

ANSIBLE PLAYBOOK FOR JENKINS DOWNLOAD AND PORT NO. CHANGING

Playbook:

- hosts: all

remote_user: ec2-user

become: yes

vars:

ports: 9393

tasks:

- name: Download jenkins

get_url:

url: <https://pkg.jenkins.io/redhat-stable/jenkins.repo>

dest: /etc/yum.repos.d/jenkins.repo

- name: jenkins key

ansible.builtin.rpm_key:

state: present

key: <https://pkg.jenkins.io/redhat-stable/jenkins.io.key>

- name: Install java and jenkins

yum:

name: "{{ item }}"

state: latest

loop:

- java

- jenkins

- name: changing jenkins port no

lineinfile:

path: /usr/lib/systemd/system/jenkins.service

regexp: '^Environment="JENKINS_PORT=8080"'

line: Environment="JENKINS_PORT={{ports}}"

notify: restart jenkins

- name: daemon-reload to pick up config changes

ansible.builtin.systemd:

daemon_reload: yes

- name: Start jenkins

ansible.builtin.systemd:

name: jenkins

state: started

handlers:

- name: restart jenkins

service:

name: jenkins

state: restarted

Ansible installation:

Here Amazon Linux 2 server OS has been used, to install ansible in Amazon Linux 2 ,

```
sudo yum install python3-pip
pip3 install ansible
```

Create the inventory file:

Create a separate inventory file to specify the host the ansible will manage. Save this file in .ini extension. It will contain the domain name or IP address of the hosts.

```
TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.44.241 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter
could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.44.241]

TASK [Download jenkins] *****
ok: [172.31.44.241]

TASK [jenkins key] *****
ok: [172.31.44.241]

TASK [yum update] *****
ok: [172.31.44.241]

TASK [Install java and jenkins] *****
ok: [172.31.44.241] => (item=java)
ok: [172.31.44.241] => (item=jenkins)

TASK [changing jenkins port no] *****
changed: [172.31.44.241]

TASK [daemon-reload to pick up config changes] *****
ok: [172.31.44.241]

TASK [Start jenkins] *****
ok: [172.31.44.241]

RUNNING HANDLER [restart jenkins] *****
changed: [172.31.44.241]

PLAY RECAP *****
172.31.44.241      : ok=9   changed=2   unreachable=0   failed=0   skipped=0   rescued=0   ignored=0
```

```
ec2-user@ip-172-31-44-241:~  
# Port to listen on for HTTP requests. Set to -1 to disable.  
# To be able to listen on privileged ports (port numbers less than 1024),  
# add the CAP_NET_BIND_SERVICE capability to the AmbientCapabilities  
# directive below.  
Environment="JENKINS_PORT=9393" portchanging in  
slave  
# IP address to listen on for HTTPS requests. Default is disabled.  
#Environment="JENKINS_HTTPS_LISTEN_ADDRESS="
```

```
# Port to listen on for HTTPS requests. Default is disabled.  
# To be able to listen on privileged ports (port numbers less than 1024),  
# add the CAP_NET_BIND_SERVICE capability to the AmbientCapabilities  
# directive below.  
#Environment="JENKINS_HTTPS_PORT=443"
```

```
# Path to the keystore in JKS format (as created by the JOK's keytool).  
# Default is disabled.  
#Environment="JENKINS_HTTPS_KEYSTORE=/path/to/keystore.jks"
```

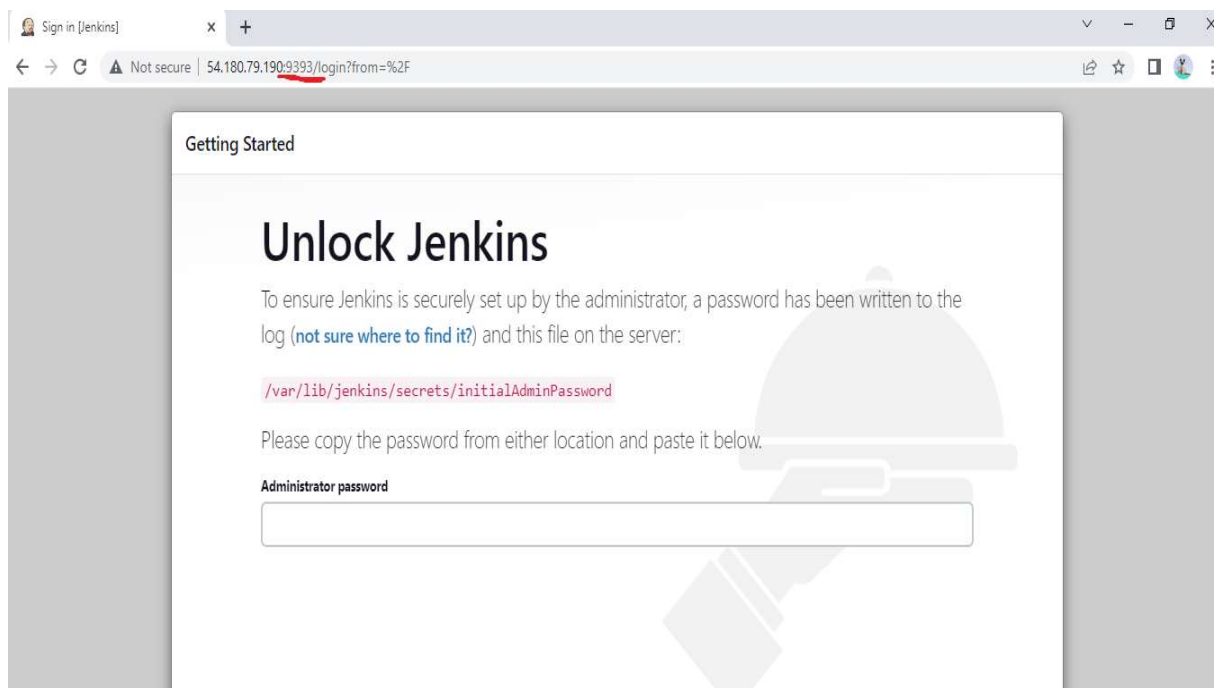
```
# Password to access the keystore defined in JENKINS_HTTPS_KEYSTORE.  
# Default is disabled.  
#Environment="JENKINS_HTTPS_KEYSTORE_PASSWORD=s3cR3tPa55w0rd"
```

```
# IP address to listen on for HTTP2 requests. Default is disabled.  
#Environment="JENKINS_HTTP2_LISTEN_ADDRESS="
```

```
# HTTP2 port to listen on. Default is disabled.  
# To be able to listen on privileged ports (port numbers less than 1024),  
"/usr/lib/systemd/system/jenkins.service" [readonly] 151L, 5665B
```

76,1 50%

Port changed in host



Accessing Jenkins via changed port