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22A91A1248

THEORY

1. What is Ec2?

EC2 -ELASTIC COMPUTE CLOUD. It comes under compute category.

It is a web service that provides resizable compute capacity in the cloud. It allows you to launch and manage virtual servers on demand.

2. What is VPC?

VPC -VIRTUAL PRIVATE CLOUD. It creates a private network within AWS where you can launch AWS resources in a virtual network that you define. Components include Subnets, Route Tables, Internet Gateways, and Network Access Control Lists (ACLs).

3. What are the difference between S3 And Elastic Block storage?

S3 offers unlimited storage for objects, while EBS has limited storage tied to the size of volumes. In block storage the volume is limited to 1 gb to 16 tb in object storage there is no restrictions.

. 4. What is Key-pair?

A key pair is a security method for EC2 access, with a public key on the instance and a private key for the user to securely log in.

5.what is load balancer?

A service that automatically distributes incoming application traffic across multiple targets, such as EC2 instances, to ensure high availability and fault tolerance.

6. what is auto-scaling?

A service that automatically adjusts the number of EC2 instances or other resources to handle changes in demand, maintaining performance and optimizing costs.

7. what is sns?

SIMPLE NOTIFICATION SERVICE: A fully managed messaging service that allows you to send notifications and messages to a large number of subscribers via SMS, email, or other protocols.

8. what is RDS?

RELATIONAL DATABASE SERVICE:-->A managed database service that supports various database engines (e.g., MySQL, PostgreSQL, SQL Server). It handles routine database tasks like backups and patching.

9. What is DynamoDB?

A fully managed NoSQL database service that provides fast and predictable performance with seamless scalability. It's designed for high availability and reliability.

10. what are the Components of AWS , VPC, Autoscaling?

AWS Components:

EC2, S3, IAM, RDS, Lambda, EBS ..etc

VPC Components:

Subnets, Internet Gateway, Route Tables, Security Groups, NAT Gateway

Auto Scaling Components:

Launch Configuration, Auto Scaling Group, Scaling Policies

11. PORT Numbers: SFTP,HTTP,HTTPS,RDP,RDS,MY-SQL,REDIS?

SFTP: 22

HTTP: 80

HTTPS: 443

RDP: 3389

RDS: Varies by database type e.g =3306

MySQL: 3306

Redis: 6379