

Week 6 Assignment

1. what is Kubernetes?
2. Architecture of kubernetes or components in kubernetes?
3. what is control plane?
4. difference between Docker swarm and Kubernetes?
5. what is kubectl?
6. what are services present in Kubernetes?
7. what is difference between nodeport , cluster Ip, Loadbalancer?
8. what is stateful and stateless sets?
9. what is node affinity?
10. what is replica set and deployment
11. what is difference between Node and Pod?
12. what is pod?
13. what is Namespace and Repositories?
14. what happens if control plane goes down for the nodes?
15. what is manifest file?
16. what is Docker file, Dockercompose.yaml?
17. what is Service.yaml and Deployment.yaml?
18. How can you pass secrets to the Kubernetes cluster?
19. what is roll back and roll out?
20. How can you achieve Zero down time?

Assignments:

on top of docker install Jenkins and 2 slave machines and get connected to master jenkins

