Implementing DevOps Lifecycle for Abode Software

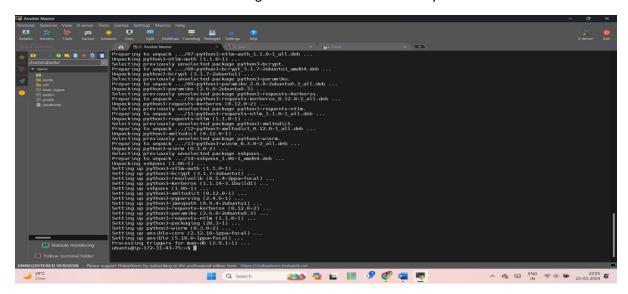
Deploying the product using Jenkins Pipelines, Docker, and GitHub to automate build, test, and deployment processes for a scalable

and secure infrastructure. The containerized code is built on every push to GitHub, ensuring consistency and reliability. The

deployment is managed through a streamlined CI/CD pipeline to enhance productivity and reduce manual errors.

Solution:

Installed 3 servers and connection among those was done with SSH key Gen method



Created a playbook to install all the required packages

```
# Here's another example of host ranges, this time there are no
# leading 0s:
## db-[99:101]-node.example.com
ubuntu@ip-172-31-43-75:/etc/ansible$ sudo nano hosts
ubuntu@ip-172-31-43-75:/etc/ansible$ ansible-playbook software_install.yaml
changed: [localhost]
changed: [54.83.160.152]
changed: [18.215.234.118]
: ok=2 changed=1 unreachable=0 failed=0 skipped=0
: ok=2 changed=1 unreachable=0 failed=0 skipped=0
: ok=2 changed=1 unreachable=0 failed=0 skipped=0
18.215.234.118
54.83.160.152
                                             rescued=0
                                             rescued=0
localhost
                                             rescued=0
```

On Ansible manchine

On Test

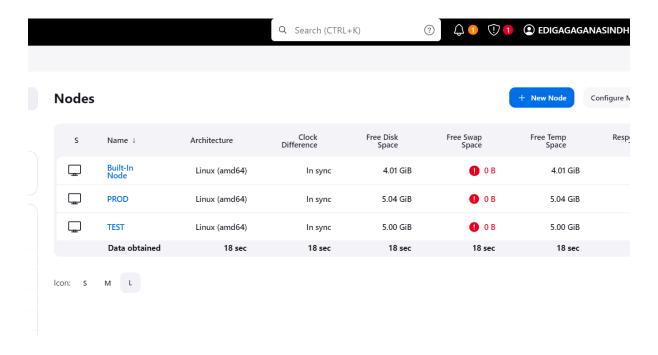
```
ubuntu@ip-172-31-46-151:~/.ssh$ java --version

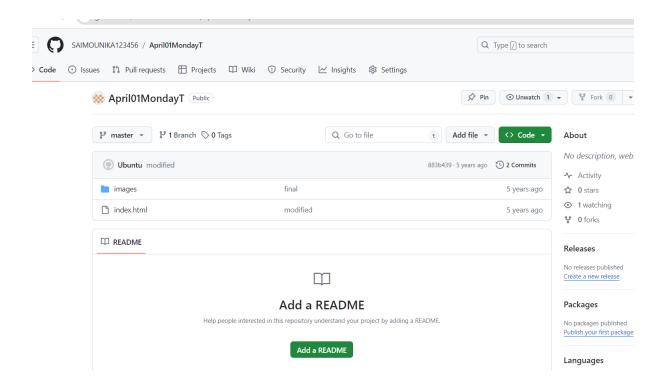
Command 'java' not found, but can be installed with:

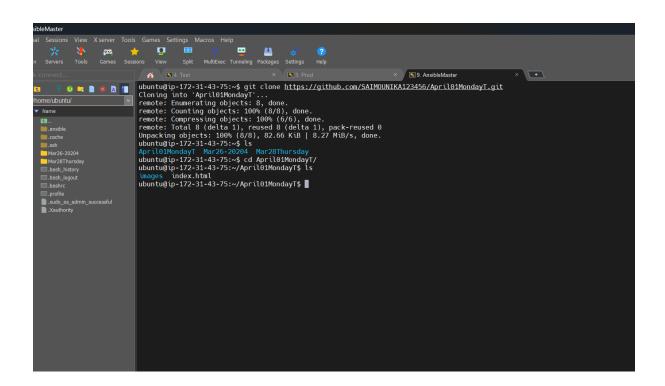
sudo apt install openjdk-11-jre-headless # version 11.0.20.1+1-0ubuntu1~20.04, or sudo apt install openjdk-13-jre-headless # version 13.0.7+5-0ubuntu1~20.04 sudo apt install openjdk-16-jre-headless # version 16.0.1+9-1~20.04 sudo apt install openjdk-17-jre-headless # version 16.0.1+9-1~20.04 sudo apt install openjdk-17-jre-headless # version 17.0.8.1+1~us1-0ubuntu1~20.04 sudo apt install openjdk-8-jre-headless # version 17.0.8.1+1~us1-0ubuntu1~20.04 sudo apt install openjdk-8-jre-headless # version 8u382-ga-1~20.04.1

ubuntu@ip-172-31-46-151:~/.ssh$ java --version openjdk 11.0.22 2024-01-16
OpenJDK Runtime Environment (build 11.0.22+7-post-Ubuntu-0ubuntu220.04.1)
OpenJDK 64-Bit Server VM (build 11.0.22+7-post-Ubuntu-0ubuntu220.04.1, mixed mode, sharing)
ubuntu@ip-172-31-46-151:~/.ssh$ docker --version
Docker version 24.0.5, build 24.0.5-0ubuntu1~20.04.1
ubuntu@ip-172-31-46-151:~/.ssh$
```

On Prod



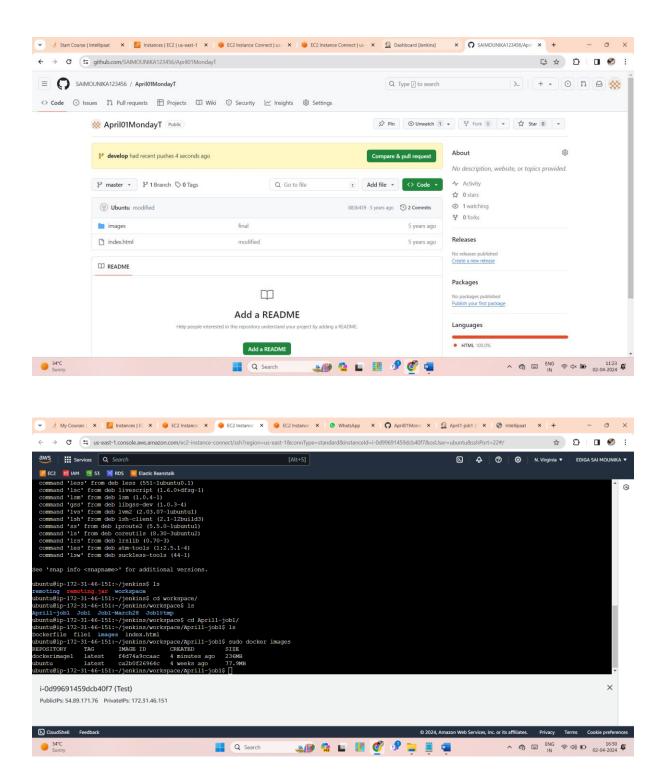




April 01MondayT

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

Successfully pushed develop branch and able to see changes there,





Pushed master branch because we don't have Dockerfile in it #in same test node only

