

## **Assignment 1**

An organization XYZ private limited is transforming into DevOps, they have a very complex infrastructure setup and their applications runs on 100s of servers. They would like to automate the server configuration to bring in consistency across the servers and improve their environment stability. You have been hired as a DevOps Engineer to automate their infrastructure configuration. Organization has decided to use Ansible as Configuration Automation tool.

As a DevOps Engineer, you are required to execute following task.

1. Create 2 AWS ubuntu instance.
2. Setup Ansible on one instance.
3. Write a playbook to configure another instance with following software.
  - a. Install git
  - b. Install maven
  - c. Install tomcat9
4. Configure hosts inventory file to configure another instance.
5. Execute the playbook.
6. Validate the configuration on another instance with following commands.
  - a. `mvn -version`

## **Ansible Assignment – 2**

**Data Persistence using Docker Volume** An organization XYZ private limited is transforming into DevOps, they have a very complex infrastructure setup, and their applications runs on 100s of servers. They would like to automate the server configuration to bring in consistency across the servers and improve their environment stability. You have been hired as a DevOps Engineer to automate their infrastructure configuration. Organization has decided to use Ansible as Configuration Automation tool.

As a DevOps Engineer, you are required to execute following task.

1. Create 2 AWS ubuntu instance.
2. Setup Ansible on one instance.
3. Setup hosts inventory file.

4. Take the Spring boot application.
5. Containerize the Spring boot Application
6. Write an Ansible role to configure another node with following –
  - Docker Engine
  - Create Unix user and group named (demo)
  - Deploy the Spring Boot App.
7. Verify the Application by accessing it in the browser