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COMPANY:::MPHASIS  
ROLE:::DevOps Engineer  
Date:::08-07-2021

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## INTERVIEW QUESTIONS:

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01. Brief about urself & work experience as a DevOps Engineer?
02. Can you Brief me about your branching strategies you follow?
03. When you merge the code, if you face some merge conflicts? How do you resolve merge conflicts?
04. How do you push file from local system to repository like using git?
05. Assuming that you have committed the changes in git, at later you want to rollback the changes, whats the process to rollback the changes?
06. Is Git Reset works for both Local & remote repository?
07. Assume you have N number of commits, You want to make N commits to one commit, Is there any technique?
08. How you use Git Squashing?
09. How frequently do you use git with ur environment?
10. Assume that developer or you have done a merge, the merge is successful. you want to have automatic build triggered, example jenkins? what is the process to have this automatic build trigger after a successful merge?
11. Where do you copy url? is the jenkins url or github url? is any settings is required on ur github?
12. Which pipelines have you used in Jenkins? Can you brief me about multiple aspects of a jenkins declarative pipeline?
13. You may want to add Build parameters, if you want to build on Dev environment or in QA environment, How to you define variables in Jenkins file?
14. Assume you have module in jenkins, example you have sourcecode check using sonarqube, assuming that you have integrated sonarqube with jenkins and you want build job to be success only if it is 75 or 80% threshold otherwise the build should fail? how do you achieve this?
15. How you use multiple branch pipelines in jenkins? what are multibranch pipelines? Why do we need this?
16. What are shared libraries in jenkins?
17. Can you brief me about how you have used ansible within ur pipeline, like is it a pipeline you have used ansible or is kind of separate jobs to provision ur infrastructure?
18. We use jenkins? i think we can do same job with jenkins, but why ansible?
19. How do you configure the communication between master and nodes?

20. What is this ansible inventory?
21. Why are Ansible handlers used? Have you use ansible handlers?
22. Can you name some of the modules you used in ansible?
23. What are ansible roles? why do we need this roles, we have ansible playbooks, still we need ansible roles? How is this different?
24. How do you create this roles? assume that you created a ansible role, if you want to test the ansible roles, how do you test ansible roles?
25. What are ansible facts?
26. If you want to execute an Ad-hoc command to get the ansible host details, can you do that?
27. Have you got Exposure kubernetes also or have you worked only with docker?
28. Can you brief me about docker in ur pipelines, or have you used dockers?
29. How do you create an Image?
30. Whats the difference between docker image and docker container?
31. What is an entrypoint? How you use entrypoint? how is it different from cmd command?
32. What are add commands and copy commands?
33. What is bindmount? Have you used volumes in docker?
34. Why do we need for docker volume?
35. Can we run more processes in a container?
36. How do you run multiple containers as a single service?
37. Which services are you used in aws cloud?
38. What are ur daily activites with respect to the cloud?
39. When you provision the ec2 instances, do you do them manually or is this process to automated? ok you use terraform to provision the ec2 instances?
40. Have you integrated ur ec2 instances with ur pipeline or how is it? so like What do you do, when you have this ec2 instance what do you do with the pipeline? like are you providing this ec2 instance for the development team to do any testing? what is actual made for ec2 instance? oh ur environment is completely on the cloud right? So you have all jenkins servers and rest of the servers on cloud?
41. Do you know the configuration of Jenkins instance in aws? what is the configuration that you have like hardware (harddisk, ram, etc..)?
42. Whats are the steps to provision this ec2 instance? so if it is terraform how do you provision these instances?
43. So in terraform you need a way to manage ur credentials, for example you need to manage ur aws credentials, w

What's the best approach to follow and manage this  
Terraform or how is it?

credentials in terraform? do you provide credentials to terraform?

44. Terraform providers?

45. Terraform datasource?

46. What does this Terraform init command do? is it just starts terraform or what it does?

47. Difference between CloudWatch and CloudTrail?

48. Is it possible to scale an EC2 instance vertically?

49. What are some of the security features associated with the VPC?

50. What are security groups and NACLs?

51. What are NAT gateways? purpose of NAT gateways? what are these private networks?

52. What is the use of Load Balancers in AWS?

53. How about monitoring tools? so you have Nagios integrated with Jenkins or how is it? Jenkins provides reports to Nagios?

54. Do you have exposure to any programming language or scripting language?

55. Is it a Java application or .NET application are you working for?