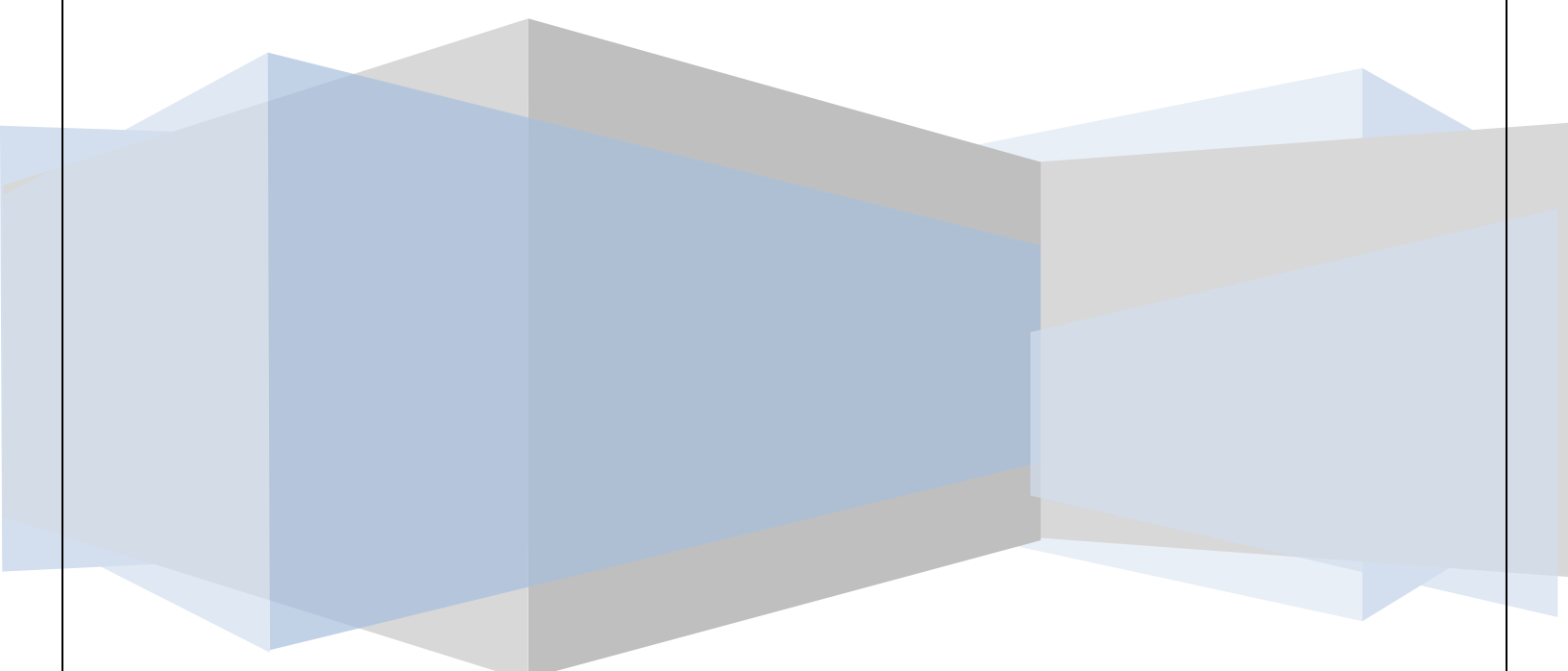


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AWS Cloud Training

AWS CSA SAMPLE QUESTIONS



1. You have an Amazon Virtual Private Cloud(VPC) with a public subnet. Three Amazon Elastic Compute Cloud(EC2) instances currently running inside the subnet can successfully communicate with other hosts on the internet. You launch a fourth instance in the same subnet, using the same Amazon Machine Image(AMI) and security group configuration you used for the others, but find that this instance cannot be accessed from the Internet. What should you do to enable Internet access?
 - A. Deploy a NAT instance into the public subnet.
 - B. Configure a publically routable IP Address in the host OS of the fourth instance.
 - C. Assign an elastic IP address to the fourth instance.
 - D. Modify the routing table for the public subnet.
2. What combination of the following options will protect Amazon Simple Storage Service (S3) objects from both accidental deletion and accidental overwriting? Choose 2 answers
 - A. Enable S3 versioning on the bucket.
 - B. Access S3 data using only signed URLs.
 - C. Disable S3 delete using an IAM bucket policy.
 - D. Enable S3 Reduced Redundancy Storage.
 - E. Enable multi-factor authentication (MFA) protected access.
3. Amazon Glacier is designed for: (Choose 2 answers)
 - A. active database storage.
 - B. infrequently accessed data.
 - C. data archives.
 - D. frequently accessed data.
 - E. cached session data.

4. Your web application front end consists of multiple EC2 instances behind an Elastic Load Balancer. You configured ELB to perform health checks on these EC2 instances. If an instance fails to pass health checks, which statement will be true?
 - A. The instance is replaced automatically by the ELB.
 - B. The instance gets terminated automatically by the ELB.
 - C. The ELB stops sending traffic to the instance that failed its health check.
 - D. The instance gets quarantined by the ELB for root cause analysis.

5. You are building a system to distribute confidential training videos to employees. Using CloudFront, what method could be used to serve content that is stored in S3, but not publicly accessible from S3 directly?
 - A. Create an Origin Access Identity (OAI) for CloudFront and grant access to the objects in your S3 bucket to that OAI.
 - B. Add the CloudFront account security group "amazon-cf/amazon-cf-sg" to the appropriate S3 bucket policy.
 - C. Create an Identity and Access Management (IAM) User for CloudFront and grant access to the objects in your S3 bucket to that IAM User.
 - D. Create a S3 bucket policy that lists the CloudFront distribution ID as the Principal and the target bucket as the Amazon Resource Name (ARN).

6. Which of the following will occur when an EC2 instance in a VPC with an associated Elastic IP is stopped and started? (Choose 2 answers)
 - A. The Elastic IP will be dissociated from the instance
 - B. All data on instance-store devices will be lost
 - C. All data on EBS (Elastic Block Store) devices will be lost
 - D. The ENI (Elastic Network Interface) is detached
 - E. The underlying host for the instance is changed

7. Which is an operational process performed by AWS for data security?
 - A. AES-256 encryption of data stored on any shared storage device
 - B. Decommissioning of storage devices using industry-standard practices
 - C. Background virus scans of EBS volumes and EBS snapshots

- D. Replication of data across multiple AWS Regions
 - E. Secure wiping of EBS data when an EBS volume is unmounted
8. You have been tasked with creating a VPC network topology for your company. The VPC network must support both Internet-facing applications and internally-facing applications accessed only over VPN. Both Internet-facing and internally facing applications must be able to leverage at least three AZs for high availability. At a minimum, how many subnets must you create within your VPC to accommodate these requirements?
- A. 2
 - B. 3
 - C. 4
 - D. 6
9. You receive a Spot Instance at a bid of \$0.05/hr. After 30 minutes, the Spot Price increases to \$0.06/hr and your Spot Instance is terminated by AWS. What was the total EC2 compute cost of running your Spot Instance?
- A. \$0.00
 - B. \$0.02
 - C. \$0.03
 - D. \$0.05
 - E. \$0.06
10. You are developing a highly available web application using stateless web servers. Which services are suitable for storing session state data? Choose 3 answers
- A. Amazon CloudWatch
 - B. Amazon Relational Database Service(RDS)
 - C. Elastic Load Balancing
 - D. Amazon ElastiCache
 - E. AWS Storage Gateway
 - F. Amazon DynamoDB
11. You have a business-critical two-tier web app currently deployed in two AZs in a single region, using Elastic Load Balancing and Auto Scaling. The app depends on synchronous replication (very low latency connectivity) at the database layer. The application needs to remain fully available even if one application AZ goes off-line, and Auto Scaling cannot launch new instances in the remaining Availability Zones. How can the current architecture be enhanced to ensure this?

- A. Deploy in two regions using Weighted Round Robin (WRR), with Auto Scaling minimums set for 50 percent peak load per Region.
 - B. Deploy in two regions using Weighted Round Robin (WRR), with Auto Scaling minimums set for 100 percent peak load per region.
 - C. Deploy in three Availability Zones, with Auto Scaling minimum set to handle 50 percent peak load per zone.
 - D. Deploy in three Availability Zones, with Auto Scaling minimum set to handle 33 percent peak load per zone.
12. You are deploying an application on EC2 that must call AWS APIs. What method of securely passing credentials to the application should you use?
- A. Use AWS Identity and Access Management roles for EC2 instances.
 - B. Pass API credentials to the instance using instance user data.
 - C. Embed the API credentials into your JAR files.
 - D. Store API credentials as an object in Amazon Simple Storage Service.
13. Which route must be added to your routing table in order to allow connections to the Internet from your subnet?
- A. Destination: 0.0.0.0/0 --> Target: your Internet gateway
 - B. Destination: 192.168.1.255/0 --> Target: your Internet gateway
 - C. Destination: 0.0.0.0/33 --> Target: your virtual private gateway
 - D. Destination: 0.0.0.0/0 --> Target: 0.0.0.0/24
 - E. Destination: 10.0.0.0/32 --> Target: your virtual private gateway
14. You have an VPC with a public subnet. Three EC2 instances currently running inside the subnet can successfully communicate with other hosts on the internet. You launch a fourth instance in the same subnet, using the same AMI and security group configuration you used for the others, but find that this instance cannot be accessed from the Internet. What should you do to enable Internet access?
- A. Deploy a NAT instance into the public subnet.
 - B. Modify the routing table for the public subnet.
 - C. Assign an elastic IP address to the fourth instance.
 - D. Configure a publicly routable IP address in the host OS of the fourth instance.
15. Which of the following requires a custom CloudWatch metric to monitor?
- A. Memory use

- B. CPU use
- C. Disk read operations
- D. Network in
- E. Estimated charges

16. Which of the following is a durable key value store?

- A. Amazon Simple Storage Service
- B. Amazon Simple Workflow Service
- C. Amazon Simple Queue Service
- D. Amazon Simple Notification Service

17. After creating a new AWS account, you use the API to request 40 on-demand EC2 instances in a single AZ. After 20 successful requests, subsequent requests failed. What could be a reason for this issue, and how would you resolve it?

- A. You encountered a soft limit of 20 instances per region. Submit the limit increase form and retry the failed requests once approved.
- B. AWS allows you to provision no more than 20 instances per Availability Zone. Select a different Availability Zone and retry the failed request.
- C. You need to use Amazon Virtual Private Cloud (VPC) in order to provision more than 20 instances in a single Availability Zone. Simply terminate the resources already provisioned and re-launch them all in a VPC.
- D. You encountered an API throttling situation and should try the failed requests using an exponential decay retry algorithm.

18. You have an application running in us-west-2 that requires six EC2 instances running at all times. With three AZs available in that region (us-west-2a, us-west-2b, and us-west-2c), which of the following deployments provides 100 percent fault tolerance if any single AZ in us-west-2 becomes unavailable? Choose 2 answers

- A. Us-west-2a with two EC2 instances, us-west-2b with two EC2 instances, and us-west-2c with two EC2 instances
- B. Us-west-2a with three EC2 instances, us-west-2b with three EC2 instances, and us-west-2c with no EC2 instances
- C. Us-west-2a with four EC2 instances, us-west-2b with two EC2 instances, and us-west-2c with two EC2 instances

- D. Us-west-2a with six EC2 instances, us-west-2b with six EC2 instances, and us-west-2c with no EC2 instances
- E. Us-west-2a with three EC2 instances, us-west-2b with three EC2 instances, and us-west-2c with three EC2 instances

19. What action is required to establish a VPC VPN connection between an on premises data center and an Amazon VPC virtual private gateway?

- A. Modify the main route table to allow traffic to a network address translation instance.
- B. Use a dedicated network address translation instance in the public subnet.
- C. Assign a static Internet-routable IP address to an Amazon VPC customer gateway.
- D. Establish a dedicated networking connection using AWS Direct Connect.

20. A startup company hired you to help them build a mobile application, that will ultimately store billions of images and videos in S3. The company is lean on funding, and wants to minimize operational costs, however, they have an aggressive marketing plan, and expect to double their current installation base every six months. Due to the nature of their business, they are expecting sudden and large increases in traffic to and from S3, and need to ensure that it can handle the performance needs of their application. What other information must you gather from this customer in order to determine whether S3 is the right option?

- A. You must know how many customers the company has today, because this is critical in understanding what their customer base will be in two years.
- B. You must find out the total number of requests per second at peak usage.
- C. You must know the size of the individual objects being written to S3, in order to properly design the key namespace.
- D. In order to build the key namespace correctly, you must understand the total amount of storage needs for each S3 bucket.

21. You have an EC2 security group with several running EC2 instances. You change the security group rules to allow inbound traffic on a new port and

protocol, and launch several new instances in the same security group. The new rules apply:

- A. Immediately to all instances in the security group.
- B. Immediately to the new instances only.
- C. Immediately to the new instances, but old instances must be stopped and restarted before the new rules apply.
- D. To all instances, but it may take several minutes for old instances to see the changes.

22.A VPC public subnet is one that:

- A. Has at least one route in its associated routing table that uses an Internet Gateway (IGW).
- B. Includes a route in its associated routing table via a Network Address Translation (NAT) instance.
- C. Has a Network Access Control List (NACL) permitting outbound traffic to 0.0.0.0/0.
- D. Has the Public Subnet option selected in its configuration?

23.In reviewing the Auto Scaling events for your application you notice that your application is scaling up and down multiple times in the same hour. What design choice could you make to optimize for cost while preserving elasticity? Choose 2 answers

- A. Modify the Auto Scaling policy to use scheduled scaling actions
- B. Modify the Auto Scaling group termination policy to terminate the oldest instance first.
- C. Modify the Auto Scaling group cooldown timers.
- D. Modify the Amazon CloudWatch alarm period that triggers your Auto Scaling scale down policy.
- E. Modify the Auto Scaling group termination policy to terminate the newest instance first.

24.You must assign each server to at least _____ security group

- A. 3
- B. 2
- C. 4
- D. 1

25. Before I delete an EBS volume, what can I do if I want to recreate the volume later?
- A. Create a copy of the EBS volume (not a snapshot)
 - B. Store a snapshot of the volume
 - C. Download the content to an EC2 instance
 - D. Back up the data in to a physical disk
26. Select the most correct answer: The device name /dev/sda1 (within Amazon EC2) is _____
- A. Possible for EBS volumes
 - B. Reserved for the root device
 - C. Recommended for EBS volumes
 - D. Recommended for instance store volumes
27. If I want an instance to have a public IP address, which IP address should I use?
- A. Elastic IP Address
 - B. Class B IP Address
 - C. Class A IP Address
 - D. Dynamic IP Address
28. How can software determine the public and private IP addresses of the Amazon Elastic Cloud compute instance that it is running on?
- A. Query the appropriate Amazon CloudWatch metric.
 - B. Use an ipconfig or ifconfig command.
 - C. Query the local instance metadata.
 - D. Query the local instance userdata.
29. What does RRS stand for when talking about S3?
- A. Redundancy Removal System
 - B. Relational Rights Storage
 - C. Regional Rights Standard
 - D. Reduced Redundancy Storage
30. All Amazon EC2 instances are assigned two IP addresses at launch, out of which one can only be reached from within the Amazon EC2 network?
- A. Multiple IP address

- B. Public IP address
- C. Private IP address
- D. Elastic IP Address

31. What is the Reduced Redundancy option in Amazon S3?

- A. Less redundancy for a lower cost.
- B. It doesn't exist in Amazon S3, but in Amazon EBS.
- C. It allows you to destroy any copy of your files outside a specific jurisdiction.
- D. It doesn't exist at all

32. Fill in the blanks: Resources that are created in AWS are identified by a unique identifier called an _____

- A. Amazon Resource Number
- B. Amazon Resource Nametag
- C. Amazon Resource Name
- D. Amazon Resource Namespace

33. While creating an Amazon RDS DB, your first task is to set up a DB _____ that controls what IP addresses or EC2 instances have access to your DB Instance.

- A. Security Pool
- B. Secure Zone
- C. Security Token Pool
- D. Security Group

34. When you run a DB Instance as a MultiAZ deployment, the "_____" serves database writes and reads

- A. secondary
- B. backup
- C. standby
- D. primary

35. Every user you create in the IAM system starts with _____.

- A. partial permissions
- B. full permissions
- C. no permissions

36. Can you create IAM security credentials for existing users?

- A. Yes, existing users can have security credentials associated with their account.
- B. No, IAM requires that all users who have credentials set up are not existing users
- C. No, security credentials are created within GRO UPS, and then users are associated to GRO UPS at a later time.
- D. Yes, but only IAM credentials, not ordinary security credentials.

37. What does Amazon EC2 provide?

- A. Virtual servers in the Cloud.
- B. A platform to run code (Java, PHP, Python), paying on an hourly basis.
- C. Computer Clusters in the Cloud.
- D. Physical servers, remotely managed by the customer.

38. Can I control if and when MySQL based RDS Instance is upgraded to new supported versions?

- A. No
- B. Only in VPC
- C. Yes

39. If I modify a DB Instance or the DB parameter group associated with the instance, should I reboot the instance for the changes to take effect?

- A. No
- B. Yes

40. When you view the block device mapping for your instance, you can see only the EBS volumes, not the instance store volumes.

- A. Depends on the instance type
- B. FALSE
- C. Depends on whether you use API call
- D. TRUE

41. What does Amazon Elastic Beanstalk provide?

- A. A scalable storage appliance on top of Amazon Web Services.
- B. An application container on top of Amazon Web Services.
- C. A service by this name doesn't exist.
- D. A scalable cluster of EC2 instances.

42. True or False: When using IAM to control access to your RDS resources, the key names that can be used are case sensitive. For example, aws:CurrentTime is NOT equivalent to AWS:currenttime.
- A. TRUE
 - B. FALSE
43. What will be the status of the snapshot until the snapshot is complete?
- A. running
 - B. working
 - C. progressing
 - D. pending
44. Can we attach an EBS volume to more than one EC2 instance at the same time?
- A. No
 - B. Yes.
 - C. Only EC2 optimized EBS volumes.
 - D. Only in read mode.
45. True or False: Automated backups are enabled by default for a new DB Instance.
- A. TRUE
 - B. FALSE
46. What does the AWS Storage Gateway provide?
- A. It allows to integrate on premises IT environments with Cloud Storage.
 - B. A direct encrypted connection to Amazon S3.
 - C. It's a backup solution that provides an on premises Cloud storage.
 - D. It provides an encrypted SSL endpoint for backups in the Cloud.
47. Amazon RDS automated backups and DB Snapshots are currently supported for only the _____ storage engine
- A. InnoDB
 - B. MyISAM
48. How many relational database engines does RDS currently support?
- A. Three: MySQL, Oracle and Microsoft SQL Server.
 - B. Just two: MySQL and Oracle.
 - C. Five: MySQL, PostgreSQL, MongoDB, Cassandra and SQLite.
 - D. Just one: MySQL.

49.Fill in the blanks: The base URI for all requests for instance metadata is

- _____
- A. <http://254.169.169.254/latest/>
 - B. <http://169.169.254.254/latest/>
 - C. <http://127.0.0.1/latest/>
 - D. <http://169.254.169.254/latest/>

50.What are the two permission types used by AWS?

- A. Resource based and Product based
- B. Product based and Service based
- C. Service based
- D. User based and Resource based

51.In the Amazon cloudwatch, which metric should I be checking to ensure that your DB Instance has enough free storage space?

- A. FreeStorage
- B. FreeStorageSpace
- C. FreeStorageVolume
- D. FreeDBStorageSpace

52.Amazon RDS DB snapshots and automated backups are stored in

- A. Amazon S3
- B. Amazon ECS Volume
- C. Amazon RDS
- D. Amazon EMR

53.What is the maximum key length of a tag?

- A. 512 Unicode characters
- B. 64 Unicode characters
- C. 256 Unicode characters
- D. 128 Unicode characters

54.Changes to the backup window take effect _____.

- A. from the next billing cycle
- B. after 30 minutes
- C. immediately
- D. after 24 hours

55. Using Amazon CloudWatch's Free Tier, what is the frequency of metric updates which you receive?
- A. 5 minutes
 - B. 500 milliseconds.
 - C. 30 seconds
 - D. 1 minute
56. EBS Snapshots occur _____
- A. Asynchronously
 - B. Synchronously
 - C. Weekly
57. Disabling automated backups _____ disable the point in time recovery.
- A. if configured to can
 - B. will never
 - C. will
58. Out of the stripping options available for the EBS volumes, which one has the following disadvantage: 'Doubles the amount of I/O required from the instance to EBS compared to RAID 0, because you're mirroring all writes to a pair of volumes, limiting how much you can stripe.'?
- A. Raid 0
 - B. RAID 1+0 (RAID 10)
 - C. Raid 1
 - D. Raid 2
59. Can Amazon S3 uploads resume on failure or do they need to restart?
- A. Restart from beginning
 - B. You can resume them, if you flag the "resume on failure" option before uploading.
 - C. Resume on failure
60. Which of the following cannot be used in Amazon EC2 to control who has access to specific Amazon EC2 instances?
- A. Security Groups
 - B. IAM System
 - C. SSH keys
 - D. Windows passwords

- 61.Fill in the blanks: _____ let you categorize your EC2 resources in different ways, for example, by purpose, owner, or environment.
- A. wildcards
 - B. pointers
 - C. Tags
 - D. special filters
- 62.How can I change the security group membership for interfaces owned by other AWS, such as Elastic Load Balancing?
- A. By using the service specific console or API\CLI commands
 - B. None of these
 - C. Using Amazon EC2 API/CLI
 - D. using all these methods
- 63.What is the maximum write throughput I can provision for a single DynamoDB table?
- A. 1,000 write capacity units
 - B. 100,000 write capacity units
 - C. DynamoDB is designed to scale without limits, but if you go beyond 10,000 you have to contact AWS first
 - D. 10,000 write capacity units
- 64.Can I move a Reserved Instance from one Region to another?
- A. No
 - B. Only if they are moving into GovCloud
 - C. Yes
 - D. Only if they are moving to US East from another region
- 65.What is Amazon Glacier?
- A. You mean Amazon "Iceberg": it's a low cost storage service.
 - B. A security tool that allows to "freeze" an EBS volume and perform computer forensics on it.
 - C. Low cost storage service that provides secure and durable storage for data archiving and backup.
 - D. It's a security tool that allows to "freeze" an EC2 instance and perform computer forensics on it.
- 66.What is the durability of S3 RRS?

- A. 99.99%
- B. 99.95%
- C. 99.995%
- D. 99.999999999%

67. What does specifying the mapping `/dev/sdc=none` when launching an instance do?

- A. Prevents `/dev/sdc` from creating the instance.
- B. Prevents `/dev/sdc` from deleting the instance.
- C. Set the value of `/dev/sdc` to 'zero'.
- D. Prevents `/dev/sdc` from attaching to the instance.

68. True or False: When you perform a restore operation to a point in time or from a DB Snapshot, a new DB Instance is created with a new endpoint.

- A. FALSE
- B. TRUE

69. A/An _____ acts as a firewall that controls the traffic allowed to reach one or more instances.

- A. security group
- B. ACL
- C. IAM
- D. Private IP Addresses

70. Will my standby RDS instance be in the same Availability Zone as my primary?

- A. Only for Oracle RDS types
- B. Yes
- C. Only if configured at launch
- D. No

71. What happens to the data on an instance if the instance reboots (intentionally or unintentionally)?

- A. Data will be lost
- B. Data persists
- C. Data may persist however cannot be sure

72. IAM provides several policy templates you can use to automatically assign permissions to the groups you create. The _____ policy template gives the

Admins group permission to access all account resources, except your AWS account information

- A. Read Only Access
- B. Power User Access
- C. AWS CloudFormation Read Only Access
- D. Administrator Access

73. Can Amazon S3 uploads resume on failure or do they need to restart?

- A. Resume on failure
- B. You can resume them, if you flag the "resume on failure" option before uploading.
- C. Restart from beginning
- D. This question doesn't make sense

74. While performing the volume status checks, if the status is insufficient data, what does it mean?

- A. the checks may still be in progress on the volume
- B. the check has passed
- C. the check has failed

75. Are Reserved Instances available for MultiAZ Deployments?

- A. Only for Cluster Compute instances
- B. Yes, for all instance types
- C. Only for M3 instance types
- D. No

76. Which Amazon Storage behaves like raw, unformatted, external block devices that you can attach to your instances?

- A. None of these.
- B. Amazon Instance Storage
- C. Amazon EBS
- D. All of these

77. If you have chosen MultiAZ deployment, in the event of a planned or unplanned outage of your primary DB Instance, Amazon RDS automatically switches to the standby replica. The automatic failover mechanism simply changes the _____ record of the main DB Instance to point to the standby DB Instance.

- A. DNAME
- B. CNAME
- C. TXT

D. MX

78.If I modify a DB Instance or the DB parameter group associated with the instance, should I reboot the instance for the changes to take effect?

- A. TRUE
- B. FALSE

79.What does Amazon CloudFormation provide?

- A. The ability to setup Autoscaling for Amazon EC2 instances.
- B. None of these.
- C. A templated resource creation for Amazon Web Services.
- D. A template to map network resources for Amazon Web Services.

80.What happens when you create a topic on Amazon SNS?

- A. The topic is created, and it has the name you specified for it.
- B. An ARN (Amazon Resource Name) is created.
- C. You can create a topic on Amazon SQS, not on Amazon SNS.
- D. This question doesn't make sense.

81.Can I delete a snapshot of the root device of an EBS volume used by a registered AMI?

- A. Only via API
- B. Only via Console
- C. Yes
- D. No

82.Select the correct set of options. These are the initial settings for the default security group:

- A. Allow no inbound traffic, Allow all outbound traffic and Allow instances associated with this security group to talk to each other
- B. Allow all inbound traffic, Allow no outbound traffic and Allow instances associated with this security group to talk to each other
- C. Allow no inbound traffic, Allow all outbound traffic and Does NOT allow instances associated with this security group to talk to each other
- D. Allow all inbound traffic, Allow all outbound traffic and Does NOT allow instances associated with this security group to talk to each other

- 83.If I want my instance to run on a single tenant hardware, which value do I have to set the instance's tenancy attribute to?
- A. dedicated
 - B. isolated
 - C. one
 - D. reserved
- 84.Your company requires that all the data on your EBS backed EC2 volumes be encrypted. How would you go about doing this? Choose the correct answer:
- A. You cannot enable EBS encryption on the specific volume.
 - B. AWS allows you to encrypt the file system on an EBS volume on EBS volume setup
 - C. Encryption can be done on the OS layer of the EBS volume
 - D. None of the above
- 85.Your company is moving their entire 20TB data warehouse to the cloud. With your current bandwidth it would take 2 months to transfer the data. Which service would allow you to quickly get your data into AWS? Choose the correct answer:
- A. Amazon Direct Connect.
 - B. Amazon S3 MultiPart Upload.
 - C. Amazon S3 Connector.
 - D. Amazon Import/Export
- 86.You are the System Administrator for your company's AWS account of approximately 200 IAM users. A new company policy has just been introduced that will change the access of 50 of the IAM users to have unlimited access to S3 buckets. How can you implement this effectively so that there is no need to apply the policy at the individual user level? Choose the correct answer.
- A. Create a policy and apply it to multiple users using a JSON script
 - B. Create an S3 bucket policy with unlimited access which includes each user's AWS account ID.
 - C. Use the IAM groups and add users as per their role to different groups and apply the policy to group.
 - D. Create a new role and add each user to the IAM role

87. You are planning on creating an EC2 instance that will create S3 objects and modify Cloud Watch alarms. What is the best way to deploy this instance? Choose the correct answer:

- A. Assign an S3 policy and a CloudWatch policy to a single IAM user. Have the instance execute tasks as the IAM user?
- B. Assign an S3 policy to one IAM role and a Cloud Watch policy to another IAM role. Assign both IAM roles to the EC2 instance at deployment time.
- C. Assign an S3 policy to one IAM user and a Cloud Watch policy to another IAM user. Have the instance execute tasks as the appropriate IAM user for the given task.
- D. Assign an S3 policy and a Cloud Watch policy to a single IAM role. Assign the IAM role to the instance at deployment time.

88. You are a consultant tasked with migrating an on premise application architecture to AWS. During your design process you have to give consideration to current on premise security and determine which security attributes you are responsible for on AWS. Which of the follow does AWS provide for you as part of the shared responsibility model? Choose the 2 correct answers:

- A. Physical Network Infrastructure.
- B. User access to the AWS environment.
- C. Instance Security.
- D. Virtualization Infrastructure.

89. You are asked to evaluate a company's AWS environment to find ways to reduce cost. You discover they are running three production web server reserved EC2 instances with EBS-backed root volumes. These instances have a consistent CPU load of 80%. Traffic is being distributed to these instances by an Elastic Load Balancer. They also have production and development Multi-AZ RDS MySQL databases. What recommendation would you make to reduce cost in this environment without affecting availability of mission-critical systems? Choose the correct answer:

- A. Consider not using a Multi-AZ RDS deployment for the development database.
- B. Consider removing the Elastic Load Balancer.
- C. Consider using on-demand instances instead of reserved EC2 instances.
- D. Consider using spot instances instead of reserved EC2 instances.

90.The AMI ID used in an Auto Scaling policy is configured in the _____

Choose the correct answer:

- A. launch configuration.
- B. Auto Scaling Policy.
- C. Auto Scaling group.
- D. group policy

91.What is the minimum size of an S3 object? Choose the correct answer:

- A. 0 Byte
- B. 1TB
- C. 1Byte
- D. 1GB

92.Your AWS environment contains several reserved EC2 instances dedicated to a project that has just been cancelled. Your supervisor wants to stop incurring charges for these reserved instances immediately and recuperate as much of the reserved instance cost as possible. What can you do to avoid being charged for them? Choose the 2 correct answers:

- A. Stop the instances as soon as possible.
- B. Terminate the instances as soon as possible.
- C. Contact AWS and explain the situation.
- D. Sell the reserved instances on the AWS Reserved Instance Marketplace

93.Amazon Auto Scaling is not meant to handle instant load spikes but is built to grow with a gradual increase in usage over a short time period. Choose the correct answer:

- A. True
- B. False

94.Which of the following services allow the administrator access to the underlying operating system? Choose the 2 correct answers:

- A. DynamoDB
- B. Amazon EC2
- C. Amazon RDS
- D. Amazon EMR

95. You recently purchased and deployed four reserved EC2 instances in the US-East-1 region's Availability Zone 1 for a new project. Your supervisor just informed you that this project only requires two EC2 instances. Rather than selling the reserved instances, she asked you to terminate the extra instances and convert two of the on-demand instances already running in Availability Zone 1 to reserved instances. Can this be done? Choose the correct answer:
- A. Yes, you can terminate the on-demand instances and re-deploy them as reserved instances.
 - B. Yes, you can request this billing change through an AWS form.
 - C. Yes, you can terminate the reserved instances and AWS will automatically begin billing the two on-demand instances as reserved instances.
 - D. No, it cannot be done.
96. If an instance, that belongs to an Elastic Load balancer, health check fails; what occurs to the instance that fails? Choose the correct answer:
- A. ELB launches a new healthy instance.
 - B. The ELB will de-register the instance and stop sending traffic to the unhealthy instance.
 - C. The Auto Scaling group will launch a new instance.
 - D. The ELB will continue serving the traffic until the instance is removed.
97. You have been told that you need to set up a bastion host by your manager in the cheapest, most secure way, and that you should be the only person that can access it via SSH. Which of the following setups would satisfy your manager's request? Choose the correct answer
- A. A large EC2 instance and a security group which only allows access on port 22.
 - B. A small EC2 instance and a security group which only allows access on port 22.
 - C. A large EC2 instance and a security group which only allows access on port 22 via your IP address.
 - D. A small EC2 instance and a security group which only allows access on port 22 via your IP address.

98. Your company has an application that requires access to a NoSQL database. Your IT department has no desire to manage the NoSQL servers. Which Amazon Service provides a fully managed and highly available NoSQL service? Choose the correct answer:
- A. Amazon RDS
 - B. SimpleDB
 - C. ElasticMap Reduce
 - D. DynamoDB
99. After building out a new VPC from scratch, you have attached an internet gateway to the only route table within your VPC. This means all instances currently belong to a public subnet. While trying to connect to one of the instances over the internet gateway, you are experiencing connectivity issues preventing any communication from your machine to the instance over the internet. After investigating, you notice that the security group has proper permissions and the route table is currently as follows:
- ```
10.0.0.0/16 local
0.0.0.0/16 igw-xxxx58d8
```
- What might be the issue? Choose the correct answer:
- A. Change the route table Destination for the IGW to be 10.0.0.0/16
  - B. Change the route table Destination for the IGW to be 0.0.0.0/0
  - C. Internet gateway is not attached to the VPC
  - D. The local route needs to be updated to 0.0.0.0/0
100. You're building out an application on AWS that is running within a single region. However, you're designing with disaster recovery in mind. Your intention is to build the application so that if the current region it is running in becomes unavailable, you can failover to another region. Part of your application requires heavily on pre-built AMI's. In order to share those AMI's with the region you're using as a backup, what process would you take? Choose the correct answer.
- A. Copy the AMI from the current region to another region, modify the auto scaling groups in the backup region to use the new AMI id in the backup region
  - B. Modify the image permissions to share the AMI with another account that set the default region to the backup region
  - C. Modify the image permissions to be shared to the designated backup region
  - D. Nothing because all AMI's are available in any region as long as it is created within the same account