DevOps Practical

1. Create AWS instance and connect it to putty
2. Install Docker on AWS instance and show the version of it.
3. Install git on AWS instance and show the version of it.
4. Compile project in Jenkins using Maven
5. Create slave node in Jenkins
6. Assign project to slave node and build project
7. Run Selenium Tests in Jenkins Using Maven
8. Build pipeline project in Jenkins
9. To Perform various GIT operations on local and Remote repositories
10. Pull Ubuntu image in docker and execute bash
11. Pull files from github using git
12. Push file to github using git
13. Pull hello world in docker
14. Execute basic commands in docker
15. Execute basic commands in git

Sample viva questions

- What is DevOps?
- Why is it important in the IT industry ?
- Phases of software lifecycle .
- Agile Methodology.
- Difference between waterfall and agile.
- What is the version control system ?
- What is git ?
- Difference between local and remote repository ?
- What is fork in git ?
- Which is the continuous integration tool ?
- What is jenkins ?
- What is maven , ant and gradle ?
- What is master slave architecture in Jenkins ?
- What is the purpose of testing ?
- What is the pom.xml file ?
- What is a test case ? Give any one example.
- What is selenium ?
- Difference between virtualization and container. Which one is better and why ?
- What is the docker container life cycle ?
- What is a docker image ?
- What is docker architecture ?
- What is a puppet ?
- What is Puppet master slave architecture ?
- What is AWS ?
- How to open an account in aws ?
- How to launch an instance on aws ?
- What is a security group ?
- Can we launch multiple instances ?