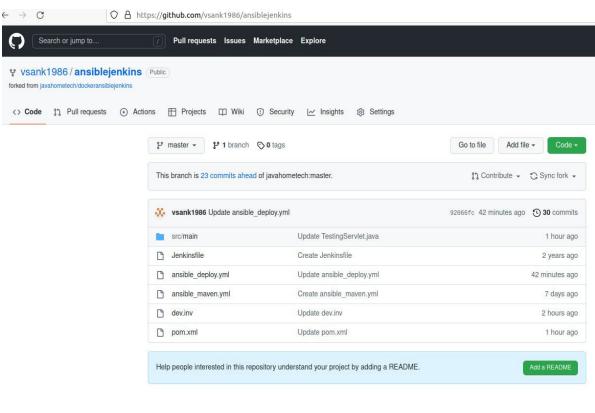
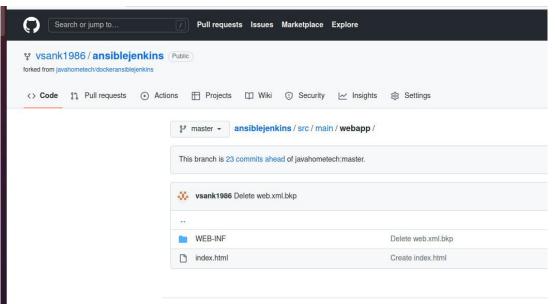
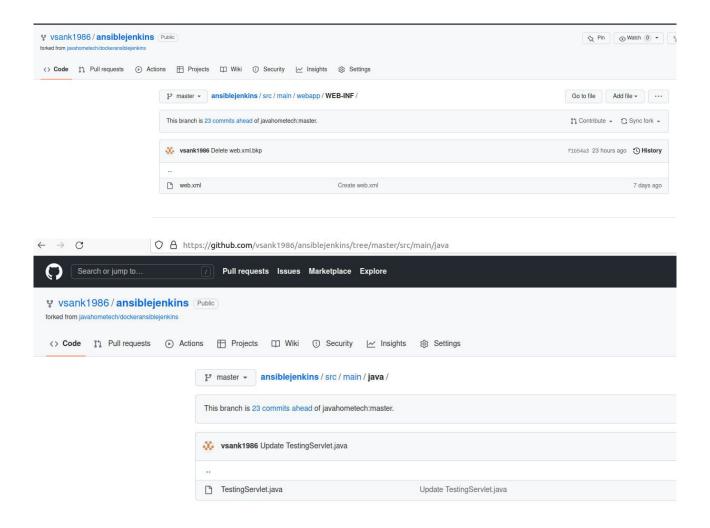
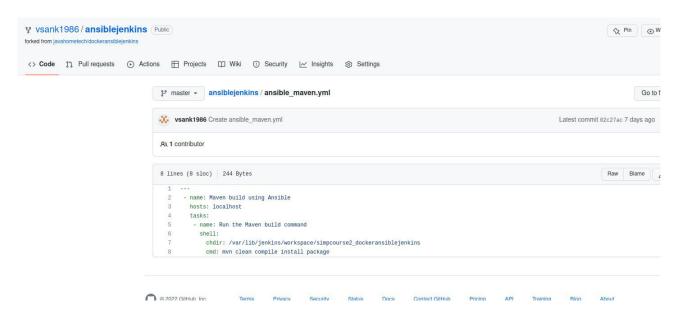
- 1. Created a small Java servlet application that takes a input and prints it in the next screen. The Java code consists of a java file named TestingServlet.java, a web.xml file and an index.html file. The java file is placed in the folder structure ansiblejenkins/src/main/java/. The index.html is placed in the folder ansiblejenkins/src/main/webapp/ and web.xml is placed in the folder ansiblejenkins/src/main/webapp/WEB-INF
- 2. Created a new repository in Github and uploaded the files there. The gitub repository name is vsank1986/ansiblejenkins





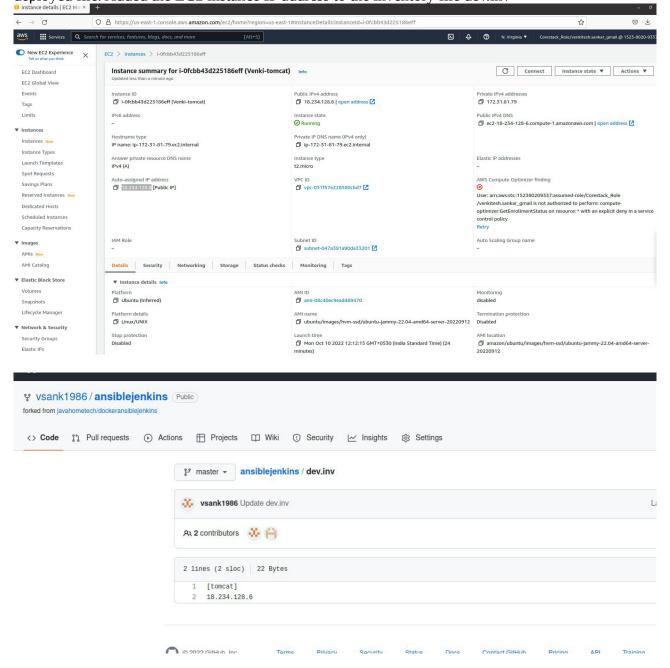


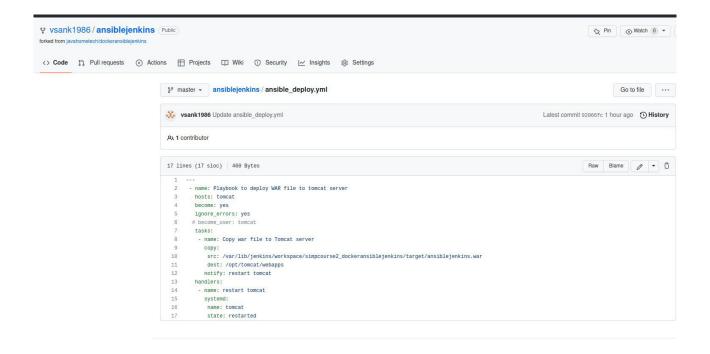
3. Wrote an ansible playbook named ansible_maven.yml in the root directory of Github repository vsank1986/ansiblejenkins. The ansible playbook uses shell module to do a maven clean,compile,install and package the java code in to a war file. The pom.xml for this maven build was downloaded from internet. The ansible playbook uses 'hosts' as localhost as it will be executed on the Jekis machine itself and in the workspace directory of the Jenkins project.



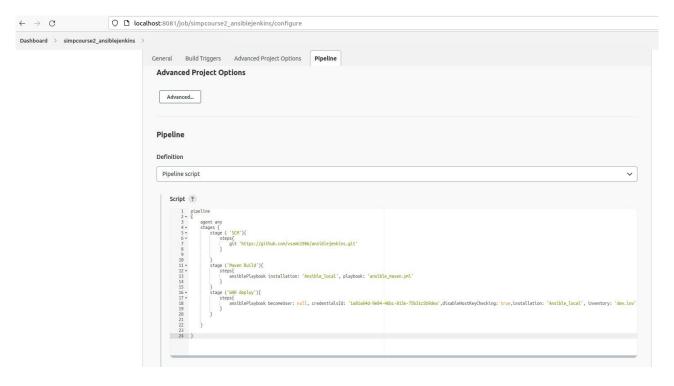
4. Wrote one more playbook named 'ansible_deploy.yml' to copy the war file generated in step 3 to a remote tomcat server. This ansible playbook uses copy module. The remote server used here is

AWS ec2 instance. The war file will be uploaded to the folder /opt/tomcat/webapps in the Ec2 instance. The playbook uses a handler to restart the tomcat service if there is a change in the deployed file. Added the EC2 instance IP address to the inventory file dev.inv

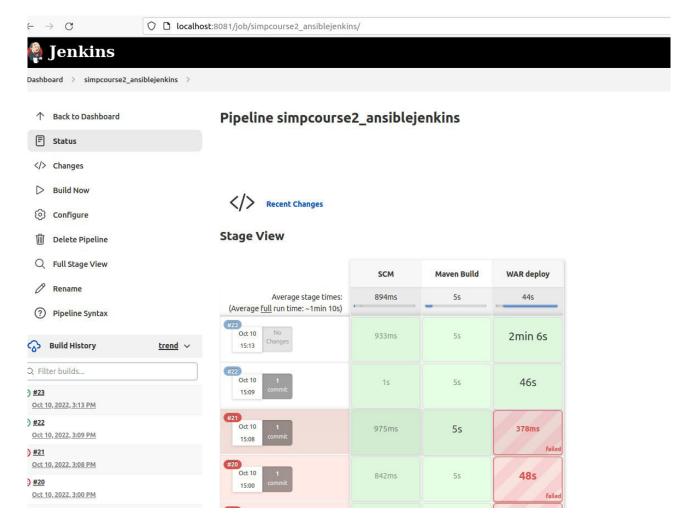




5. Created a pipeline type job in Jenkins named 'ansiblejenkins' to implement the CI/CD pipeline. In the job, there is a pipeline script that is trigerred whenever there is a commit in the GitHub repository. The job is scheduled to run with pollSCM option for every 2 seconds.



- 6. The pipeline script pulls the source code from Github to workspace folder. Then will do a maven build using the playbook ansible_maven.yml.
- 7. The third stage in the pipeline job deploy the war file created by maven build to the EC2 tomcat server using the playbook ansible_deploy.yml. The ssh key to the EC2 instance was added as a jenkins credentials of kind 'SSH username with private key'. Also we need to add the option disableHostKeyChecking: true.



8. Once the pipeline job was completed successfully, I was able to access the URL http://18.234.128.6:8080/ansiblejenkins and it worked as expected.





Hello tt

Current Date & Time: Mon Oct 10 09:41:22 UTC 2022