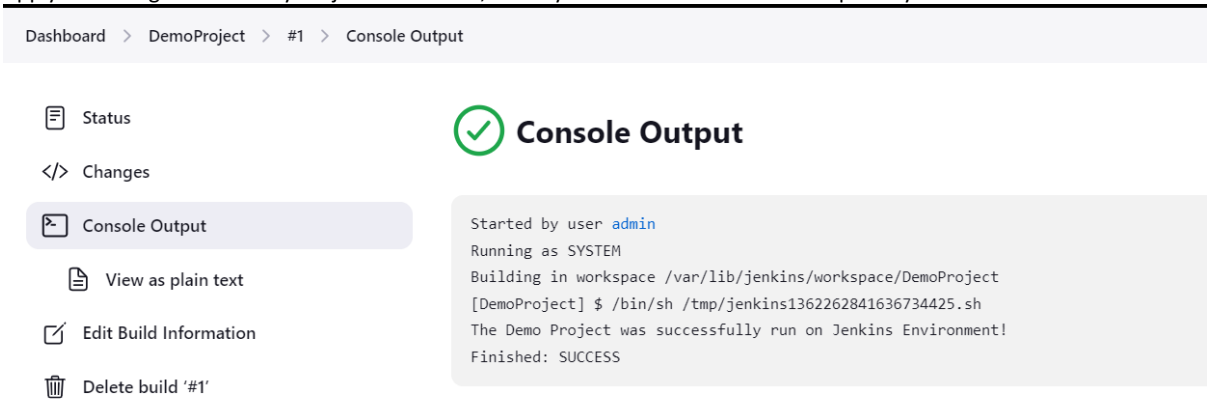



Create a job named DemoProject in Jenkins.

In the Add build step, select Execute shell and write the below code into it.



#!/bin/sh
echo "The Demo Project was successfully run on Jenkins Environment!"
exit 0
Apply the changes and build your job. Once done, check your result in the console output of your build.




Notes
Use the credentials given in the hands-on to log in to the Azure Portal.

Create a new resource group and use the same resource group for all resources.

The Username/Password/Services Name can be as per your choice.

Connect to the VM from the local machine through the SSH connection.

After completing the hands-on, delete all the resources created.