DevOps Project -02

Prerequisites:

- 1. Ansible server
- 2. Jenkins Server
- 3. Tomcat Server

Objective:

Build will happen through Jenkins and deployment through ansible on tomcat server.

Steps:

- 1. Developers will commit the changes to the code using git on github account
- 2. Jenkins will build and test the project for every commit made by developers and create distributable jar or war file.
- 3. Finally, ansible will deploy war file on tomcat server residing on ec2 instance.

Project Workflow:



Part-01 Integration Steps

Install "publish Over SSH"

• Manage Jenkins > Manage Plugins > Available > Publish over SSH

Enable connection between Ansible and Jenkins

- Manage Jenkins > Configure System > Publish Over SSH > SSH Servers
 - SSH Servers:
 - Hostname:<ServerIP>
 - username: ansadm
 - password: ******

Test the connection "Test Connection"

Part-02 - Execute job to connect

create a copywarfile.yml on Ansible under /opt/playbooks

Add tomcat server details to /etc/ansible/hosts (if you are using other hosts file update server info there)

```
echo "<server_IP>" >> /etc/ansible/hosts
```

Create Jenkins job, Fill the following details,

- Source Code Management:
 - Repository: https://github.com/ValaxyTech/hello-world.git
 - o Branches to build: */master
- Build:
 - Root POM:pom.xml
 - Goals and options: clean install package

- Add post-build steps
 - Send files or execute commands over SSH
 - SSH Server: ansible_server
 - Source fiels: webapp/target/*.war
 - Remote directory: //opt//playbooks
- Add post-build steps
 - o Send files or execute commands over ssH
 - SSH Server: ansible_server
 - Exec command ansible-playbook /opt/playbooks/copywarfile.yml

Execute job and you should be able to seen build has been deployed on Tomcat server.