

[Bastion server]{SubTask1}

\$ apt install ansible -y

\$ mkdir -p

ansible/{roles/{common,install_docker},inventory}

\$ ansible-galaxy init roles/common --force

\$ ansible-galaxy init roles/install_docker --force

\$ ansible-playbook -i ../inventory/ install_docker.yml

```
root@ip-172-31-20-163:/home/ubuntu/ansible/playbooks# ansible-playbook -i ../inventory/ install_docker.yml
[WARNING]: Found both group and host with same name: app
[WARNING]: Found both group and host with same name: jenkins
[WARNING]: Found both group and host with same name: bastion

PLAY [Install Docker] *****

TASK [Gathering Facts] *****
ok: [jenkins]
ok: [app]

TASK [Update APT package index] *****
changed: [app]
changed: [jenkins]

TASK [Install Docker dependencies] *****
ok: [app]
ok: [jenkins]

TASK [Add Docker GPG key] *****
ok: [app]
ok: [jenkins]

TASK [Add Docker repository] *****
changed: [app]
changed: [jenkins]

TASK [Install Docker] *****
changed: [jenkins]
changed: [app]

TASK [Start Docker service] *****
ok: [app]
ok: [jenkins]

PLAY RECAP *****
app                : ok=7    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
jenkins            : ok=7    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ip-172-31-20-163:/home/ubuntu/ansible/playbooks#
```

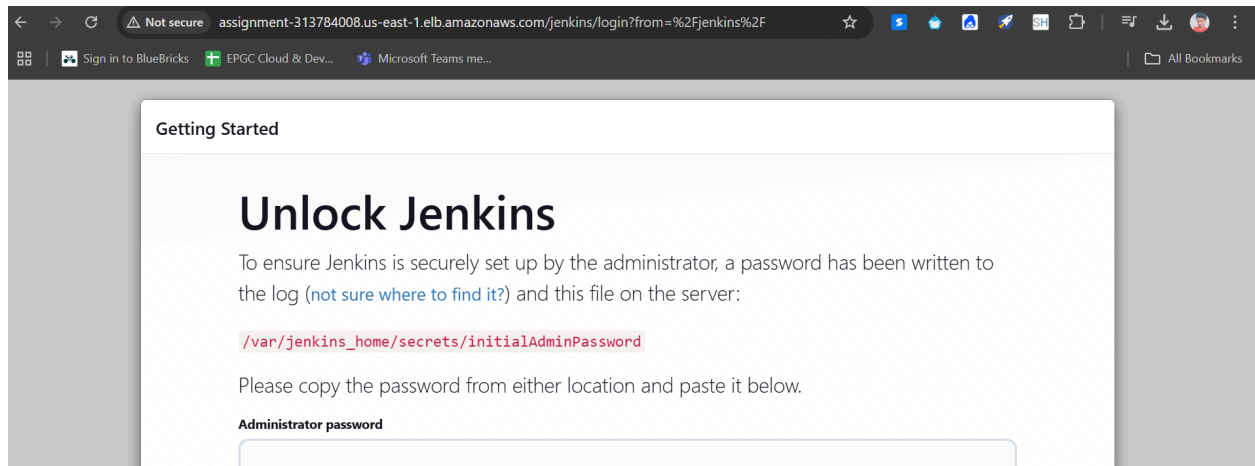
[Jenkins Server]{SubTask2}

\$ docker run -itd -p 8080:8080 --env

JENKINS_OPTS="--prefix=/jenkins" jenkins/jenkins:its

```
root@ip-172-31-29-108:/home/ubuntu# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
48a6be5271b9   e699ac6c40dc  "/usr/bin/tini -- /u..."  17 minutes ago Up 17 minutes  0.0.0.0:8080->8080/tcp, :::8080->8080/tcp, 50000/tcp  gallant_fermat
root@ip-172-31-29-108:/home/ubuntu#
```

[ALB]{SubTask3}



The screenshot shows a web browser window with the address bar displaying "assignment-313784008.us-east-1.elb.amazonaws.com/jenkins/login?from=%2Fjenkins%2F". The page content is titled "Getting Started" and features a large heading "Unlock Jenkins". Below the heading, a paragraph explains that a password has been written to the log (with a link "not sure where to find it?") and to a file on the server. The file path is shown in a red monospace font: `/var/jenkins_home/secrets/initialAdminPassword`. A subsequent instruction asks the user to copy the password and paste it into a field labeled "Administrator password".

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

```
/var/jenkins_home/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password