Interview Questions for

Linux & Aws & DevOps

# DevOps

**Jenkins Questions:**

1. What is difference between CI & CD in Jenkins?
2. How can you use Jenkins in CLI?
3. Which plugin in used for code coverage in Jenkins?
4. How can you do security management in Jenkins?
5. Explained how can you install plugins and customized plugins?
6. Jenkins is standalone or master slave?
7. Are you created any pipeline jobs?
8. How can you install customized plugins?
9. Have you created master and slave configuration in Jenkins?
10. How can you created and configure job?
11. Why you can choose free-style job ?why can’t go for another job?
12. How you will create job in Jenkins?
13. Which format Jenkins data saved?
14. What is the use of master & slave in Jenkins?
15. In my company one new join had some mistakes so not able to login, how to recover?
16. How to give the access for a particular project to particular project?
17. Is it possible to change repo URL in Jenkins?
18. In Jenkins jacoco plugin got installed, but code coverage is not reporting, what parameters you will check and how you will debug?(after configuring jacoco correctly you are not getting coverage report, how you will debug?
19. How do you enable git full request analysis in Jenkins?
20. Have you configure the Jenkins automatic backup?
21. How can you change Jenkins port number?
22. I have installed Jenkins master in unix environment and Jenkins slaves on different environments like some slaves windows ans some slaves in linux. How can you connect from Jenkins master to slaves?
23. How we can establish master/slave connection in jenkins?
24. How to create a build job in jenkins?
25. High avaliability in jenkins (gearman plugin)?
26. If jenkins master is down, what will happen to the currently running job?
27. What is continuous deployment?
28. What is continuous delivery?
29. What is devops?
30. Difference between jar, war and ear?
31. JAR – it is a normal java application archieve holds generic libraries of java classes, which normally ends with .jar extension. (jdbc.jar – contains all classes to connect to a database).
32. WAR - it contains all files which needed for web application files. Files like servlets, jsp files, gif, html files. It is a jar file which ends with .war extension.
33. EAR - it contains all jar and war files needed for enterprise application. Files like xml, EJB modules.

**Ansible Questions:**

1. What is Ansible?
2. What are the advantage of Ansible?
3. How Ansible works?
4. What is the use of Ansible?
5. Is there a web interface / REST API / etc?
6. How do I submit a change to the documentation?
7. When should I use {{ }}? Also, how to interpolate variables or dynamic variable names
8. How to install Ansible
9. How do I generate crypted passwords for the user module?
10. How do I get ansible to reuse connections, enable Kerberized SSH, or have Ansible pay attention to my local SSH config file?
11. What is the best way to make content reusable/redistributable?
12. How do I see all the inventory vars defined for my host?
13. How do I copy files recursively onto a target host?
14. What is Ansible Role?
15. How do I access a variable name programmatically?
16. How do I access shell environment variables?
17. What is jinja templeate?

**Git & Github Questions:**

1. Explain any branching strategies you have followed in Github?
2. Is it mandatory to use Github? Why can I use Git instead of other VCS?
3. What is the difference between Git Pull and Git push?
4. I used Git on my laptop. Suddenly it got crashed then I want to recovery my data back. How can you do backup?
5. Which strategy you have followed in Git?
6. What is Git fetch and Git pull?explain in detail?
7. What is Git remote?
8. Tell me the command to create public branch and private branch in Git?
9. What is Git merge?
10. What is Git rebase?what is golden rule of rebase?
11. How to check the particular branch from Github?
12. Difference between Github and maven?
13. What is Git stash?

**Maven Questions:**

1. Difference between maven and Ant?
2. I see u have configured Jenkins with Artifactory repository.how are you making configurations in maven folder?
3. What is maven home directory?
4. What are folders available in maven home directory?
5. In which directory setting.xml available?
6. What is the use of setting.xml?
7. Explain about setting.xml?
8. What is profile?
9. How to skip the test cases?
10. What you have written in pom.xml?
11. Difference between snapshot and real image?
12. How to run the particular profile?
13. What is maven build life cycle?

**Docker Questions:**

1. What is docker
2. How to create docker file?how it will used dockerfile?
3. Explain about docker structure?
4. Difference between docker and virutal mechines?
5. How you have used docker in your past position?
6. I lose my data when the docker container exits?
7. Difference between docker container and docker image?

**Python Questions:**

1. What is the largest value in integer type in python 2.7?
2. How documenting a function in python 2.7?
3. Have you worked on python?
4. Write a shell python script to print “connect” string in reverse by using loop or array?

**Shell scripting Questions:**

1. I have script file called helloworld.sh and I can execute like

#bash helloworld.sh

#./helloworld.sh

1. Take x as input print FIZZ number is divisible by 3, print BUZZ if the num is divisible by 5 print FIZZBUZZ if it is divisible by both else print the number?

# LINUX

1. The command uname -a what it will give?
2. What is the difference between bash\_profile and bashrc file in user home directory?
3. What is login shell and non login shell?
4. Can you explain me the contents in /etc/shadow file?
5. How is your knowledge on linux file system?
6. Have you worked on /srv directory?
7. What is the difference between /bin and /sbin directory?
8. What configuration we have to set to do for normal user and root user differentiation?
9. There is some settings which makes doesn’t show some advanced commands to normal user? what are those settings?
10. What is the Path and what does it do?
11. Difference between public and private key in ssh?
12. Which language u prefer?
13. Difference between $\* and $@?
14. Explain about Cron job?
15. How to check one software where is install in linux mechine ?suppose take Jenkins?
16. How to set path which is accessible by the all the users?
17. Tell me some networking commands?
18. Explain about permissions in linux ?permission component?
19. How to replace with rohith to ashok using linux command?
20. How to setup passwordless ssh between two instance?
21. What is nice command?
22. What is sed command?
23. What is difference between su root and su – root command?
24. How to create user?
25. How to create the group?
26. How to add group to user?
27. How to check CPU utilizations?
28. What is load average?
29. What is difference between load average and CPU load?
30. What is Inode?
31. What is sticky bit?
32. How to check process is in waiting state or not?
33. What is process?
34. What is thread?
35. On what process the will shutdown?
36. How to see is cronjob running are not?
37. How to find the empty directories in current directory and need to delete?
38. How to find the empty file in current directory?
39. How to find the empty lines in particular file and need to remove?
40. How to find your server is physical (or) virtual in Linux.
41. How to extend LV.
42. How to find kernel version.
43. How to check if any packages got update?
44. How to update linux server?
45. How to see system uptime?
46. Which file provides the input to uptime cmd?
47. Which file has maximun UID and GID information.
48. How to check current runlevel.
49. What is sticky bit.
50. What is default port for FTP?
51. What is default port for SAMBA and what ports to be open to communicate with other systems.
52. What is difference b/w thread and process?
53. Where you can find kernel boot messages?
54. Difference between service restart and reload?
55. How to reload nfs exports file?
56. What is apache graceful?
57. What does top cmd do?
58. What are the steps to maintain good system performance in linux?
59. What are types of process in linux.
60. Difference b/w soft and hard link.
61. What are buffer and cache in free cmd.
62. How do you do patching in linux.
63. How to rollback an update.
64. What is –c in fdisk command?
65. Httpd access denied error while accessing from remote machine?

Require all granted. It will be denied by default which denies access to all users. If you want to allow set **“required all granted”** in virtualhost.

1. Difference between SElinux Modes?

**Enforcing** = working and preventing all unauthorized actions. And a corresponding event is logged in audit log.

**Permissive** = enabled and fully functional, but allows all actions.

1. Difference between yum & rpm?
2. Yum install full application along with its dependenices and libraries. Yum download dependencies from the repos. Whereas rpm installs only the package that you have downloaded. Rpm will give error while installing a package, if the dependencies are not present.
3. Purpose of awk command?
4. It is used to analyze the text files for lines that match any set of patterns specified. We can use awk command sin cmd (or) we can write awk programs.

# AWS

**AWS Questions:**

1. What is the difference between Regions and avilabilityzones?
2. Types of ec2, ebs?
3. How do you know it is public cloud(how do you define weather it is public cloud are private cloud)?
4. What is difference between public cloud and private cloud?
5. Explain about cloud infrastructure?
6. What is cloud technology ?why are you use cloud?
7. What is the use of load balancer? Which load balancer you are using?
8. What is s3?
9. What is the limit of buckets for an account?
10. How do you send requests to s3?
11. How many instances can we launch from an AMI?
12. Max no of instances we can launch in an region?
13. Elb works in which OSI Layer?
14. What are cloud watch custom metrics?
15. How to implement new AMI in autoscaling?
16. How many health checks are there in auto scaling?
17. What is difference between security groups and NACL?
18. What is horizontal and vertical scaling?

**Horizontal** = where you scale by adding machines to the pool of resources.

**Vertical** = where you scale by adding more power(like cpu, ram).

1. What is cloud architecture?

It refers to the components and subcomponents require for cloud computing. The components like storage, servers and a network.

1. What is network latency?

It is a term used to indicate that how much time it takes for a packet of data to get from one designed point to another.

If the packet gets little delayed to get, it called low-latency.

If the packet get highly delayed to get, it called high-latency.

1. How to use your own VM’s instead of aws AMI’S?

**Tomcat Questions :**

1. Explain your roles and responsbilities in tomcat?
2. I have deleted the log file unexpectedly, without restarting the apache server how to get it back?
3. What is the difference between application server and web server?
4. How you will deploy to apache tomcat?
5. In tomcat what is server.xml?
6. How to set memory limits?
7. How to set database details in server.xml?
8. Write a script to deploy war file into application server?