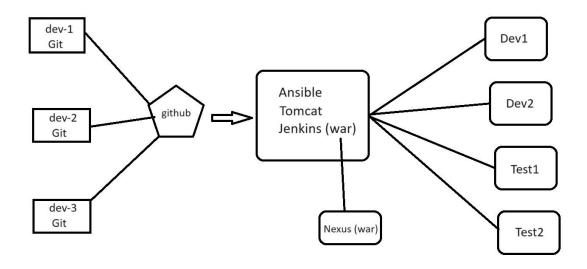
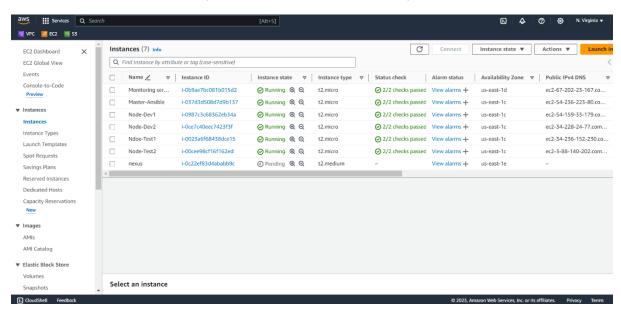
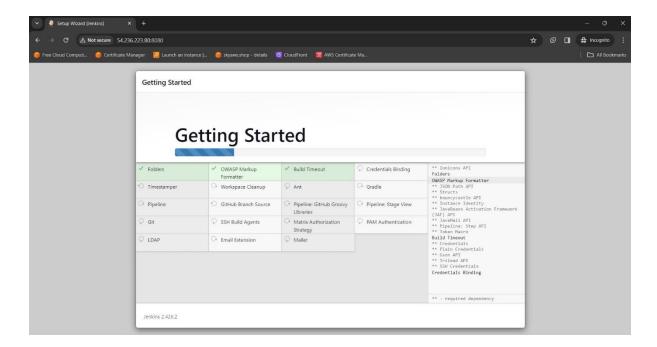
ANSIBLE - JENKINS - INTEGRATION



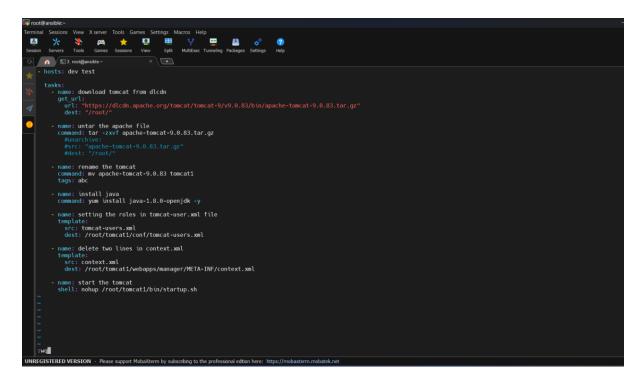
1. Create 5 servers (1 Ansible, 2 Dev, 2 Test) and One Nexus Server



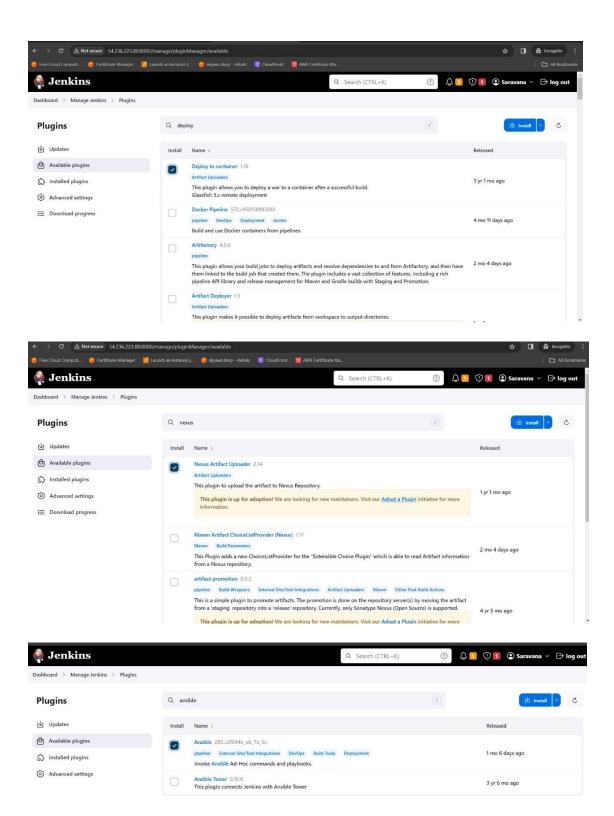
2. Configure Ansible Connection and Install Jenkins in Ansible-Master Node



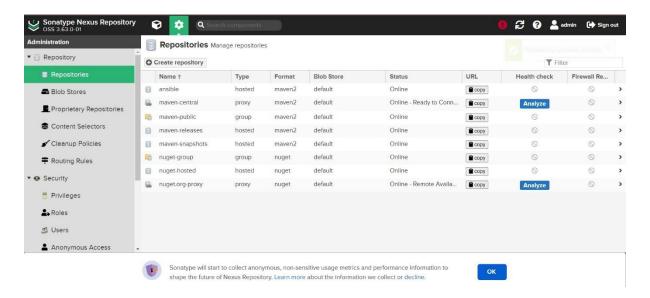
3. Write a playbook for Install Tomcat on Ansible nodes (dev1, dev2 & test1, test2)



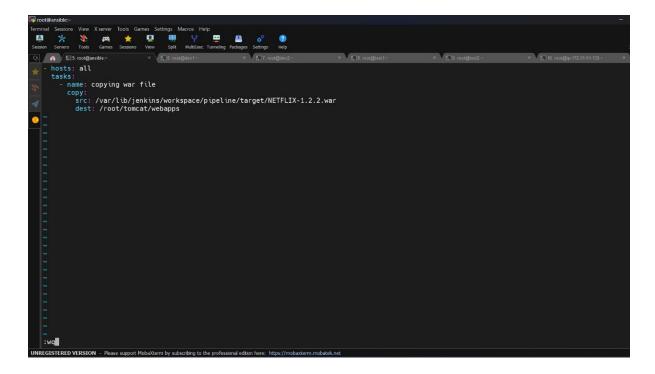
- 4. Install Nexus, Ansible-playbook & Deployment plugins:
 - a. Nexus Artifact Uploader
 - b. Ansible
 - c. Deploy to Container



5. Install Nexus using a shell script & Start Nexus Create a Repository (ansible) in Nexus

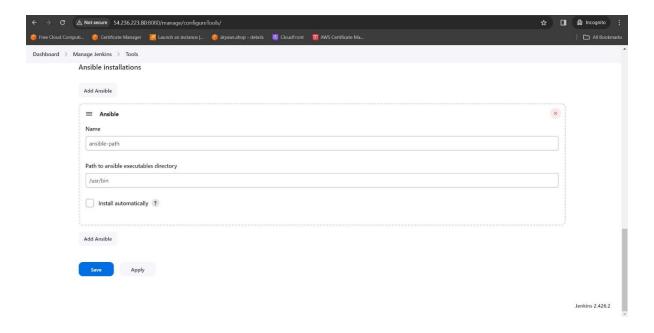


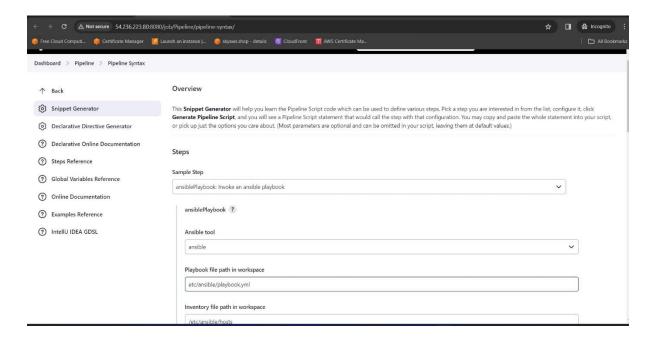
6. Copy the .war file from Jenkins workspace to Tomcat



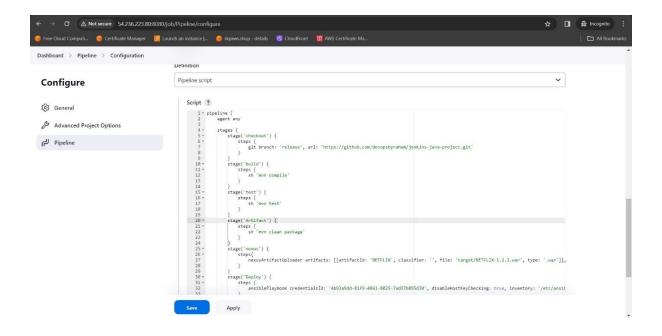
- 7. Configure Ansible in Jenkins Pipeline by using pipeline syntax
 - a. Ansible tool: ansible-path /usr/bin
 - b. Playbook file path in workspace: /etc/ansible/joy1.yml

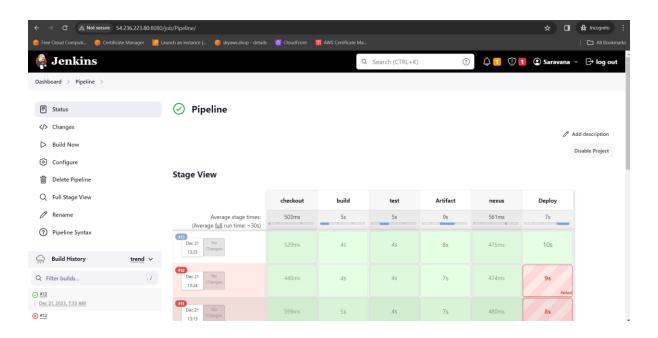
- c. Inventory file path in workspace: /etc/ansible/hosts
- d. SSH connection credentials: Username & password of Ansible nodes





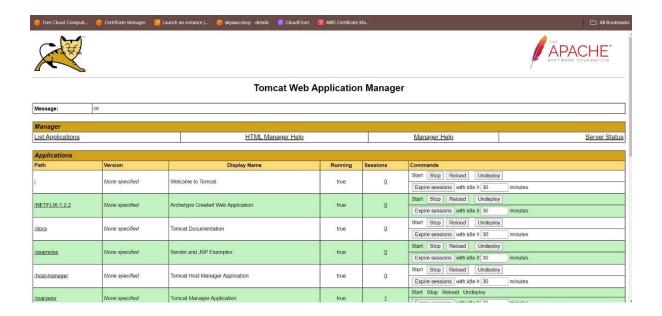
8. Generate a pipeline script to execute the Jenkins pipeline to deploy the Netflix application using Ansible-playbook pipeline syntax

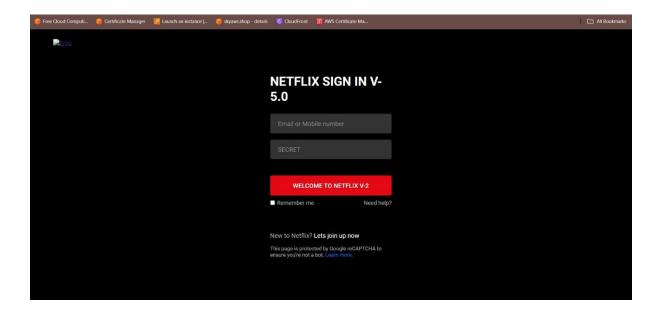




9. Verify Deployment:

- a. Check for the WAR file in the target directory.
- b. Access Tomcat using any worker node public IP:8080.
- c. Log in with username and password.
- d. Confirm the presence of the deployed NETFLIX application.



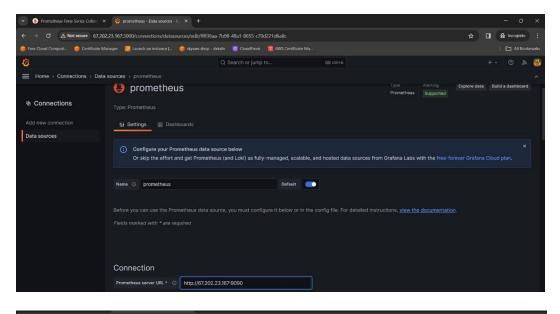


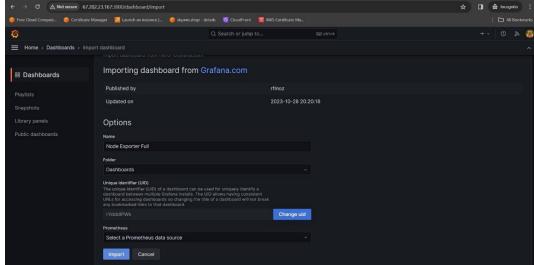
- ➤ Install Prometheus, Grafana, and Node Exporter in Monitoring Server.
- > Prometheus Configuration:
- a. Add Ansible master and worker nodes' public IPs to /etc/hosts.
- b. Edit /etc/prometheus/prometheus.yml to include worker node values.

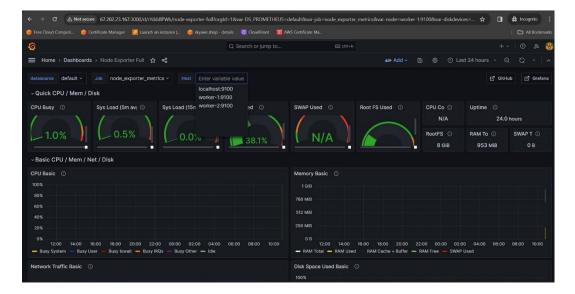
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| Common | Service | Common |
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WINCESTREED VINSION - Prace support Melabalaem by subscieng to the professoral close here: https://mabastem.mabatek.net
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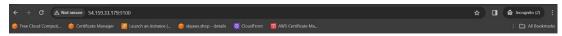
- ➤ Configure Grafana:
- a. Log in to Grafana.
- b. Configure Prometheus as a data source.
- c. Create dashboards and explore queries







• Verify Node Exporter:Login to Node Exporter using each worker node's public IP and port number 9100. Explore metrics



Node Exporter

Metrics

