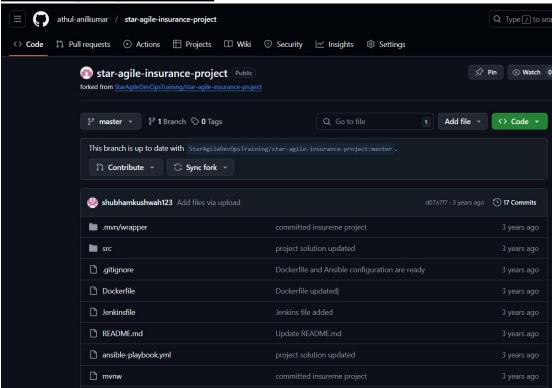
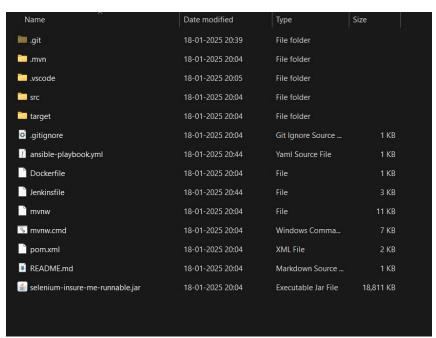
INSURANCE CAPSTONE PROJECT

Creating Repositories



Forked the required files from Staragile git repo to my repo



Created a local repo from github

Creating Jenkins File

Created a jenkins file with all the necessary steps.

☐ Jenkinsfile jenkins file updated 2 minutes ago

Uploaded updated file to remote repo.

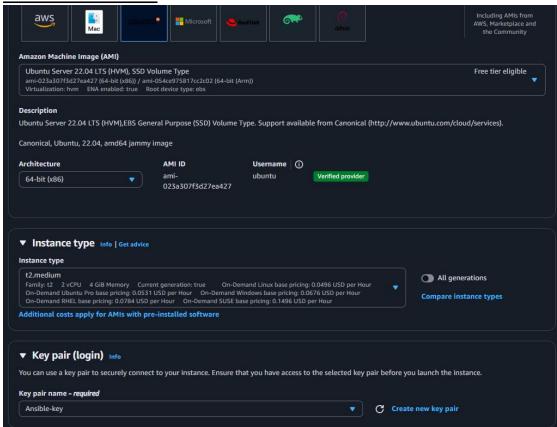
Creation of ansible playbook

Created an ansible playbook to deploy to Prod servers.

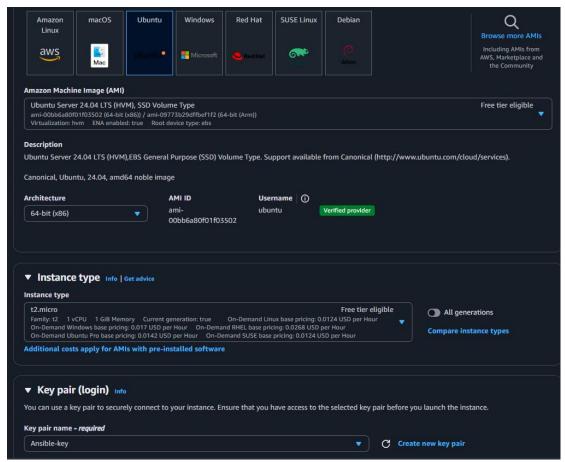
ansible playbook updated 1 minute ago

Commited the playbook to remote repo.

Server Creation



Created a server named Jenkins server To implement CI/CD setup



Created another server to deploy the packaged docker image into using ansible

Jenkins Server Setup

```
ubuntu@ip-172-31-40-89:~$ jenkins --version
ubuntu@ip-172-31-40-89:~$ ansible --version
  buntu@ip-172-31-40-89:~$ ansible --version
msible [core 2.17.7]
config file = /etc/ansible/ansible.cfg
configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
ansible python module location = /usr/lib/python3/dist-packages/ansible
ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections
executable location = /usr/bin/ansible
python version = 3.10.12 (main, Nov 6 2024, 20:22:13) [GCC 11.4.0] (/usr/bin/python3)
jinja version = 3.0.3
libyaml = True
```

Installed Jenkins and ansible.

ubuntu@ip-172-31-40-89:~\$ docker --version Docker version 27.5.0, build a187fa5

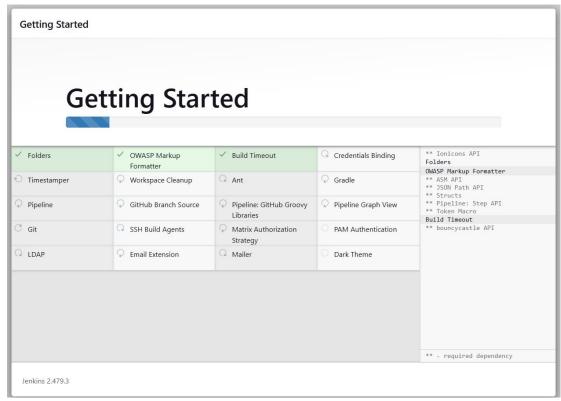
Installed Docker

Ansible Setup

```
# This is the default ansible 'hosts' file.
# It should live in /etc/ansible/hosts
   - Comments begin with the '#' character
   - Blank lines are ignored
   - Groups of hosts are delimited by [header] elements
   - You can enter hostnames or ip addresses
  - A hostname/ip can be a member of multiple groups
[Prod-server]
43.204.140.59
# Ex 1: Ungrouped hosts, specify before any group headers:
## green.example.com
## blue.example.com
## 192.168.100.1
## 192.168.100.10
# Ex 2: A collection of hosts belonging to the 'webservers' group:
## [webservers]
## alpha.example.org
## beta.example.org
## 192.168.1.100
## 192.168.1.110
# If you have multiple hosts following a pattern, you can specify
# them like this:
"hosts" 55L, 1202B
```

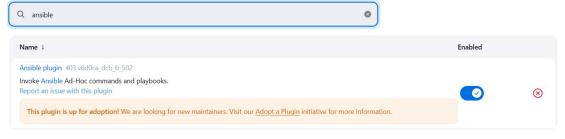
Edited ansible hosts file to include Deployment server

Jenkins Setup

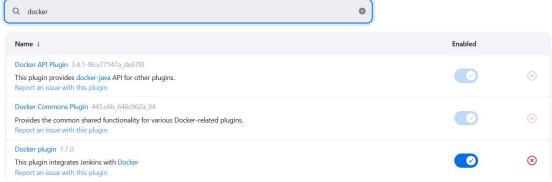


Logged in and setup jenkins

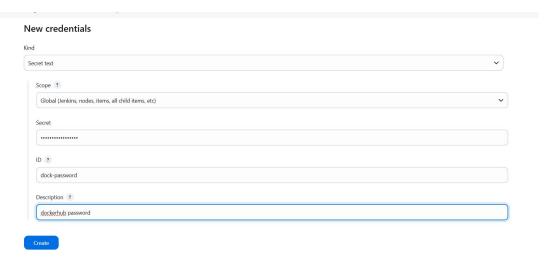
Added credentials for dockerhub



Installed ansible plugin for jenkins

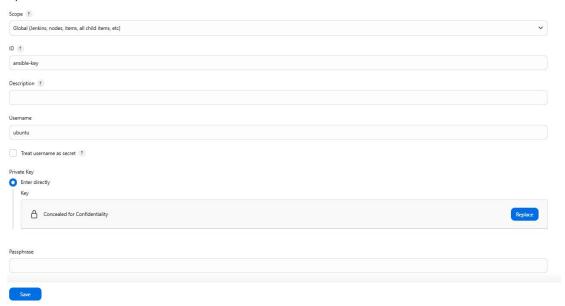


Installed docker plugin for jenkins



Added dockerhub credentials

Update credentials



Added Key to access deployment server

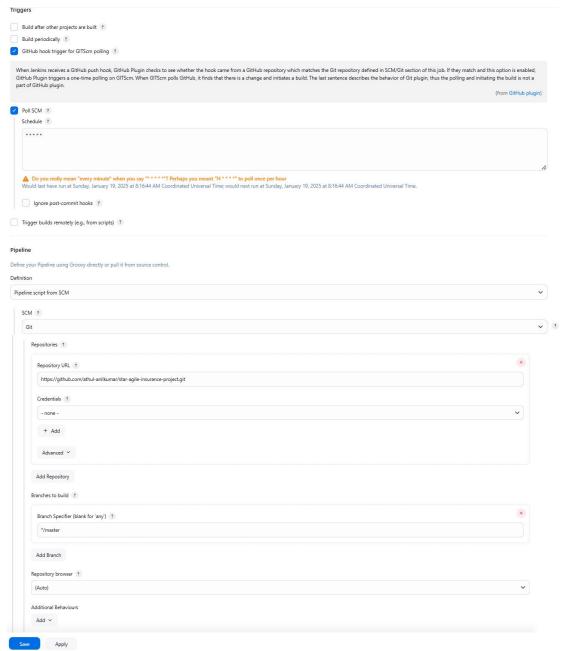
New Item



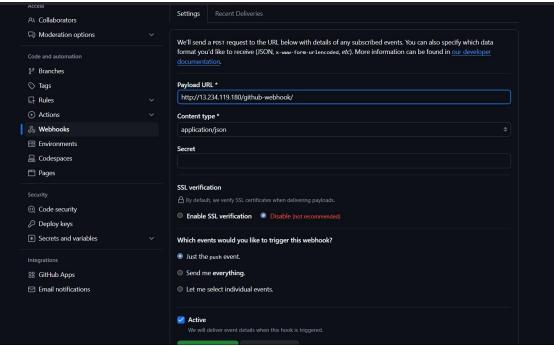
Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

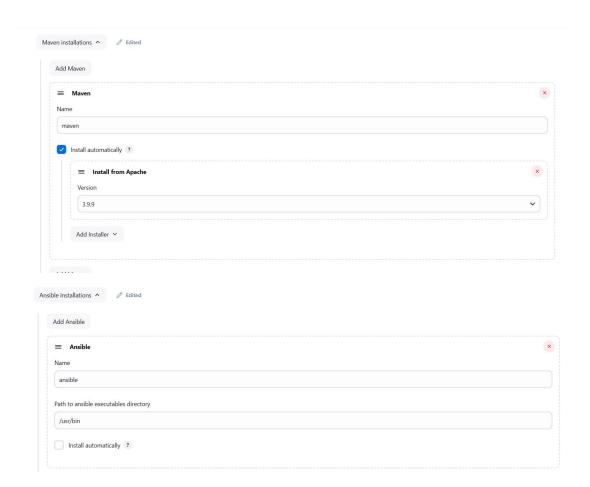




Created new pipeline job called insurance

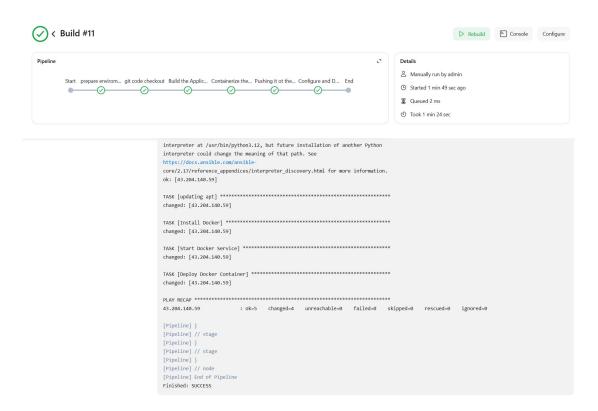


Setup github webhook





Configured Docker maven and ansible installations.



Build complete

