AWS INTERVIEW QUESTIONS

**1.what are the pre booting steps of server creation?**

Ans: Choose AMI , Choose Instance Type ,Configure Instance, Add storage, Add Tags, Configure Security group, Review.

**2.Servernames in AWS, Azure, IBM, GCP?**

Ans: Linux and windows called “Server”

Aws called “Instance”

Azure called “Virtual Machine”

GCP called “VM instance”

IBM cloud “Virtual classic server”.

**3 Which instance types preferred in production environment?**

Ans: T2 extra large

M4 Extra large

R5 Extra large

Database: R5 Large , M5 large and M5 extra large

**4. what is security group in aws and 5 port numbers?**

Ans : Security group is a “virtual firewall”

SSH --- 22

FTP --- 21

HTTP --- 80

HTTPS --- 443

RDP --- 3389

**5. why do we change instance type?**

Ans: when developer raise a ticket for deployment failure due to insufficient memory.

As a AWS admin logs check in :

Cd /var/logs/dmsgs.

**6 If we change instance type ,if any downtime required?**

Ans : Yes, raise a ticket for downtime instance type change activity.

Dev environment ,Test,Test environment, STG environment --- Jira ticket

Preprod,prodenv ---- SNOW – client approval

**7 . How much time required for down time?**

Ans: 8 to 18 min downtime required.

**8) can we rename the security group?**

Ans : we need to create a security group with instance vpc id and goto -->Actions🡪networking-🡪change security group

No we cannot change the security group.

**9) My production instance suddenly stops, what are the troubleshooting steps?**

Ans : Get system log.

**Actions**-🡪Instance settings 🡪get system log.

Start the server and check the server log.

**10) Types of load balancers?**

Ans: Network load balancer, Application load balancer, Classic load balancer.

Network load balancer Allows: TCP, TLS, UDP

Application load balancer Allows: HTTP, HTTPS

Classic load balancer Allows: HTTP, HTTPS, TCP

**11)difference between NLB and ALB?**

Ans : NLB is a Layer 4 and allows TCP,TLS,UDP Ports.

NLB to take the traffic 45000 + hits.

ALB is a Layer 6 and allows HTTP,HTTPS PORTS

ALB it takes 30,000 hits.

**12) Explain the schemas in Realtime classic load balancer?**

Ans : Internet facing and Internal facing

**13) How to check windows server logs ?**

Ans : Event viewer 🡪 application logs

**14 : How to install any application in windows server ?**

Ans : servermanager🡪add roles and Features.

**15: Difference between windows and linux server ?**

Ans : Linus is a opensource ,light weight. If we coonect linux mandatory SSH port.

Windows mandatory RDP port.

**16) Types of AMI ?**

Ans: Quick start, my AMI, AWS market place,Community AMI’s

**17) Types of certificates in real time ?**

Ans: Provisional certificate – ACM

Private certificate – Import

**18) Putty is not connected in my pc?**

Ans) we need to add IP 0.0.0.0 on(NAT gate way) public routable

**19) Account types in environment?**

Ans: Dev, Test, Prod (Small company)

Sandbox (POC), Dev, Test, Prod, STG, Preprod.

20) **Full admin access?**

Ans: In production user don’t have billing dashboard access.

VPC

**18)What is a VPC?**

Ans: Logical secure private cloud.

**19) What are the vpc components ?**

Ans: CIDRBLOCK,INTERNETGATEWAY,SUBNETS(PUBLIC,PRIVATE),ROUTE TABLE,NAT GATEWAY,PEERING.

**20) what is the difference between public and private table (or) how to identify public and private table?**

Ans: Route table internet gateway entry called as Public route table.

Route table NAT gateway entry called as Private route table .

**21)What is NAT gateway ?**

Ans) proving internet access to private servers.

**22) number of vpcs in a one region ?**

Ans: 5 VPC

**23) I have 2 vpcs VPC A and VPC B , what are the pre requisites for the VPC peering connectivity ?**

Ans: Account number(Owner), VPC ID, VPC region, VPC private sub net, Accept any side.

**24) What is the max and min IP range ?**

Ans: Max /16 and min /28

**25) CIDR formula?**

Ans: (2(^32-n))-5

**26) How to connect our vpc to onprem network?**

Ans: Virtual gateway

**27) when I create a VPC CIDR with 10.0.0.0/24 in this 5 ips holded by AWS what are those?**

Ans: 10.0.0.0 --- Network address

10.0.0.1 --- Reserved for VPC router

10.0.0.2--- Reserved for amazon DNS server

10.0.0.3 – reserved for AWS feature use

10.0.0.4 – Network broad cast.

**28) difference between AMI and snapshot ?**

Ans: AMI is a bootable image

Snapshot is a non-bootable image.

**29 ) Can we create a server with a snap shot ?**

Ans: No, why because we will get 1 by 2 checks.

**30 )Can we delete a snapshot directly ?**

Ans: No, we need to deregister on AMI and then delete on Snapshot

**31)How to share one account AMI to another AMI?**

Ans: Goto AMI🡪 Action🡪Modify image permission🡪 add account

**32) I need same server in another region ?**

Ans: AMI🡪 Action 🡪CopyAMI

**33) Is the data transfer having the charge ?**

Ans: Yes

**34) Types of status checks ?**

Ans: System status checks and Instance status checks

**35)What is AMI and SNAPSHOT?**

Ans: AMI is a Backup of Instance

Snapshot is a back of VOLUME

**36) Route 53 (R53) Policies?**

Ans: Simple (Using present company)

Weighted policy

Failover

Geo location

Latency

Multi value answer

**S3 Bucket interview** questions

1. **What are the prerequisites of S3 bucket (cross region cross replication)?**

Ans) Two S3 buckets in different region

Two S3 buckets should be enable in versioning

Create a rule between 2 S3 buckets.

1. **Can we reduce the cost of the backup S3 bucket?**

Ans) yes, object storage class

1. **Types of object storage classes?**

Ans: standard,

Standard-IA,

Glacier,

Intelligent-Tiering

**4) Why we use versioning?**

Ans) Versioning is used for restoring the deleted data

Versioning is used for taking a backup of all versions of one file.

1. **What role created for 2 buckets communication?**

Ans: s3crr\_role

1. **How many endpoints created in entire AWS?**

Ans: 3 end points (Static website endpoint, VPC endpoint, RDS endpoint)

**7)** **Getting 404 not found error?**

Ans: There is a no such key like Index.html, error.html

**8) 403 Forbidden error?**

Ans: click Index.html, error.html give make a Public

**9) Do you know edge locations?**

Ans: yes, cache locations it takes 24 hrs save after that it vanished any one hit below 24 hrs again it will hit.

AutoScaling

Auto scaling is used for High availability

Cloud Trail

Cloud trail used for :

User Tracking

Audit purpose

Entire account

Logs store – s3 bucket – Glacier

Cloud trail logs in UI --- 90 days

Cloud Front

1. **By default, TTL?**

Ans: 24 hrs.

1. **Maximum TTL?**

Ans: 365 days

Lambda

Lambda is a server less code.

Lambda mainly used for Triggering

**3) I need to check lambda error log files where it is?**

Ans: Cloud watch-log group

**4) Lambda CPU memory?**

Ans: minimum 128 MB, Maximum 10240 MB (10 GB)

**5) Lambda function run between in real time?**

Ans: 100 milli sec to 3.2 min

**6) Lambda supports codes?**

Ans: C, Java, node JS, Phyton

**7) What is your major trouble shoots in last one week?**

Ans: My production server backups snapshots created in same region as well as copy in another region.

Suddenly stops the copy snapshots in another region then I secure logs and debug multiple ways and found error with memory size then I go to configuration and change high configuration and executed same lamda Function, now is copied.

Elastic Beanstalk

Server as a code

Web applications deployment, monitoring, scaling

POC (Proof of concept) in sandbox

Its UI based deployments

Server has no keypairs – not able to take back up codes

High expensive

Kubernetes

**1) Why we called Kubernetes as orchestration tool?**

Ans: Deploying, scheduling, Scaling, Load balancer, Batch execution, Rollbacks, Monitoring.

**2) Different types of Container orchestration tool?**

Ans: Docker swan, EKS, Kubernetes, OpenShift, GKE, AKS

**3) How many master nodes and worker nodes in your project ?**

Ans: one Master code, 20 + worker nodes

4**) What are the main components in Master code?**

Ans : API server , ETCD, Scheduler , Controller manager

**5) What are the main components in worker nodes ?**

Ans : Kublet , Container run time

**6) Where we found the Cluster database information (Secrete key, Cluster nodes, Cluster pods) or all information?**

Ans: ETCD

**7) In your real time ETCD information available in which location?**

Ans: S3 Bucket

**8) What is a pods?**

Ans: Pod is a combination of multiple containers in the same net work

**9) What is the flow of a Kubernetes (or) Explain the Master node components?**

Ans:

Developer send a code to API server through KUBECTL

**Kubectl –(to) --Apiserver**

**Api server –(to)-- ETCD**

**Etcd –(to)-- Api server**

**Api server –(to)-- Scheduler**

**Scheduler –(to)—Apiserver**

**Api server –(to)— Kublet**

**Kublet –(to)— Container runtime**

**Container runtime –(to)— Pod created**

**Pod information –(to)— Kublet**

**Kublet –(to)— Api server**

**Api server –(to)— ETCD**