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1) Explain what AWS is?
        AWS stands for Amazon Web Service; it is a collection of remote computing services also
known as a cloud computing platform. This new realm of cloud computing is also known as
TaaS or Infrastructure as a Service.
2) Mention what the key components of AWS are?
        The key components of AWS are
Route 53:A DNS web service
Simple E-mail Service:It allows sending e-mail using RESTFUL API call or via regular
Identity and Access Management: It provides enhanced security and identity
                                management for your AWS account
Simple Storage Device or (S3):It is a storage device and the most widely used AWS
                                service
Elastic Compute Cloud (EC2): It provides on-demand computing resources for hosting
                                applications. It is handy in case of unpredictable workloads
Elastic Block Store (EBS):It offers persistent storage volumes that attach to EC2 to
                         allow you to persist data past the lifespan of a single Amazon EC2 instance
CloudWatch: To monitor AWS resources, It allows administrators to view and collect
                         key Also, one can set a notification alarm in case of trouble.
3) Explain what S3 is?
        53 stands for Simple Storage Service. You can use S3 interface to store and retrieve any
amount of data, at any time and from anywhere on the web. For S3, the payment model is "pay
as you go."
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7) Mention what the difference between Amazon S3 and EC2 is? The difference between EC2 and Amazon S3 is that EC2 for hosting your application where any amount of data can be stored It has a REST interface It is like a huge computer machine which can run either and uses secure HMACSHA1 Linux or Windows and can authentication keys handle application like PHP, Python, Apache or any databases

Yes, you can vertically scale on Amazon instance. For that

8) Explain can you vertically scale an Amazon instance? How? Spin up a new larger\_instance than the one you are currently running Pause that instance and detach the root webs volume from the server and discard

Then stop your live instance and detach its root volume

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is?
        T2 instances are designed to provide moderate baseline performance and the capability to
burst to higher performance as required by the workload.
10) In VPC with private and public subnets, database servers should ideally be launched
        With private and public subnets in VPC, database servers should ideally launch into private
11) Mention what the security best practices for Amazon EC2 are?
       For secure Amazon EC2 best practices,
        follow the following steps
# Use AWS identity and access management to control access to your AWS resources
# Restrict access by allowing only trusted hosts or networks to access ports on your
# Review the rules in your security groups regularly
# Only open up permissions that you require
# Disable password-based login, for example, launched from your AMI
12) What are key-pairs in AWS?
        Key-pairs are secure login information for your virtual machines. To connect to the instances,
you can use key-pairs which contain a public-key and private-key.
13) Route Table
        A routing table is a logical construct within an amazon VPC that contains a set of rules(Called
Routes) that area applied to the subnet and used to determine where network traffic is directed.
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 14) Internet Gateway
         An Internet Gateway is a horizontally scalled and highly available Amazon VPC component that allo
 communication between instances in your Amazon VPC and the Internet.
15) NAT Gateway
         ANAT gateway is an Amazon-managed resource that is designed to operate just like a NAT instance.i
 It is simpler to manage and highly available within an Availability Zone.
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16) What is VPC?
        VPC stands for Virtual Private Cloud. It allows you to customize your networking configuration.
It is a network which is logically isolated from another network in the cloud. It allows you to have
your IP address range. internet gateways, subnet and security groups.
17) What are the advantages of auto-scaling?
        Following are the advantages of autoscaling
# Better availability
# Better cost management
18) What is meant by subnet?
        A large section of IP Address divided into chunks is known as subnets.
19) How many subnets can you have per VPC?
        You can have 200 subnets per VPC
20) DNS and Load Balancer service comes under which type of cloud service?
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DNS and Load Balancer and DNS services come under IAAS-storage cloud service.

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21) When EC2 officially launched?
       EC2 officially launched in the year 2006.
22) How to connect EBS volume to multiple instances?
       We can't be able to connect EBS volume to multiple instances. Although, you can connect
various EBS Volumes to a single instance.
23) List different types of cloud services
       Various types of cloud services are:
              Software as a Service (SaaS),
              Platform as a Service (PaaS)
              Infrastructure as a Service (IaaS).
24) State the difference between An Instance and AMI
       AMI is a template consisting software configuration part. For example Operating systems,
applications, application server if you start an instance, a duplicate of the AMI in a row as an
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