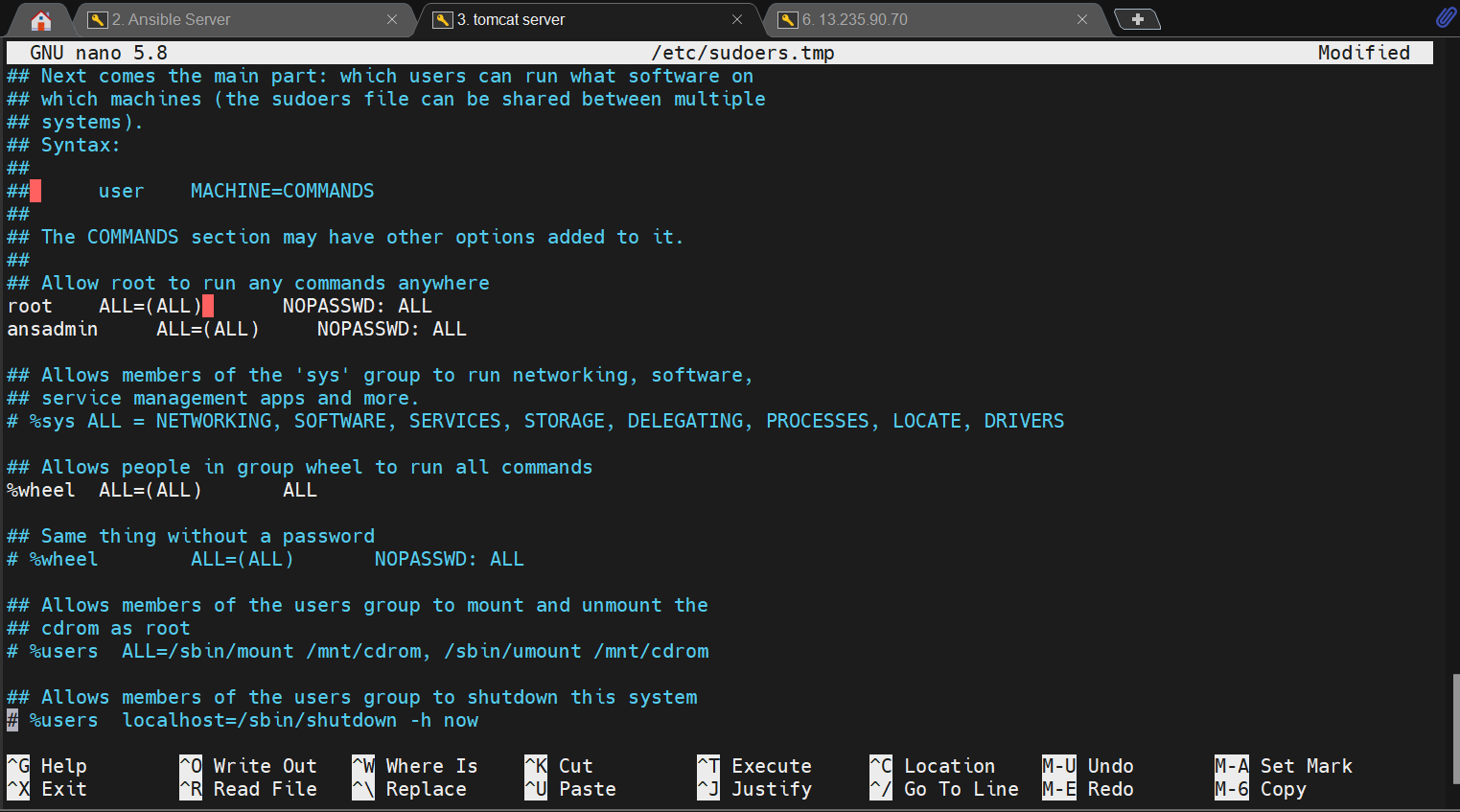
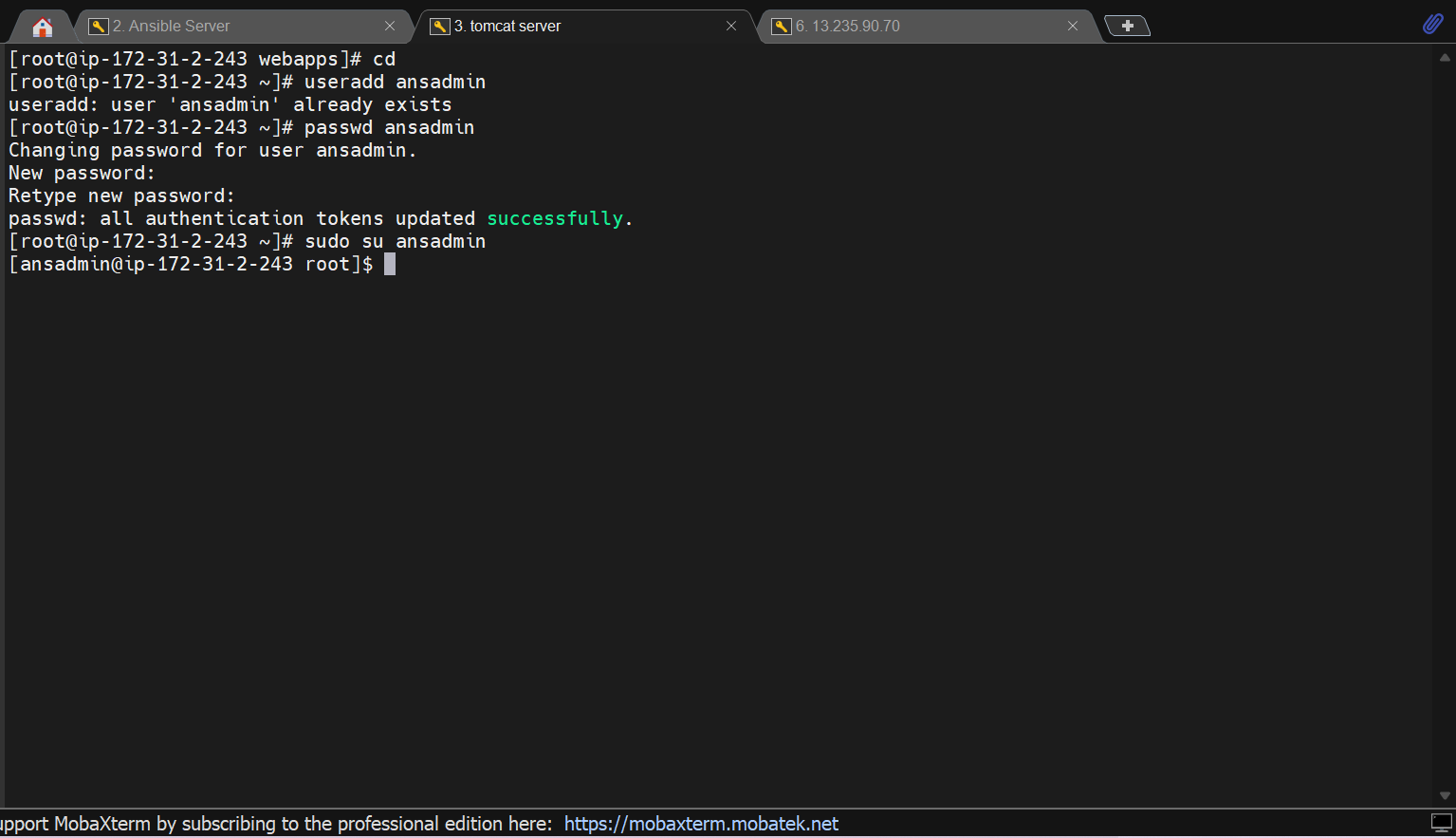
CI/CD pipeline using GIT, Jenkins & Ansible Using AWS EC2 Service.

Step:1 First we create a two ec2 instances and named as ansible server and ansible client. Create a user and enable the password-less authentication in between the ansible-server and ansible client.

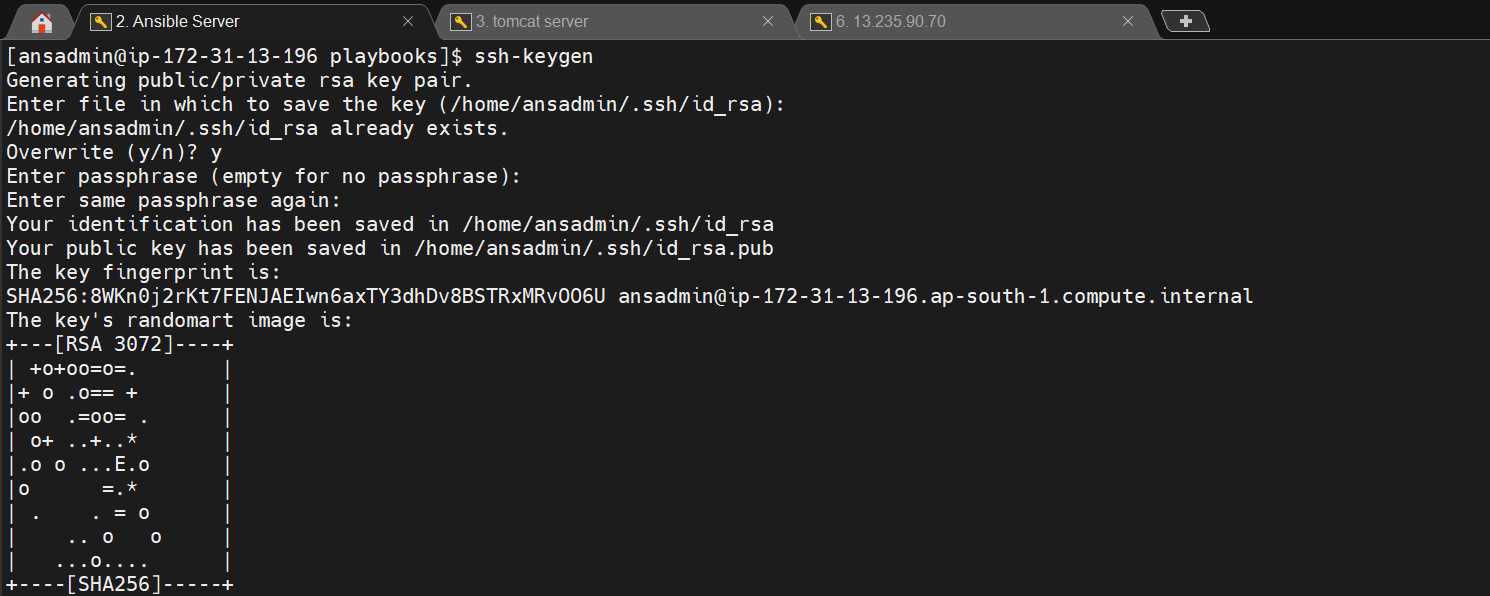
* Login to both servers. and create one user in both the servers and change permission in visudo file for password-less authentication in both servers.



* Add the ansadmin in the both servers (Ansible server & tomcat server)



* Login to created user and generate a keypair with (**ssh-keygen** command)
* ssh-keygen.



* Copy key to target servers: “ssh-copy-id <private-ip-address>” #ip address of tomcat server(ansible client).
* You can check connection setup or not by : ssh <private-ip-address>
* Add tomcat server as hosts in ansible:

#Sudo vi /etc/ansible/host

[all\_hosts]

<private-ip-address> of tomcat server(client)

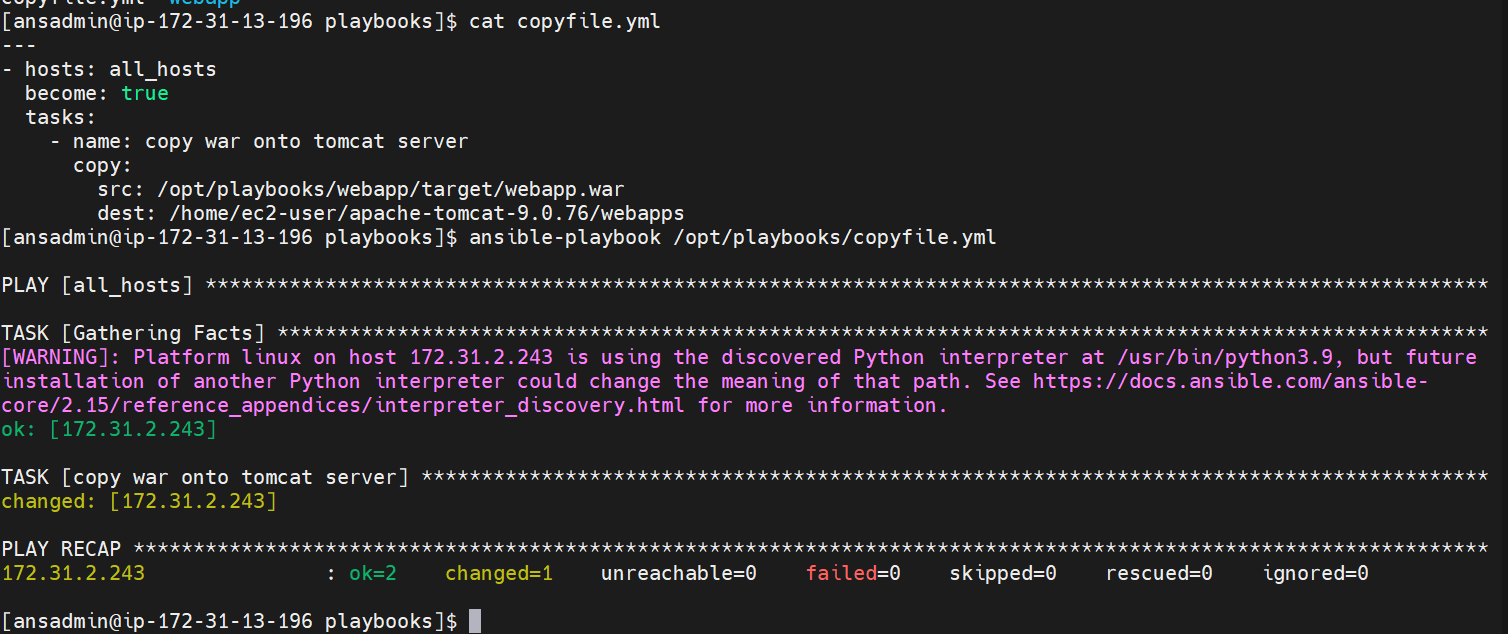
* Ping to check host available or not:

Ansible all –m ping

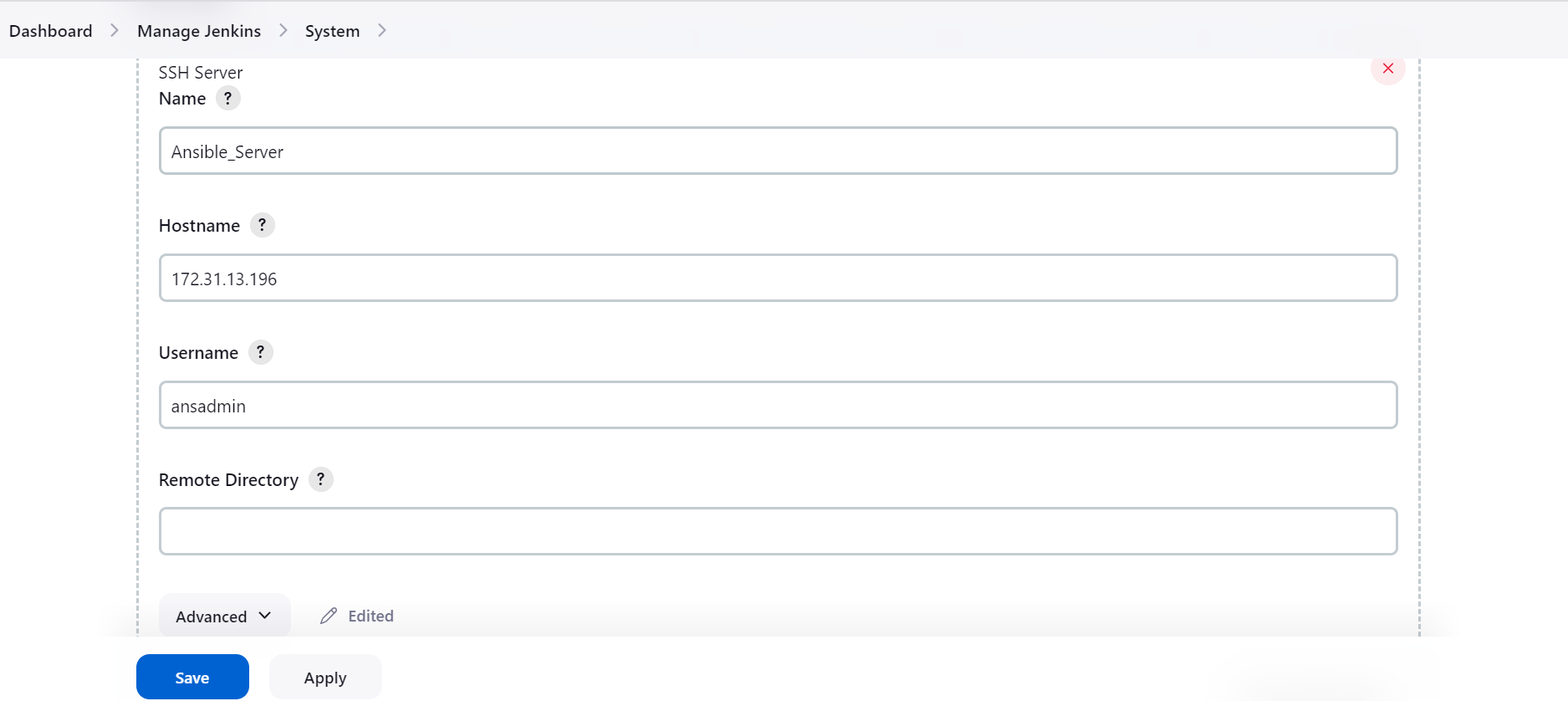
* Create “copyfile.yml” playbook inside /opt/playbooks/.

And check the yml file it is running or not.

* We need to create a playbook for transferring a file from the ansible server to the ansible client(tomcat server).



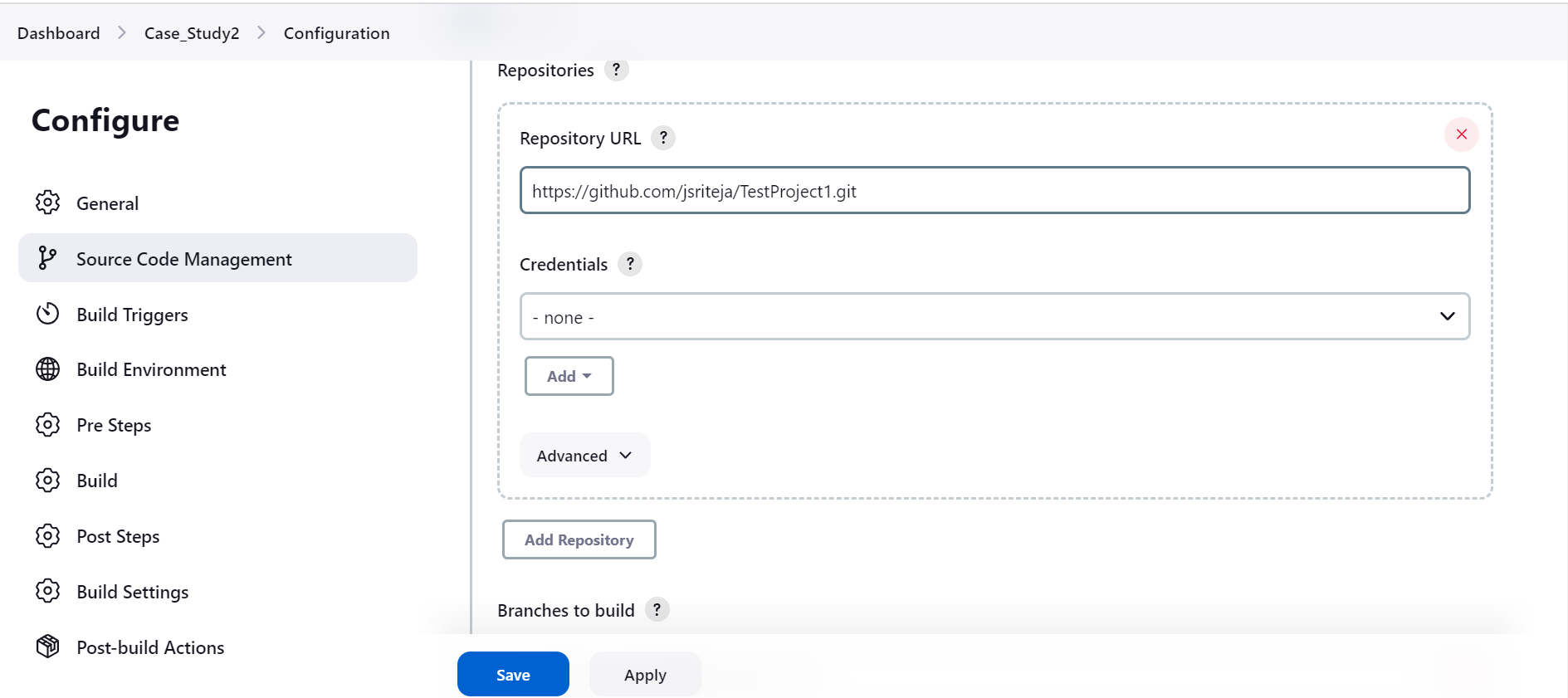
* Go to Jenkins server.
* Install “publish over ssh” plugin.
* Enable connection between Ansible and Jenkins.
* Manage Jenkins > Configure System > Publish Over SSH > SSH Servers
  + SSH Servers:
    - Hostname:< private-ip-address>
    - username: ansadmin
    - password: \*\*\*\*\*\*\*



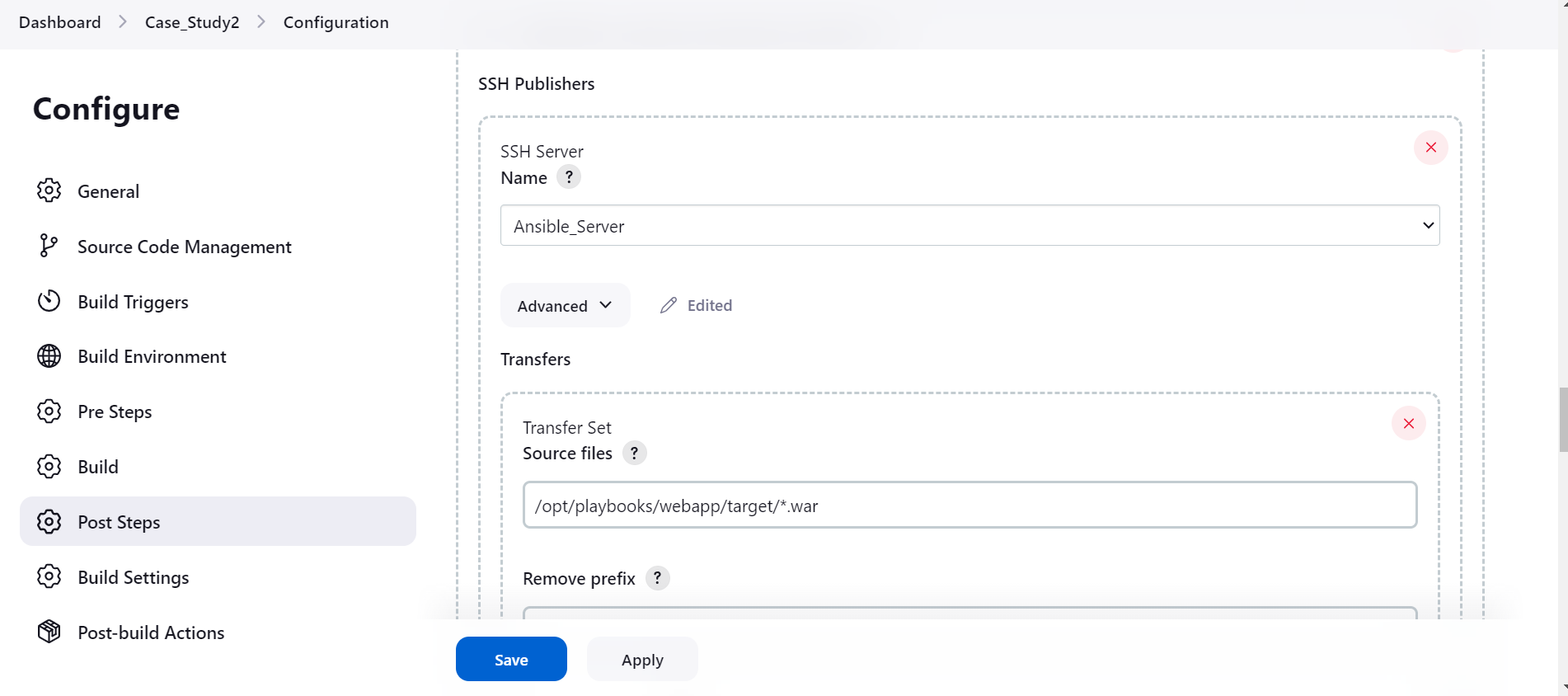
* Make a new maven project like Case-Study2:

Create a Jenkins Job, Fill in the following details,

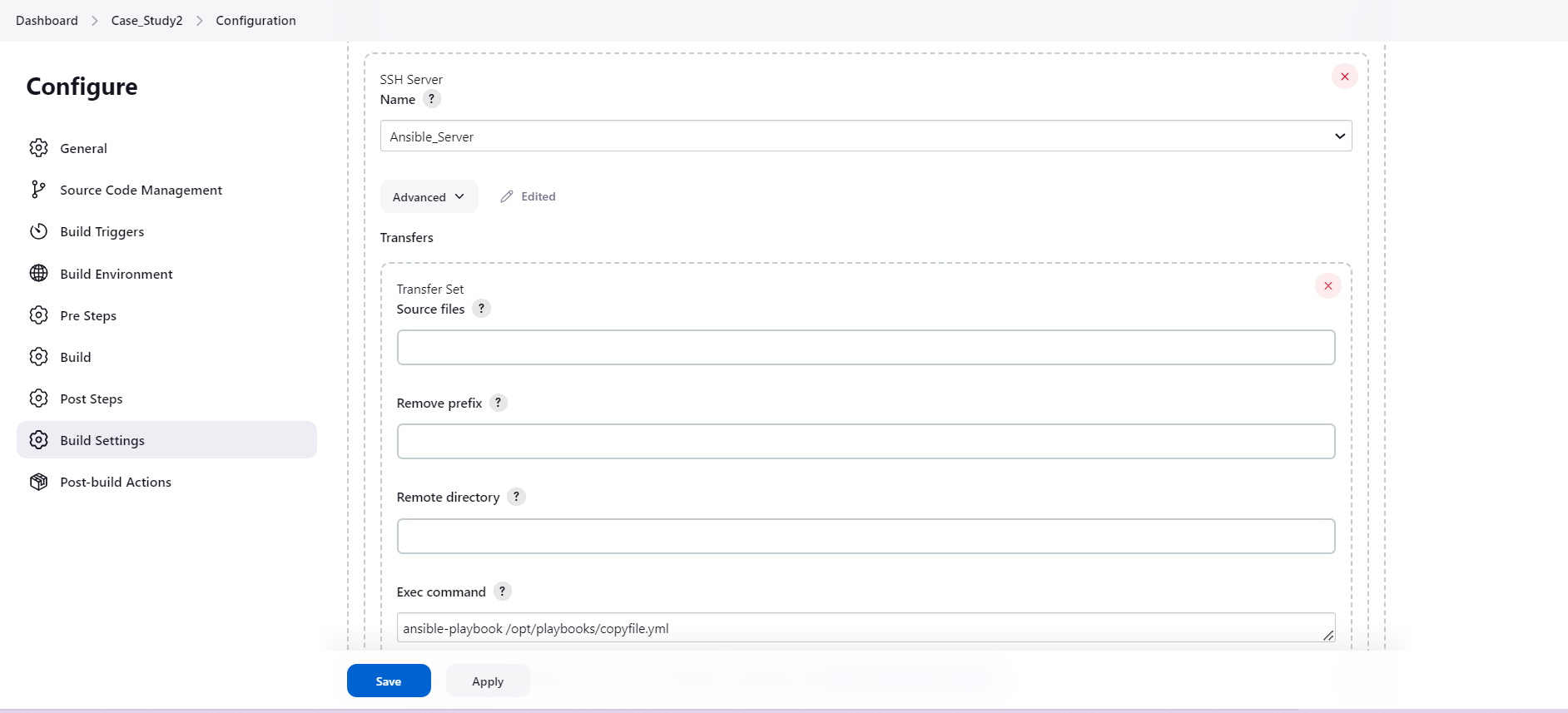
* Source Code Management:
  + Repository: <https://github.com/jsriteja/TestProject1.git>
  + Branches to build : \*/master



* Add post-build steps
  + Send files or execute commands over SSH
    - SSH Server : ansible
    - Source files: webapp/target/\*.war
    - Remote directory: //opt//playbooks

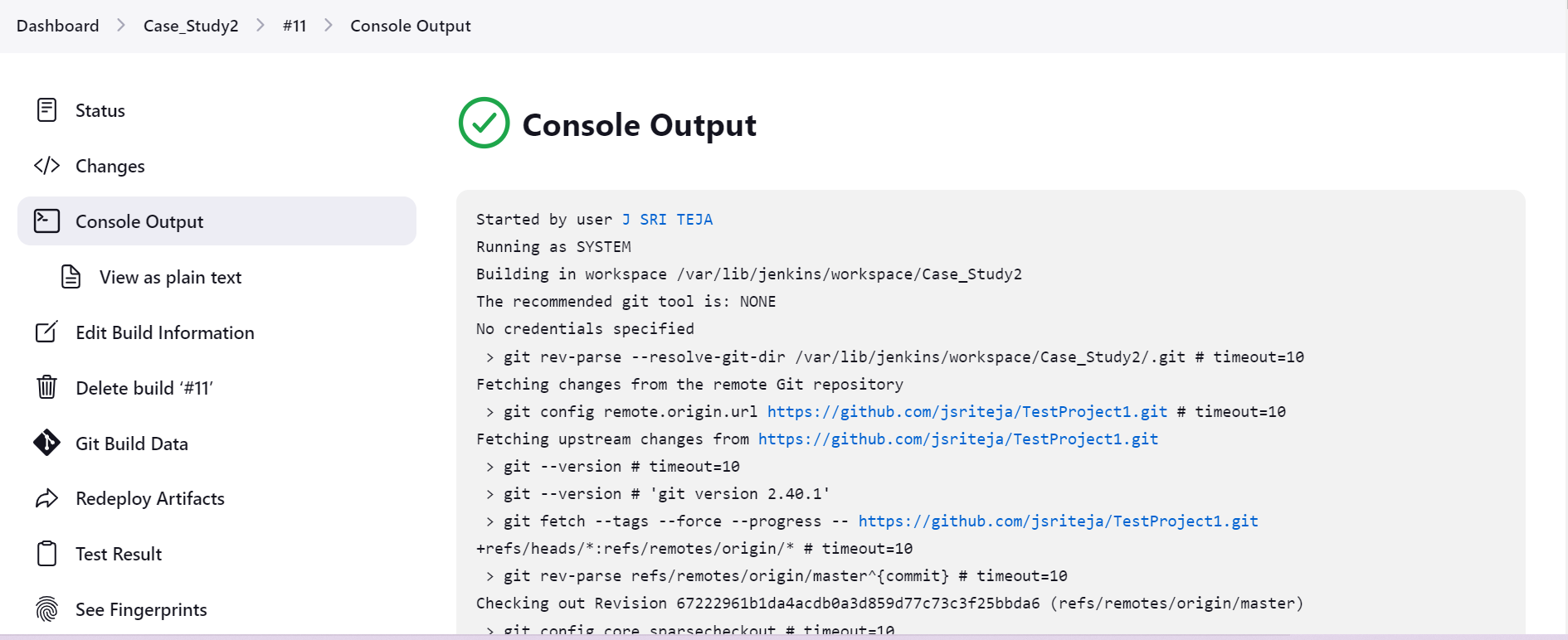


* Add post-build steps
  + Send files or execute commands over ssh
    - SSH Server : Ansible\_Server
    - Exec command **ansible-playbook /opt/playbooks/copyfile.yml**

ansible\_server

🡪Build the ansible\_project

* You can access the Tomcat server in web browser :





🡪final we will access the webapp.war file in tomcat server by using the

http://<public-ip-address>:8080/webapp/

