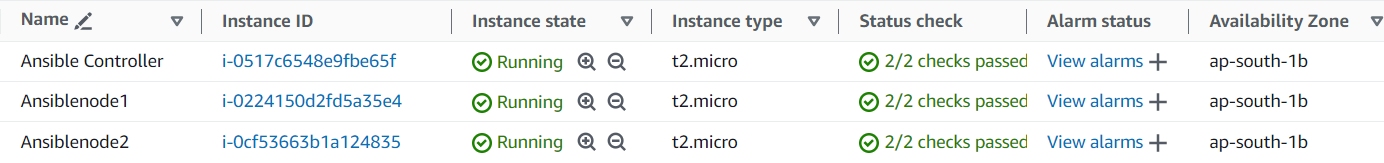
**Case Study**

*Module 5: Configuration Management with Ansible*

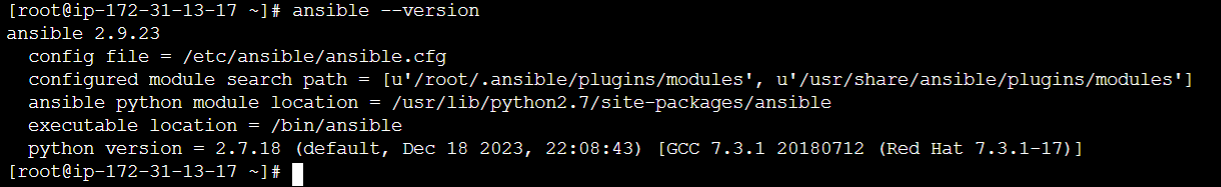
Steps for setting up Apache Tomcat using ansible

**Goal** - Provision the production environment for the upcoming update of their software

1. Created 3 amazon instance - ansible controller and 2 node instances



1. Installed ansible on the ansible controller instance

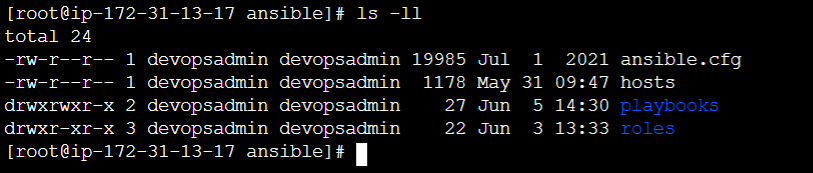


1. Created roles and playbook inside ansible

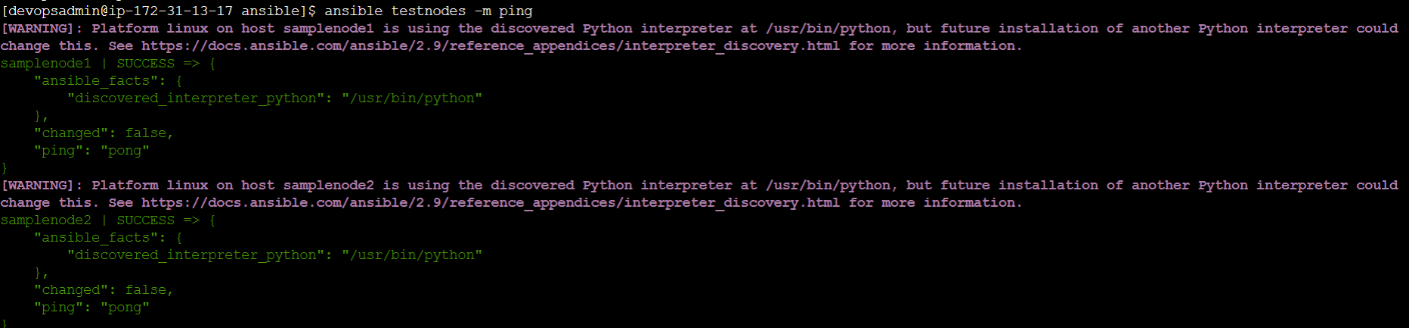
Commands-

Cd roles

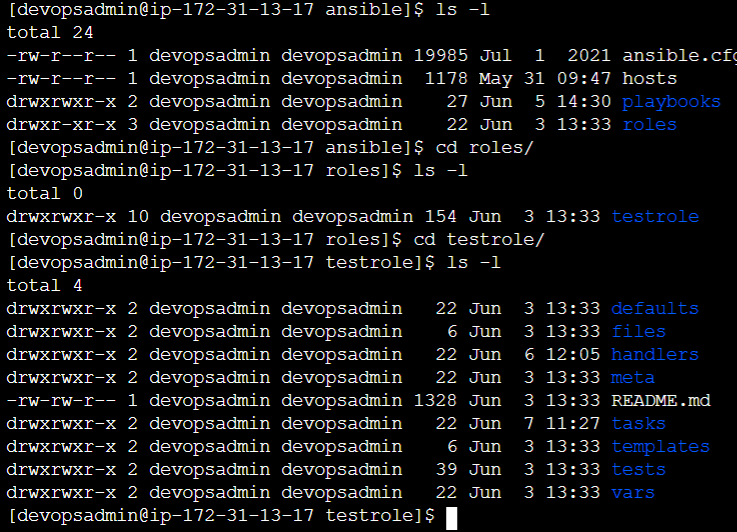
Ansible-galaxy init testrole



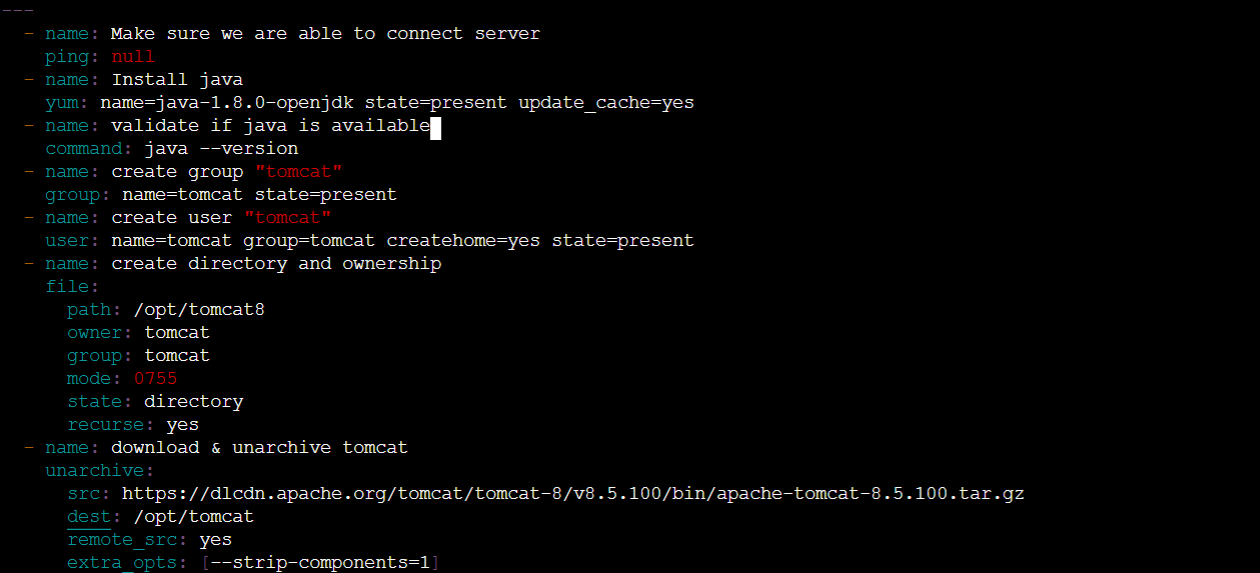
1. Made ssh connection with node 1 & node 2

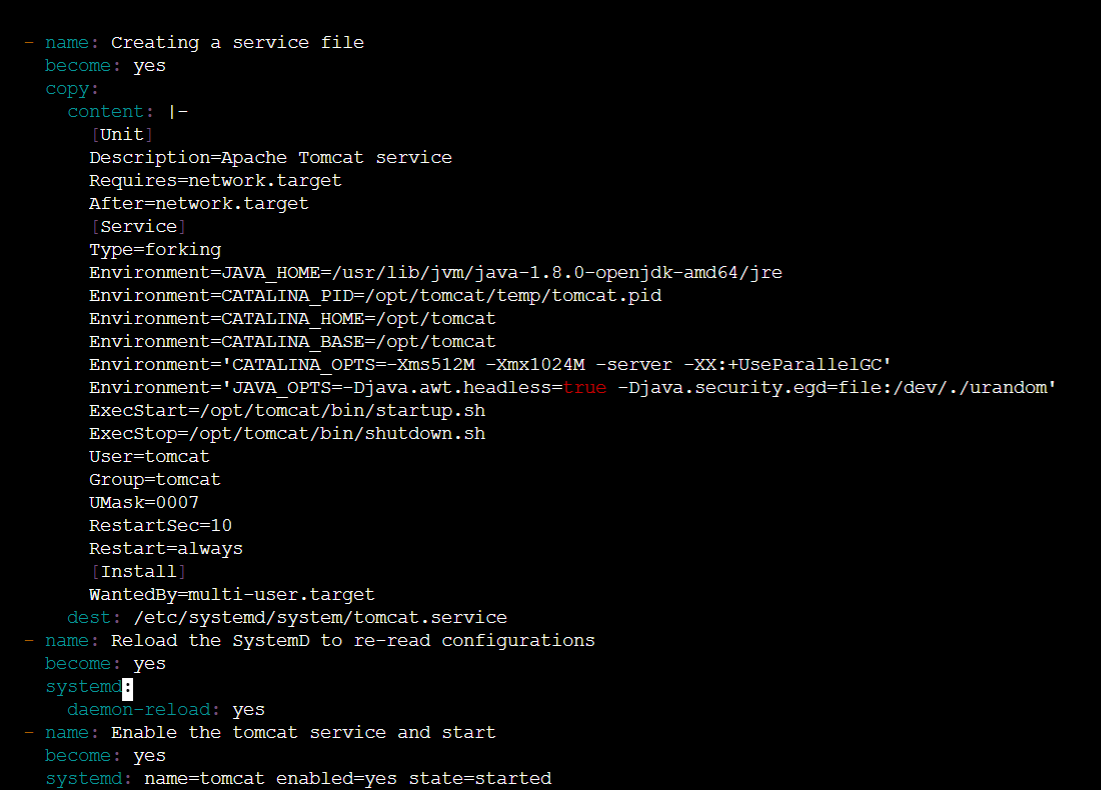


1. Created role named testrole for apache tomcat installation .

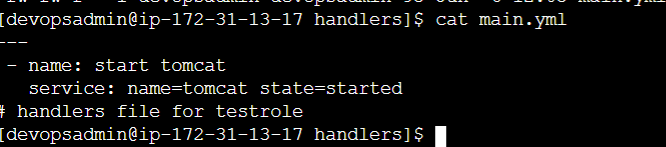


1. Main.yml entry from “task” directory of role name - testrole

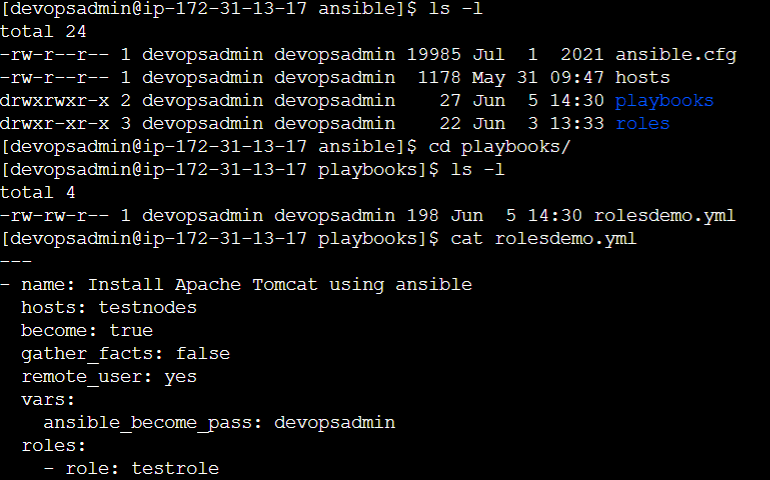




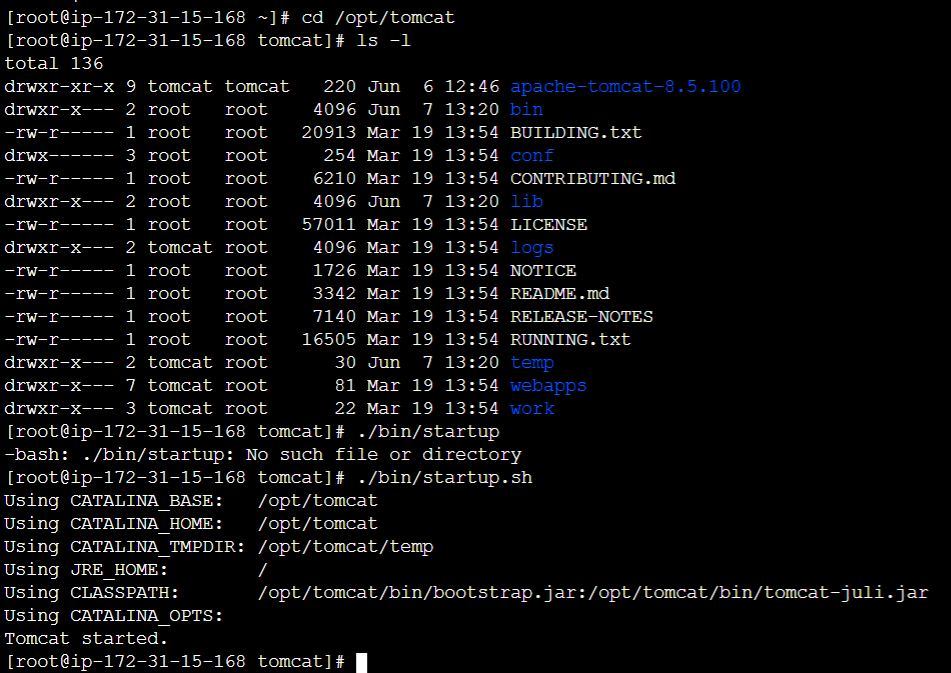
1. “Handlers” entry yaml script

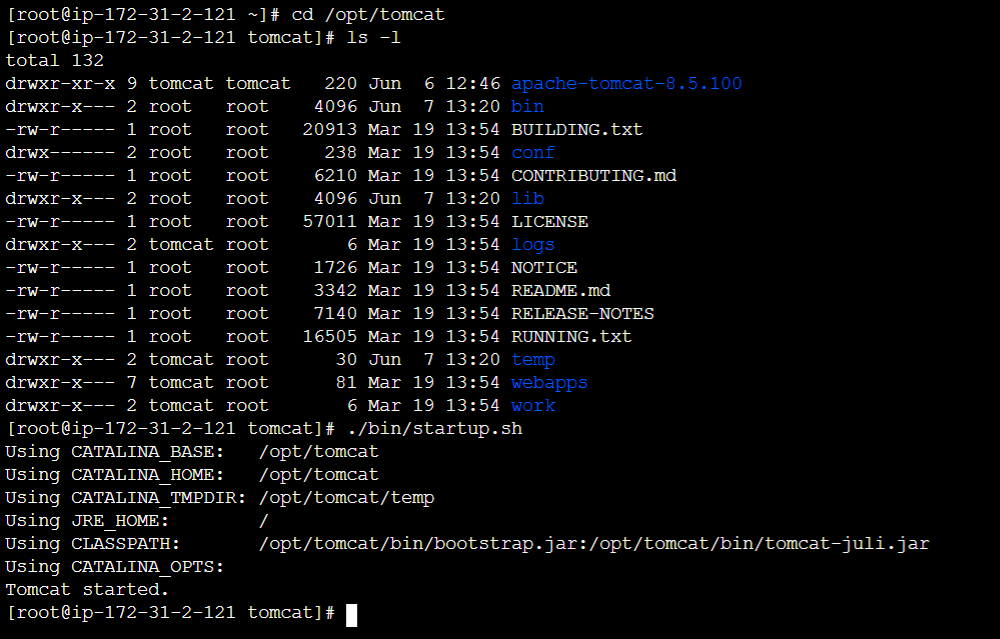


1. Entry inside playbook - rolesdemo.yml



1. Tomcat got installed into node instancers



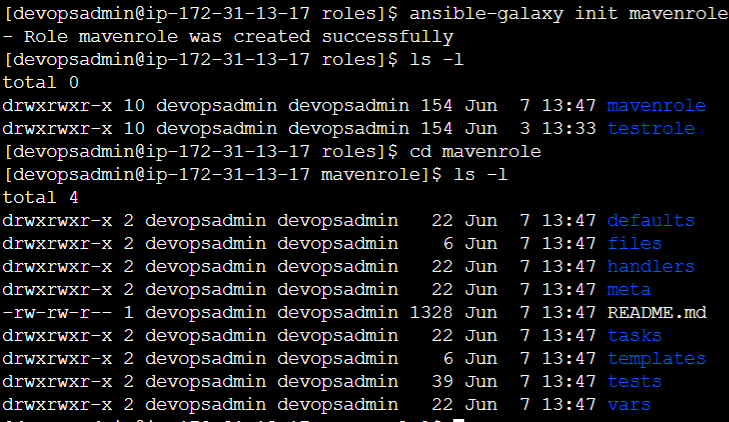


Steps for setting up Apache Maven using ansible

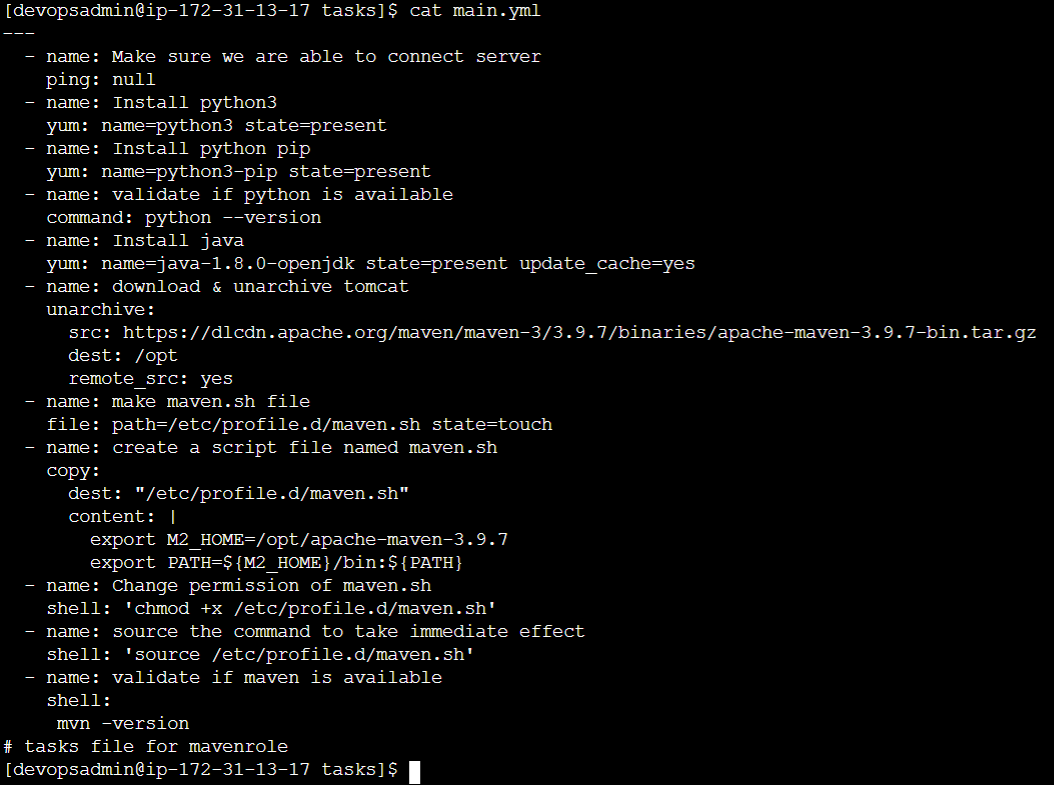
1. Created role for maven installation in ansible controller

cd roles/

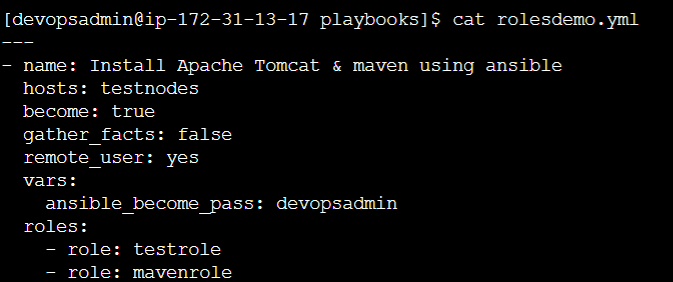
ansible-galaxy init mavenrole



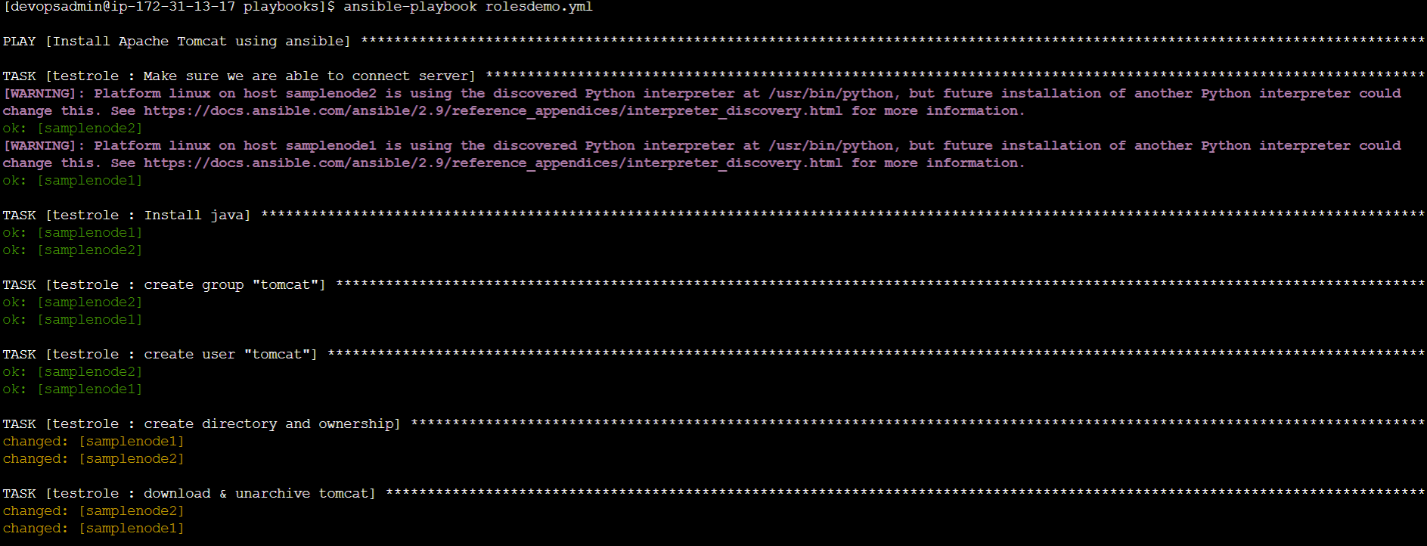
1. Main.yml entry from Task directory

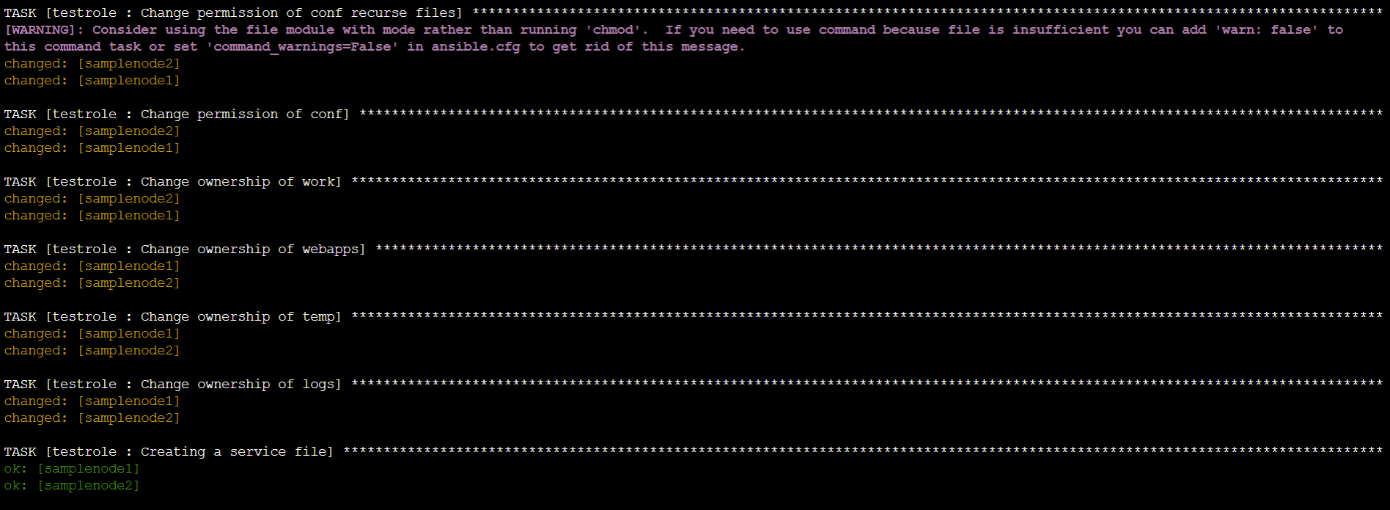


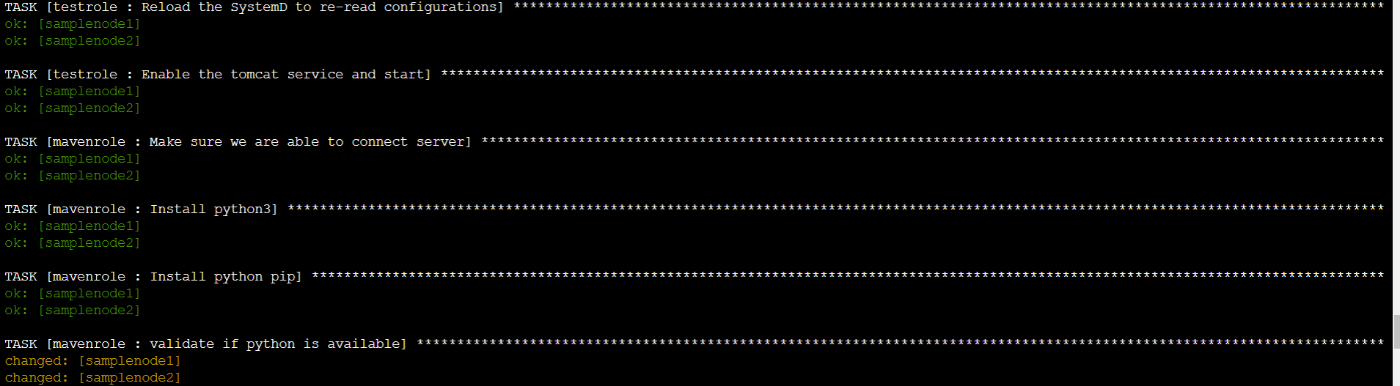
1. Brought both roles into one playbook.

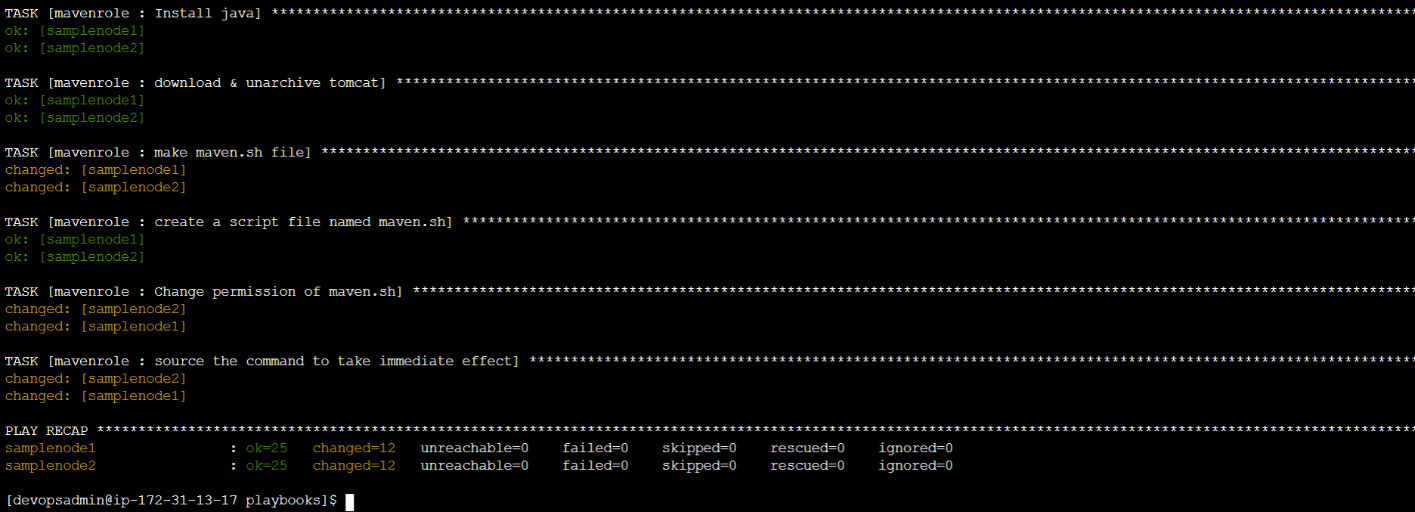


1. Ran the playbook “rolesdemo.yml”

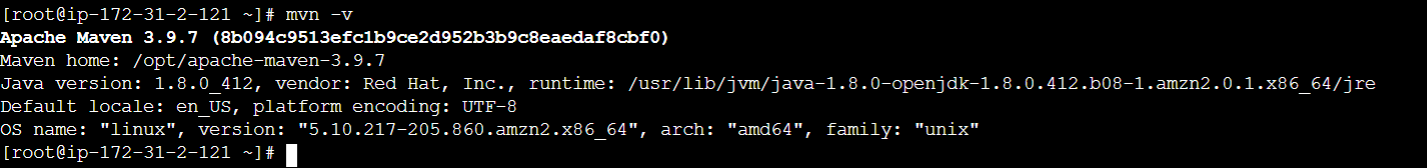




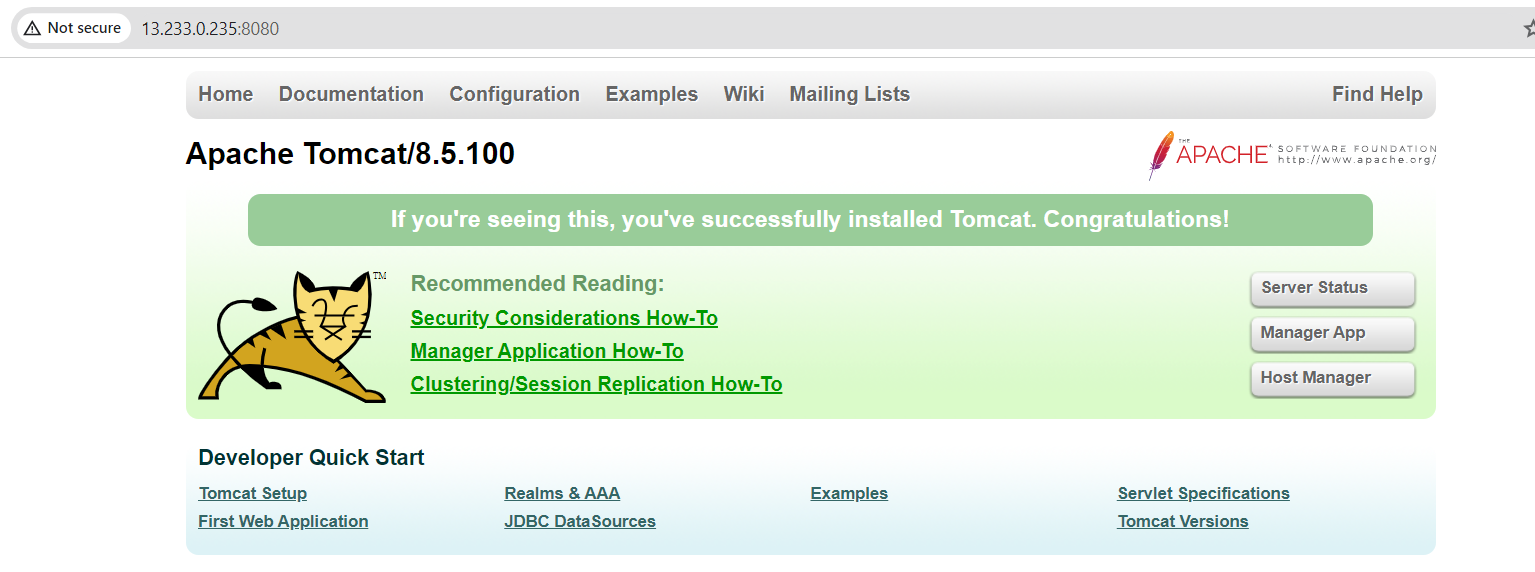


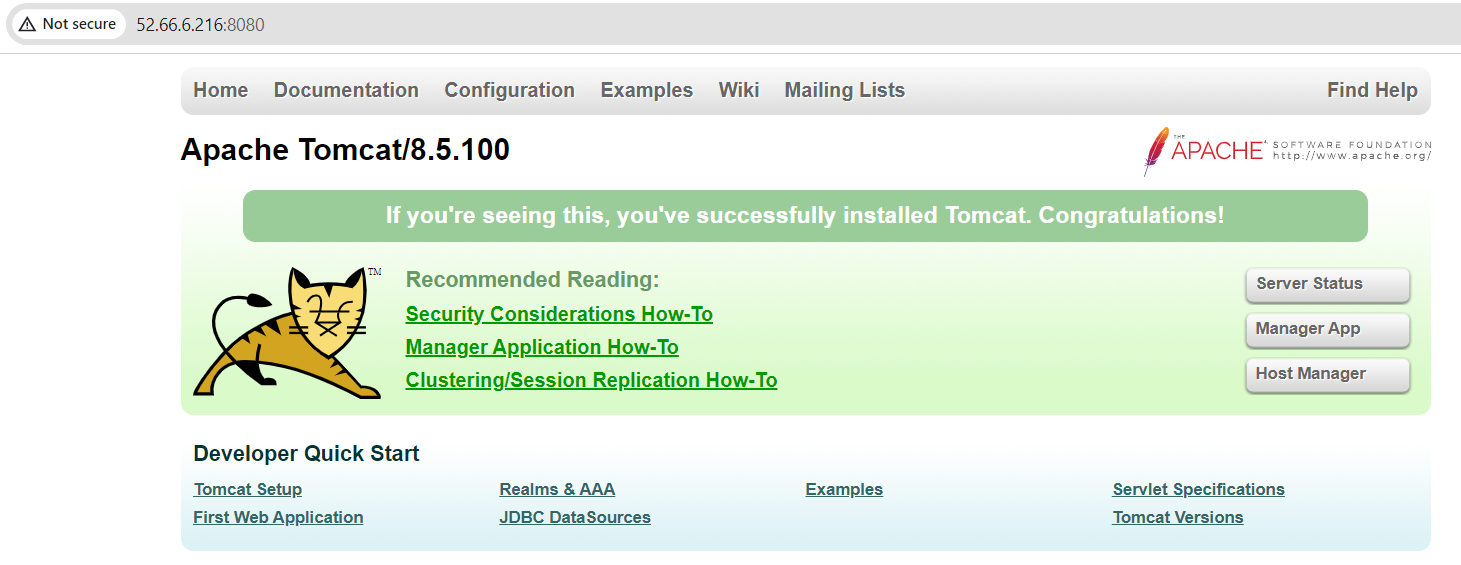


1. Apache tomcat site & Maven is installed on the slave nodes and acceccible now









**Outcome:**

* Reduced manual setup time from 45 minutes to under 5 minutes
* Reusable and scalable for deploying across 5+ VMs
* **Maven**: Used in CI/CD pipelines to build apps
* **Tomcat**: Target server where apps are deployed