**AWS**

1. How long are you using AWS?

From last two projects we are using aws, we are using EC2, S3, VPC, EBS, ELB. I have used most of the services to bootstrap the nodes. Now a days we are trying to use terraform (also similar to AWS CFT used to create, update and version AWS infrastructure, an APN technology) also to provision the nodes. It is giving more flexibility to use AWS services. We can divide variables and environments.

1. What are the tools are you using in DevOps?
2. For infrastructure provisioning, what are you using?

CFT, I have written CFT in jenkins execute shell to create AWS resources like instances in AWS and written cookbooks to install and configure apache, tomcat. And also I have integrated chef with aws, whenever we wanted to create new environment on the fly, kick-off the cft form which will create the ec2-instances on the fly, and also I invoke the chef-client to get the latest keys required from s3 bucket to connect with the chef-server and synchronize the chef recipes and ec2-instances.

1. What are the AWS services you mostly used?

we are using EC2, S3, VPC, EBS, ELB. I have used most of the services to bootstrap the nodes. Now a days we are trying to use terraform (also similar to AWS CFT used to create, update and version AWS infrastructure, an APN technology) also to provision the nodes. It is giving more flexibility to use AWS services. We can divide variables and environments.

1. What instance types do you regularly use?

Instance FamilyCurrent Generation Instance Types

General purpose

t2.nano | t2.micro | t2.small | t2.medium | t2.large | t2.xlarge | t2.2xlarge | m3.medium | m3.large | m3.xlarge | m3.2xlarge | m4.large | m4.xlarge | m4.2xlarge | m4.4xlarge | m4.10xlarge | m4.16xlarge

Compute optimized

c3.large | c3.xlarge | c3.2xlarge | c3.4xlarge | c3.8xlarge | c4.large | c4.xlarge | c4.2xlarge | c4.4xlarge | c4.8xlarge

Memory optimized

r3.large | r3.xlarge | r3.2xlarge | r3.4xlarge | r3.8xlarge | r4.large | r4.xlarge | r4.2xlarge | r4.4xlarge | r4.8xlarge | r4.16xlarge | x1.16xlarge | x1.32xlarge | x1e.32xlarge

Storage optimized

d2.xlarge | d2.2xlarge | d2.4xlarge | d2.8xlarge | i2.xlarge | i2.2xlarge | i2.4xlarge | i2.8xlarge | i3.large | i3.xlarge | i3.2xlarge | i3.4xlarge | i3.8xlarge | i3.16xlarge

Accelerated computing

f1.2xlarge | f1.16xlarge | g2.2xlarge | g2.8xlarge | g3.4xlarge | g3.8xlarge | g3.16xlarge | p2.xlarge | p2.8xlarge | p2.16xlarge

**Scenario based questions**

1. If you have an EC2, and you have lost key pair, what will you do?
2. If you have an EBS vol and have a snapshot?
3. Can we spinup instance using a snapshot?
4. How will you increase vol of EBS using a running instance?
5. What happens apps running previously when attaching a new EBS?
6. What OSs did you use?
7. If an Ec2 is running with 100% CPU/RAM, how do you resolve this?
8. How does backup logs help you in revealing information?
9. Can't we use auto-scaling for memory?
10. Can you tell me the steps involved in auto-scaling for CPU utilization?
11. In DevOps envi, you have diff AMIs, If someone is trying to launch an instance that is not described by DevOps, How can we restrict that type of instances to get launched?
12. What is an ENI in AWS and why is it used?
13. How do you mount an EBS in CentOS?
14. What is init.d?
15. How can I make 'tomcat as a service on EC2?
16. What is an instance profile and why do we have to do that?
17. Can we use any other srcurity practice to grant access to an instance other than with IAM?
18. What is S3 bucket policy?
19. What is the role of IAM?
20. What is a transfer acceleration?
21. You have an app server and database server, how can you restrict the access in between app and database server?
22. Did you ever used spot instances in your env?
23. Did you use ELB (CLB and ALB)?
24. What is the difference between ELB and CLB?
25. I have 2 aws accounts A and B. How can A (who has IAM user) access the S3 bucket which is in B?
26. what are the aws services using in the environment?
27. what are the devops tools using in the current environment?
28. what is ec2 instance store? its advantages and disadvantages?
29. Alternative options to ec2 instance store?
30. What does ebs based ec2 mean?
31. What is PIOPS?
32. what is ENI and its significance?
33. How do you access or ssh into instances running in private subnet?
34. What is nat gateway?
35. How do you connect database instances running in different vpcs? what are the steps?
36. How do you increase the size of an ebs volume while an instance is running? walk me through the steps?
37. How do you handle if a key pair pertaining to an ec2 instance is lost?
38. What is a s3 bucket policy and how it differs from iam policy?
39. Difference between pass role and assume role in iam?
40. How to enable access to an iam user in an account to a s3 bucket in other account?
41. What is transfer acceleration in s3?
42. When using cloud front for transfer acceleration, does any changes are required to be made from client side?
43. What is ec2 classic? how do you enable connection between an ec2 classic and an ec2 in vpc?
44. What is NACL? NACL vs SG?
45. Do you have used VPN, Customer gateway and virtual gateway?
46. What are the attributes that should be mentioned in CFT for S3 and ec2?
47. sequence the stack/orchestrate in CFT: ec2, autoscaling, elb, rds, dynamodb, s3
48. What are the routing policies in route 53? what is weighted routing policy?
49. What is connection draining in elb?
50. What are the health configurations we make for an elb?
51. What sort of logs you collect in devops?
52. How do you notify the devops team regarding cpu utilization?
53. How many applications/projects you are invovled and number of the builds per day?
54. Explain CI/CD for a typical application?
55. How many nodes do you have in production?
56. How do you deal with memory issues in production and how will you notify the teams (email) and what is the server you use (smtp)?
57. Have you dealt with RAID? what RAID 0 and RAID 1? can we combine both?
58. Do you use ecs?
59. How do you debug a box hitting 100% of memory and what logs will you use to analyze?
60. Have you ever used lambda?
61. Who is incharge of AMIs?
62. How do you restrict the usage of AMIs by users for spinning instances?
63. How do you backup the jenkins nodes and where do you backup?
64. What is chef apply?
65. How do you start a service during the booting process of linux?
66. How do you bootstrap?