

**Q1:** Auto Scaling

**A1:** The AWS feature that allows for elasticity by scaling up and down EC2 instances

**Q2:** Cloud Form

**A2:** To create a cloudformation template from an existing environment

**Q3:** M3 instances

**A3:** Instances that have a good balance of memory, compute and network utilization

**Q4:** The SWF service is primarily an API

**A4:** API

**Q5:** A real-time data processing service that continuously processes data

**A5:** Kinesis

**A6:** Amazon Machine Images (AMI)

**Q6:** A template used to build instances used with Auto scaling and disaster recovery are called

**A7:** ElastiCache

**Q7:** Caching of high-taxing DB queries are stored in

**Q8:** A large increase in read IOPs means the EC2 instance does not have enough

**A8:** Memory (RAM)

**Q9:** What command is run to retrieve metadata from an AMI

**A9:** curl http://169.254.169.254/latest/meta-data/

**Q10:** Instance Store-backed Instances

**A10:** The type of AMI that uses ephemeral (temporary) storage available for the life of an ACTIVE Instance

**Q11:** A VPG acts as a connector on what side of the VPN tunnel?

**A11:** VPC

**Q12:** Amazon's own fork of MySQL is

**A12:** Aurora

**Q13:** EBS backed instances can only be

**A13:** Attached to one instance at a time.

**Q14:** Amazon's fully managed database service for relational databases is known as

**A14:** Amazon RDS

**Q15:** Security groups are

**A15:** Stateful (return traffic is allowed)

**Q16:** The S3 type that is cheap and utilized for easily reproducible data is known as

**A16:** RRS (Reduced redundancy storage)

**Q17:** AWS services used for distributed or decoupled system architectures are

**A17:** SWF (Simple workflow service) and SQS (Simple Queue Service)

**Q18:** The AWS DNS service that can direct cloudfront traffic to the ELB is known as

**A18:** Route 53

**Q19:** By default, data stored in Kinesis is stored for

**A19:** 24 hours

**Q20:** Security groups operate at the \_\_\_\_\_ layer

**A20:** instance

**Q21:** SNS can send alerts to

**A21:** SQS ,Email, Email-json, SMS, HTTPS, HTTP, Application

**Q22:** Regions are made up of independent data centers in a specific geographic region connected via low-latency connections. These data centers are known as

**A22:** Availability Zones (AZ)

**Q23:** Users created in IAM will work across...

**A23:** All Regions

**Q24:** By default you can have \_\_\_\_ VPCs per region

**A24:** 5

**Q25:** The default number of Cloudformation stacks

**A25:** 20

**Q26:** Data from Kinesis can be exported to

**A26:** S3, EMR, Redshift and Lambda

**Q27:** SQS polling method that reduces API costs

**A27:** Long polling

**Q28:** VPN stands for

**A28:** Virtual Private Network

**Q29:** AWS direct connect does NOT run over

**A29:** The open internet

**Q30:** The amount of data loss that is acceptable in a DR scenario

**A30:** RPO (Recovery Point Objective)

**Q31:** S3 server side encryption uses

**A31:** AES 256

**Q32:** You can have \_\_\_\_ route tables per region, with \_\_\_\_ routes per table.

**A32:** 200, 50

**Q33:** ElastiCache engines are

**A33:** Memcached and Redis

**Q34:** AWS EMR instances are pre-configured to handle what size data chunks?

**A34:** 64MB or 128MB (128MB by default)

**Q35:** S3 objects can range in size from \_\_\_\_ to \_\_\_\_

**A35:** 0 Bytes to 5TB

**Q36:** To deploy application environments automatically, use

**A36:** Elastic Beanstalk

**Q37:** Instances that offer higher network throughput are

**A37:** EBS instances

**Q38:** On EBS encrypted volumes, encryption actually occurs on

**A38:** The ec2 instance before it is written to the EBS volume

**Q39:** To allow on-prem users to connect to private EC2 instances without a bastion host, use (2)

**A39:** VPN or direct connect

**Q40:** AWS S3 objects may contain

**A40:** user defined information

**Q41:** SQS long polling can range in time from

**A41:** 1 to 20 seconds

**Q42:** EBS backed instances can range in capacity from...

**A42:** 1GB to 16TB

**Q43:** A workflow execution can last up to

**A43:** 1 year

**Q44:** Amazon's CDN platform is known as

**A44:** Cloudfront

**Q45:** High Availability will almost always require the use of...

**A45:** Multiple AWS services

**Q46:** A reserved instance can be purchased for a specific amount of...

**A46:** usage. (50%...75%...100%, etc)

**Q47:** S3 versioning allows for unlimited versions of an object, but you pay for  
**A47:** each version

**Q48:** For all new uploads to S3, if the file is updating or over writing an existing file, it uses \_\_\_\_\_ to sync the changes across all AZs in the region  
**A48:** Eventual consistency

**Q49:** SQS polling where a worker instance uses API calls to query messages for a SPECIFIC amount of time is known as  
**A49:** long polling

**Q50:** You can have \_\_\_\_ security groups per VPC  
**A50:** 500

**Q51:** An AWS datacenter used to deliver content to other parts of the world are called  
**A51:** Edge locations

**Q52:** In Kinesis, 1 shard is equal to  
**A52:** 1 megabyte per second of writing

**Q53:** Before allowing traffic, security groups evaluate \_\_\_\_\_ before allowing traffic  
**A53:** All Rules

**Q54:** The Amazon solution to track and monitor work flows is known as  
**A54:** Simple Workflow Service (SWF)

**Q55:** Amazon can provide a storage device to be utilized for Amazon Import/Export known as  
**A55:** Snowball

**Q56:** SQS polling method that uses API calls to query a subset of servers and returns messages from just those servers  
**A56:** Short polling

**Q57:** EC2-classic does not utilize \_\_\_\_\_ and can be a security issue.  
**A57:** VPCs

**Q58:** By default any instance in the default security group can communicate to any other instance over  
**A58:** Any port or protocol

**Q59:** Elastic MapReduce fires up a cluster of \_\_\_\_\_, giving you access to the \_\_\_\_\_  
**A59:** - EC2 instances  
- Underlying operating system

**Q60:** For SNS, end points can \_\_\_\_\_ to topics, to receive notifications  
**A60:** Subscribe

**Q61:** SQS messages can contain up to \_\_\_\_\_ of text in \_\_\_\_\_ format.

**A61:** 256KB, any

**Q62:** VPC peering can occur between

**A62:** AWS accounts and VPC within the same region

**Q63:** CloudWatch can easily monitor items at the physical host layer (CPU, Disk IOPs, Network connectivity, etc). Perl scripts can be installed to monitor...

**A63:** Disk usage, swap usage, memory usage, and disk available

**Q64:** S3 bucket policies can restrict access based off ?

**A64:** - IP address

- HTTP referrer

**Q65:** When using EMR, if you have unused mappers on an instance, you should consider

**A65:** Changing the input split size

**Q66:** When allowing or denying traffic, Network ACLs evaluate rules in \_\_\_ when allowing or denying traffic

**A66:** Numbered order

**Q67:** S3 bucket names can be repeated, as long as...

**A67:** Never - they cannot be repeated and must be unique across all regions

**Q68:** S3 buckets and objects are \_\_\_\_\_ by default (security)

**A68:** Private

**Q69:** S3 can automatically "backup" files by enabling

**A69:** Versioning

**Q70:** S3 charges per \_\_\_\_\_ and when data is \_\_\_\_\_

**A70:** Gig, sent out of the region

**Q71:** What object cannot be assigned an API key?

**A71:** Role

**Q72:** DynamoDB is a fully managed \_\_\_\_\_ service

**A72:** NoSQL

**Q73:** S3 can act as an origin to \_\_\_\_\_

**A73:** Cloudfront

**Q74:** AWS automatically recognizes an object has been lost in RRS and sends an \_\_\_\_\_ notification

**A74:** RRSEObjectLost

**Q75:** Data transferred over direct connect is billed at a

**A75:** lower rate

**Q76:** Scaling out resources on scheduled events such as black Friday sales is known as...

**A76:** Proactive event-based scaling

**Q77:** A customer gateway acts as a connector on what side of the VPN tunnel?

**A77:** the on-prem side

**Q78:** EBS encryption utilizes the AWS key management service. Volume encryption cannot be enabled on instances smaller than

**A78:** M3

**Q79:** An instance purchased when the amount of usage is known or an instance that is needed 100% of the time is known as a

**A79:** Reserved instance

**Q80:** EBS volume snapshots are LISTED in

**A80:** EC2

**Q81:** RDS Instance Step 3 includes Instance specifications and other settings such as

**A81:** DB engine, license model, engine version, Instance type, multi-AZ deployment, storage type, DB Instance identifier, master username and password

**Q82:** NACLs do not automatically route return traffic, they are

**A82:** stateless

**Q83:** The default number of security groups per VPC?

**A83:** 100

**Q84:** SQS does not guarantee the \_\_\_\_\_ of messages

**A84:** Order

**Q85:** CloudWatch for RDS instances can monitor hardware AND...

**A85:** Software metrics

**Q86:** AWS are grouped in what categories?

**A86:** -Compute and Networking

-Storage and Content Delivery

-Database services

-Analytics

-App Services

-Deployment Services

-Management Services

**Q87:** IAM can define resource level and \_\_\_\_ call permissions

**A87:** API

**Q88:** EBS backed instances cannot be attached to instances across

**A88:** Different AZ's

**Q89:** Setting up an Amazon Storage Gateway in your datacenter to cache frequently accessed objects from S3 and upload saved objects to S3 is known as a

**A89:** Gateway-cached volume

**Q90:** You \_\_\_\_ change the security group of an EC2-classic instance

**A90:** CANNOT. You would have to create an AMI of the instance, started a new one in the new group.

**Q91:** VPG stands for

**A91:** Virtual Private Gateway

**Q92:** A subnet can only exist in

**A92:** a single AZ

**Q93:** Kinesis' real-time analytics replaces

**A93:** Batch processing

**Q94:** SQS is highly available and scalable and can spin up worker processes running on

**A94:** EC2 instances

**Q95:** If an EMR cluster does not have any unused mappers, but has more chunk files in the queue

**A95:** Consider adding more task nodes to the cluster

**Q96:** You can have \_\_\_\_ rules per security group

**A96:** 50

**Q97:** Auto Scaling, Route 53, AZ's and multiple regions enable systems in AWS to be...

**A97:** Fault tolerant

**Q98:** S3 can serve static HTML files utilizing

**A98:** Route 53

**Q99:** In an EMR cluster, the node that processes the data and stores it on HDFS or S3 is the

**A99:** Core node

**Q100:** In S3, all regions now provide immediate availability for \_\_\_\_ of new objects

**A100:** PUTS

**Q101:** AWS archival storage is

**A101:** Glacier

**Q102:** Generally, an EC2 instance known as a \_\_\_\_\_ instance will poll an SQS queue to retrieve messages

**A102:** Worker

**Q103:** Each EC2 network interface can have up to \_\_\_\_ security groups assigned to it.

**A103:** 5

**Q104:** Instances you can bid on that have been previously purchased but are currently unused are known as

**A104:** Spot instances

**Q105:** Creating a VPC costs...

**A105:** Nothing

**Q106:** Each security group can have up to \_\_\_\_\_ rules

**A106:** 50

**Q107:** Messages can live in a message queue for

**A107:** 14 days

**Q108:** Use AWS Kinesis for

**A108:** Real-time data analytics

**Q109:** S3 signed URLs use a signed key or certificate that can \_\_\_\_\_ after a set amount of time

**A109:** Expire

**Q110:** For DR, creating a minimal version of your environment in AWS that will scale out when a disaster occurs is referred to as

**A110:** Pilot Light

**Q111:** NACL operates at the \_\_\_\_\_ layer

**A111:** Network or subnet

**Q112:** Ephemeral data is stored on

**A112:** Instance-store volume

**Q113:** EBS volume snapshots are stored on

**A113:** S3 volumes

**Q114:** To easily connect on-premise MS AD with AD connector, use

**A114:** Directory Services

**Q115:** SQS guarantees the delivery of each message \_\_\_\_\_

**A115:** Once

**Q116:** In an EMR cluster, the node that provides information about the data, where it is coming from and where it should go is the

**A116:** Master node

**Q117:** What logs all API calls to AWS

**A117:** Cloud Trail

**Q118:** Multiple components that can process information without being connected

**A118:** Decoupled or loosely coupled system



**Q119:** The tool that allows you to code your infrastructure or deployments off of a pre-built template is  
**A119:** CloudFormation

**Q120:** An EC2 virtual server is known as an...  
**A120:** Instance

**Q121:** S3 event notifications can be sent to  
**A121:** SNS, Lambda, SQS

**Q122:** Objects checked in and out of glacier can take  
**A122:** Hours

**Q123:** The time period that normal (or specified) operations are expected to return to after a disaster is called  
**A123:** RTO (Recovery Time Objective)

**Q124:** Physically sending data on a drive to Amazon for storage on an S3, EBS or Glacier volume is known as  
**A124:** Amazon import/export

**Q125:** Scaling based off of CPU or network utilization is known as...  
**A125:** Auto-scaling. AKA Horizontal scaling. But it takes a few minutes to recognize the need is there

**Q126:** Centralized logging, performance metrics and monitoring is performed by  
**A126:** Cloud Watch

**Q127:** An Amazon storage gateway implementation where all data is stored and access locally and the data is periodically synced to S3 is known as a  
**A127:** Gateway-stored volume

**Q128:** An AMI that has network attached storage that utilizes S3 is known as an  
**A128:** EBS backed instance (Elastic Block Store)

**Q129:** NACLs support what kind of rules  
**A129:** Allow AND deny

**Q130:** S3 buckets may contain sub \_\_\_\_\_ which act like \_\_\_\_\_  
**A130:** - sub name spaces  
- folders

**Q131:** The service that can publish iOS and Android notifications  
**A131:** SNS (Simple Notification Service)

**Q132:** SQS polling type that returns all messages in a poll  
**A132:** Long polling

**Q133:** Spot instances should be used for

**A133:** Non production applications. AWS can take these instances back if the resources are needed

**Q134:** In EMR, the node that processes the data and sends it back to the core node for storage on HDFS or S3 is the

**A134:** Task node

**Q135:** For DR, what type of AWS setup has a footprint large enough to run business critical applications in standby mode and could also be used as a testing area for applications

**A135:** Warm Standby

**Q136:** For DR, a clone of production environment that is either on-premise or in the cloud that is running in an active-active configuration is called a

**A136:** Multi-Site configuration

**Q137:** Kinesis continuously synchronizes data across how many AZs?

**A137:** 3

**Q138:** RDS instance creation Step 4 allows you to configure advanced settings such as

**A138:** Network and security options like VPC, subnet group, public accessibility, AZ, VPC security groups and Database options like DB name, port, parameter group, option group, encryption

**Q139:** EBS volumes for low performance or infrequently access data and offering 1GiB to 1024GiB volumes are

**A139:** Magnetic

**Q140:** What command is run to retrieve user data from an AMI

**A140:** curl http://169.254.169.254/latest/user-data/

**Q141:** High intensive memory applications should be run in

**A141:** R2 instances

**Q142:** Provisioned IOPS EBS volumes offer volume sizes of \_\_\_\_\_ up to \_\_\_\_\_

**A142:** 4GiB to 16TiB

**Q143:** Auto scaling can be applied to SQS based on the size of a \_\_\_\_\_ to increase the number of worker instances that can process messages

**A143:** Queue

**Q144:** How many buckets can be created in one AWS account?

**A144:** 100

**Q145:** By default you have \_\_\_\_ internet gateways

**A145:** 5 - the same number of VPCs

**Q146:** Data transfers out of a region incurs...

**A146:** A cost

**Q147:** Query strings reduce

**A147:** Cache "hits"

**Q148:** To connect local data center devices to AWS storage, you would need to setup an

**A148:** Amazon Storage Gateway

**Q149:** Data transfer from S3 to an EC2 instance in the same region costs...

**A149:** Nothing

**Q150:** S3 objects are static files that contain

**A150:** Metadata

**Q151:** What allows for isolation of resources in the cloud?

**A151:** VPC (Virtual Private Cloud)

**Q152:** EMR launches EC2 instances with \_\_\_\_\_ pre-loaded

**A152:** Hadoop

**Q153:** By default you are allowed \_\_\_\_ elastic IP addresses

**A153:** 5

**Q154:** The S3 feature that allows for uploading part of a file concurrently is....

**A154:** Multipart upload

**Q155:** SWF can track tasks that lasts up to

**A155:** 1 year

**Q156:** Scaling out during known peak periods is known as...

**A156:** Proactive Cycle Scaling

**Q157:** S3 sends an Object Created event notification when what four APIs are called?

**A157:** Put, Post, Copy, CompleteMultiPartUpload

**Q158:** The AWS service that allows for decoupling queue management is known as

**A158:** SQS (Simple Queue Service)

**Q159:** CloudFormation template names must be

**A159:** Unique

**Q160:** The EBS volume type that is best for dev/test and offers 3 IOPS/GiB

**A160:** General Purpose SSD

**Q161:** S3 buckets with versioning can automatically remove or archive objects by enabling

**A161:** Lifecycle Policies

**Q162:** IAM can integrate with \_\_\_\_\_ providers such as AD for SSO

**A162:** SAML

**Q163:** EBS volumes can be provisioned for up to \_\_\_\_\_ IOPs for consistent performance

**A163:** 20000

**Q164:** Objects uploaded to S3 are automatically copied to

**A164:** other AZs in the region

**Q165:** RDS instances are fully managed and allow AWS to manage the

**A165:** Underlying operating system.

**Q166:** We can use SNS to \_\_\_\_\_ notifications of events that occur

**A166:** Receive

**Q167:** Security groups support what kind of rules

**A167:** Allow only. By default security groups don't allow anything.

**Q168:** You can have \_\_\_\_ security groups per network interface

**A168:** 5

**Q169:** AWS feature that evenly distributes traffic to EC2 instances is known as

**A169:** Elastic Load Balancer (ELB).

**Q170:** S3 object metadata contains AWS information such as

**A170:** storage type

**Q171:** Instances spun-up when needed and destroyed when not needed are known as...

**A171:** On-demand instances

**Q172:** General Purpose SSD EBS volumes can have volume sizes of \_\_\_\_\_ to \_\_\_\_\_

**A172:** 1 GiB to 16TB

**Q173:** Security groups belong to a \_\_\_\_\_ ?

**A173:** VPC

**Q174:** Roles do not have \_\_\_\_ credentials

**A174:** API

**Q175:** A direct network route between VPCs is known as

**A175:** VPC peering

**Q176:** If workflows require high processing, \_\_\_\_\_ can be spun up

**A176:** EC2 instances

**Q177:** Burstable performance instances are

**A177:** T2 instances

**Q178:** Network attached storage that remain persistent throughout the life of the EC2 instance, even if it is rebooted or shutdown

**A178:** EBS backed volumes

**Q179:** In SNS, what a message is sent to

**A179:** Topic

**Q180:** A fully managed DB solution from AWS that is a home-grown implementation of MongoDB is

**A180:** DynamoDB

**Q181:** You cannot perform \_\_\_\_\_ on your own instances inside of your VPC

**A181:** Port scanning

**Q182:** A system architecture where systems are linked together and are dependent on each other

**A182:** Tightly-coupled system

**Q183:** SQS allows for the creation of \_\_\_\_\_ or \_\_\_\_\_ application components

**A183:** distributed / decoupled

**Q184:** Resources can be shared between VPCs in the same region by using

**A184:** VPC peering

**Q185:** An AMI role can only be assigned/assumed by an EC2 instance when?

**A185:** it is first created

**Q186:** Elastic Beanstalk integrates with

**A186:** ELB, Auto Scaling, EC2, and more

**Q187:** Manage permissions to AWS resources in

**A187:** IAM (Identity Access Management)

**Q188:** RDS supports 5 database types

**A188:** MySQL, PostgreSQL, Oracle, SQL (MS SQL), Aurora

**Q189:** CloudFormation scripts deployments in

**A189:** JSON

**Q190:** To integrate with Hadoop's big-data analytics, what Amazon Hadoop clustering tool is used?

**A190:** Elastic MapReduce

**Q191:** CloudInit system runs at \_\_\_\_\_ creation time, NOT at \_\_\_\_\_ start time.

**A191:** - instance  
start

**Q192:** By default you can have \_\_\_\_\_ customer gateways and \_\_\_\_\_ VPNs per region

**A192:** 50, 50

**Q193:** EBS volume type that is for mission critical applications

**A193:** Provisioned IOPS

**Q194:** Default RDS database port

**A194:** 3306

**Q195:** The precursor of EBS volumes are

**A195:** Instance-store volumes

**Q196:** EC2 instances can be made up of different...

**A196:** Instance type and sizes depending on the number of CPU's and amount of memory.

**Q197:** The AWS object storage service is known as

**A197:** S3 (Simple Storage Service)

**Q198:** WEB app SSL certs should be applied to the

**A198:** ELB

**Q199:** Amazon's petabyte scale data warehouse service is

**A199:** Amazon Redshift