

DevOps Interview Questions by Mr. Ashok

Linux Interview Questions

1) What kind of Linux Machines you are using in your project?

Ans : RHEL

2) How to display Linux version?

Ans : `$ cat /etc/os-release`

3) How to display Kernel version?

Ans : `$ uname -r`

4) How to display all the running process in Linux OS

Ans : `$ ps aux`

5) What is Zombie Process in Linux

Ans: A zombie process refers to any process that is essentially removed from the system as 'defunct', but still somehow resides in the processor's memory as a 'zombie'

Command To get Zombie Processes : `$ ps aux | egrep "Z|defunct"`

6) How to kill Running Process in Linux

Ans : `kill -9 <ProcessID>`

7) How to display the files which are 30 days old in Linux Machine

Ans :

Display 30 days old files in pwd : `$ find . -mtime +30 -print`

Display 30 days old files in specific directory : `$ find <directory-path> -mtime +30 -print`

8) How to delete all the files which are 30 days old in Linux Machine

Ans : `$ find <directory-path> -mtime +30 -delete`

9) What is the difference between find and locate

Ans: locate will search for the files in locate db where as find will search for the files in entire linux file system

10) How to display all the users who are belongs to a group

Ans: `$ getent group <group_name>`

Git Hub Questions

11) What is branching strategy in Git Hub ?

Ans) These are the branches we have in our repository: Master / Main, Dev, Feature, QA, UAT, Release

All the latest code will be available in master branch.

Developers will use Dev branch for on-going dev activities

New Enhancements will developed in Feature branch

Production release we will do from Release branch.

12) What is Pull Request in Git Hub ?

Ans: Pull Request is used to merge changes from one branch to another branch.

Ex: Develop branch changes we want to merge in feature branch then we will create a pull request with Reviewer.

Reviewer is responsible to review and should approve request then only we can merge changes form one branch to another branch

13) What is the difference between Merge and Rebase commands

Ans: Merge & Rebase both are used to merge changes from one branch to another branch

Merge will preseve commit history where as Rebase will not preserve commit history

14) What is Git Bisect command ?

Ans: 'git bisect' command is used to identify bad commit. Bad commit means the commit which introduced bug in the code.

15) What is Git Squash command

Ans: 'git squash' command is used to merge sequential commits into single commit.

16) What is Git Stash command

Ans: It is used to store working tree changes to stash area and make working tree clean.

17) Have you ever faced merge conflicts and how you resolved ?

Ans: Yes i have faced merge conflicts when we are merging branches. We have compared all the changes and we had meeting with dev team and we have removed un-wanted code and resolved conflicts manually.

18) Who will create Git Repositories in your project and who will tell you to create new Repository ?

Ans: Our DevOps team is responsible to create new repositories in git hub. Development team will send an email request with JIRA-Story to create new Repository with their manager approval. Once Dev Manager approved then DevOps team will create New Repository then we will close that Jira Story.

19) How you are managing Git Hub Permissions for team members ?

Ans: In Git Hub we have Role Based Access. DevOps team will have all permissions in git hub. For developers limited permissions will be available.

20) What is Branch Lock ?

Ans: release branch will be locked that means no body can commit code to release branch directly. If any developer wants to commit code to locked branch then we need to get Development Manager & DevOps manager approval then only we will give 'write' access for the branch.

Note: We will have code freeze before 1 month of production deployment. We will achieve that code freeze using branch lock.

Nexus Interview Questions**21) What is Artifact Repository ?**

Ans: It is used to store build artifacts like jar and war of our project

22) Why are you using Nexus Repository in the project ?

Ans: Nexus Repository we are using for 2 reasons.

- a) To store build artifacts
- b) To maintain shared libraries

23) What is snapshot repository & release-repository?

Ans: When project is under development then artifact will be uploaded to snapshot repository and when the project is released then it will be uploaded to release repository.

24) Do you have Remote Repository for the project ?

Ans: Yes we are using and maintaing shared libraries of our company

25) How do you secure your remote repository ?

Ans: In Nexus we configured Proxy-Server to authenticate requests. If request is coming from company network then only it will process otherwise it will not process that request.

Jenkins Interview Questions

- 26) What is CI CD ?
- 27) What is Master Slave configuration in Jenkins ?
- 28) What is Pipeline in Jenkins ?
- 29) Which pipeline you are using (scripted or declarative)?
- 30) What is the difference between scripted & declarative pipeline?
- 31) What are the stages available in pipeline?
- 32) How many pipelines available in your project?
- 33) How do you deploy the code from particular branch using Pipeline?
- 34) What is your pipeline trigger condition, how it will get triggered?
- 35) If one stage failed in pipeline then what will happen?
- 36) If any stage failed in pipeline, then i don't want to stop, i want to execute remaining stages also how to do that?
- 37) How to take Jenkins backup?
- 38) In Production Jenkins internet not available then how to install plugins?
- 39) What all plugins you have used in Jenkins server?
- 40) How to manage user permissions in Jenkins (developer should not edit jenkins pipeline)
- 41) If Jenkins pipeline failed then how you will troubleshoot that issue?

Ansible Interview Questions

- 42) What is the purpose of Ansible?
- 43) What is Host Inventory?
- 44) Explain few ad-hoc commands in Ansible
- 45) What is Playbook
- 46) Write sample playbook to install 'git' in all host nodes
- 47) What is Handler in playbook
- 48) What is tag and why we need that in playbook

- 49) What all the modules you have used in Ansible Playbook
- 50) How to secure playbooks?
- 51) Why we need create Ansible Roles?
- 52) What is Register Module in ansible?
- 53) In AWS we have User-Data to execute scripts while launching machine then we need to go for Ansible ?

Docker Interview Questions

- 54) What is the difference between Virtualization and Containerization?
- 55) Why we need to go for Containerization?
- 56) Which version of docker you are using in your project ?
- 57) Can you explain what is Docker file ?
- 58) Share your screen and write Dockerfile to deploy Spring Boot Application
- 59) What is the difference between CMD and ENTRYPOINT ?
- 60) How to build docker image ?
- 61) What will be there inside docker image ?
- 62) How you will set docker image privileges ?
- 63) How to compress docker image ?
- 64) Why we need to go for Docker Compose ?
- 65) Share your screen and write Docker Compose File ?
- 66) How to attach docker volume to docker container?
- 67) How to see logs of the container?
- 68) Why we need to use Docker Network?
- 69) Can you tell me the Docker commands that you have used ?
- 70) Where you are storing your project docker images ?
- 71) How you are uploading Docker image ?
- 72) How docker container is creating in your project ?
- 73) What is Docker Swarm ?
- 74) What is the difference between Stateless container & Stateful Container

Kubernetes Interview Questions

- 75) What is Kubernetes and Why we need it ?
- 76) Explain Kubernetes Architecture and its components ?
- 77) Which Kubernetes Cluster You are using In Your Project ?
- 78) What is Pod life cycle in Kubernetes ?
- 79) What is Static Pod ?
- 80) Why we need namespaces in Kubernetes ?
- 81) What all Services available in Kubernetes & explain differences among them
- 82) How you are deploying your project in Kubernetes ?
- 83) Who is responsible to write k8s manifest yml ?
- 84) Share your screen and write K8s deployment manifest yml
- 85) What is the purpose of Labels and Selectors in K8S
- 86) Which deployment strategy you are following in your project ?
- 87) What is Ingress in k8s ?
- 88) Where you have configured your project domain ?
- 89) Can you open and show me your project in google ?
- 90) How to check logs of container ?
- 91) My Database pod started but tables are not created how to troubleshoot this issue?
- 92) How to check db tables created or not in db container?
- 93) Who will deploy application in cluster & how it is happening in your project?
- 94) What is Headless Service in Kubernetes?
- 95) What is the difference between Kubernetes & OpenShift?
- 96) In our project we have OpenShift, if i select you then how you will contribute to our project?
- 97) What are the challenges you have faced in Kubernetes?
- 98) Which version of Kubernetes is used in your project?
- 99) How you are monitoring Kubernetes Cluster?
- 100) Could you please explain what is helm?

- 101) How you are doing Auto Scaling in Kubernetes?
- 102) What is the difference between K8S Autoscaling and AWS Autoscaling?
- 103) What is Metric Server in Kubernetes?
- 104) What is the difference between Deployment & Stateful set in Kubernetes?

Terraform Interview Questions

- 105) What is Terraform and Why we need to use it?
- 106) Could you please one terraforms script by sharing your screen
- 107) Explain Terraform Architecture
- 108) Explain most useful commands in Terraform
- 109) What is Module in Terraform
- 110) How to destroy infrastructure in Terraform
- 111) What steps should be followed for making an object of one module to be available for the other module at a high level ?
- 112) What is Tainted Resource ?
- 113) Where do you store your project Terraform Scripts?
- 114) Which resources you have created in AWS using terraform

General Interview Questions

- 115) Explain about yourself
- 116) Explain about your project
- 117) What is your project Tech Stack
- 118) What are your roles & responsibilities in the project?
- 119) What is DevOps why we need it?
- 120) Which methodology you are following in your project?
- 121) How you will get the daily task?
- 122) What is your team size?
- 123) Did you ever interact with client?
- 124) When was the last retrospective meeting happened in your project?

125) Why do you want to change the company?

126) If I select you in this interview, how you will help in my project?

127) In our Project everything is already configured, how you will add value to our team

128) What is your notice period, how soon you can join?

129) Do you have Notice Period Buy out option in the company?

130) We are done for today; do you have any questions for us?

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