1. In AWS what is used for encrypting and decrypting login information to EC2 instances.

A. Templates

B. AMI’s

**C. Key pairs**

D. None of the above

1. You have launched two web servers in private subnet and one ELB (internet facing) in public subnet in your VPC. Yet, you are still unable to access your web application through the internet, which of the following would likely the cause of this? Choose two correct options

A. Web server must be launched inside public subnet and not private subnet.

**B. Route table for public subnet is not configured to route to VPC internet gateway.**

C. No elastic IP is assigned to web servers.

**D. No internet gateway is attached to the VPC. ​**

1. Which of the following is mandatory when defining a cloudformation template?

**A. Resources**

B. Parameters

C. Outputs

D. Mappings​

1. In IAM, what is the representation of a person or service ?

**A. User**

B. Group

C. Team

D. Role ​

1. Which of the below are incremental backups of your EBS volumes? Choose one answer from the options given below.

A. Volumes

B. State Manager

C. Placement Groups

**D. Snapshots**

1. Which of the below elements can you manage in the Billing dashboard ? Select 2 options.

**A. Budgets**

B. Policies

C. Credential Report

**D. Cost Explorer ​**

1. What is the service used by AWS to segregate control over the various AWS services ?

A. AWS RDS

B. AWS Integrity Management

**C. AWS Identity and Access Management**

D. Amazon EMR

1. You working in the media industry and you have created a web application where users will be able to upload photos they create to your website. This web application must be able to call the S3 API in order to be able to function. Where should you store your API credentials whilst maintaining the maximum level of security?

A. Save the API credentials to your php files.

**B. Don’t save your API credentials. Instead create a role in IAM and assign this role to an EC2 instance when you first create it.**

C. Save your API credentials in a public Github repository.

D. Pass API credentials to the instance using instance userdata.

​

1. What are some of the common causes why you cannot connect to a DB instance on AWS ? Select 3 options.

A. There is a read replica being created, hence you cannot connect

**B. The DB is still being created**

**C. The local firewall is stopping the communication traffic**

**D. The security groups for the DB are not properly configured.**

1. Which is the service provided by AWS for providing a petabyte-scale data warehouse ?

A. Amazon DynamoDB

**B. Amazon Redshift**

C. Amazon Kinesis

D. Amazon Simple Queue Service​

1. Which of the below mentioned services are the building blocks for creating a basic high availability architecture in AWS. Select 2 options.

**A. EC2**

B. SQS

**C. Elastic Load Balancer**

D. Cloudwatch

​

1. Which of the following services provides edge locations that can be used to cache frequently accessed pages of a web application

A. SQS

**B. Cloudfront**

C. Subnets

D. EC2​

1. What are the main benefits of AWS regions? Select 2 options.

**A. Regions allow you to design applications to conform to specific laws and regulations for specific parts of the world.**

B. All regions offer the same service at the same prices.

C. Regions allow you to choose a location in any country in the world.

**D. Regions allow you to place AWS resources in the area of the world closest to your customers who access those resources.**

1. Which of the following are ways that users can interface with AWS? Select 2 options.

A. AWS Cloudfront

**B. AWS CLI**

**C. AWS Console**

D. AWS Cloudwatch​

1. Which of the below options best describes how EBS snapshots work?

A. Each snapshot stores the entire volume in S3

B. Snapshots are not possible for EBS volumes

**C. Snapshots are incremental in nature and are stored in S3**

D. Snapshots are stored in DynamoDB

1. You have just provisioned a fleet of EC2 instances and realized that none of them have a public IP address. What settings would need to be changed for the next fleet of instances to be created with public IP addresses?

**A. Modify the auto-assign public IP setting on the subnet.**

B. Modify the auto-assign public IP setting on the instance type.

C. Modify the auto-assign public IP setting on the route table.

D. Modify the auto-assign public IP setting on the VPC.​

1. You work for a company that stores records for a minimum of 10 years. Most of these records will never be accessed but must be made available upon request (within a few hours). What is the most cost-effective storage option?

A. S3-IA

B. Reduced Redundancy Storage (RRS)

**C. Glacier**

D. AWS Import/Export​

1. What are the services from AWS helps to migrate databases to AWS easily ?

A. AWS Snowball

B. AWS Direct Connect

**C. AWS Database Migration Service (DMS)**

D. None of the above​

1. You currently have an EC2 instance hosting a web application. The number of users is expected to increase in the coming months and hence you need to add more elasticity to your setup. Which of the following methods can help add elasticity to your existing setup. Choose 2 answers from the options given below

**A. Setup your web app on more EC2 instances and set them behind an Elastic Load balancer**

B. Setup an Elastic Cache in front of the EC2 instance.

**C. Setup your web app on more EC2 instances and use Route53 to route requests accordingly.**

D. Setup DynamoDB behind your EC2 Instances​

1. Which of the following container technologies are currently supported by the AWS ECS service? Choose 2 answers.

**A. Kubernetes**

**B. Docker**

C. Mesosphere

D. Canonical LXD

1. You have created your own VPC and subnet in AWS. You have launched an instance in that subnet. You have noticed that the instance is not receiving a DNS name. Which of the below options could be a valid reason for this issue.

A. The CIDR block for the VPC is invalid

B. The CIDR block for the subnet is invalid

**C. The VPC configuration needs to be changed.**

D. The subnet configuration needs to be changed.​

1. You are creating a number of EBS Volumes for your EC2 instances. You are concerned on the backups of the EBS Volumes. Which of the below is a way to backup the EBS Volumes

A. Configure Amazon Storage Gateway with EBS volumes as the data source and store the backups on premise through the storage gateway

**B. Write a cronjob that uses the AWS CLI to take a snapshot of production EBS volumes.**

C. Use a lifecycle policy to back up EBS volumes stored on Amazon S3 for durability

D. Write a cronjob on the server that compresses the data and then copy it to Glacier

1. In a VPC, you have launched two web servers and attached to an internet facing ELB. Both your web servers and ELB are located in the public subnet. Yet, you are still not able to access your web application via the ELB's DNS through the internet. What could be done to resolve this issue?

**A. Attach an Internet gateway to the VPC and route it to the subnet**

B. Add an elastic IP address to the instance

C. Use Amazon Elastic Load Balancer to serve requests to your instances located in the internal subnet

D. Recreate the instances again​

1. There is a connectivity issue reported on a client's Amazon Virtual Private Cloud and EC2 instances. After logging into the environment, you notice that the client is using two instances that all belong to a subnet with an attached internet gateway. The instances also belong to the same security group. However, one of the instances is not able to send or receive traffic like the other one. You see that there is no OS level issue and the instance is working as it should. What could be the possible issue? Choose the correct option.

A. A proper route table configuration that sends traffic from the instance to the Internet through the internet gateway

B. The EC2 instance is running in an availability zone that does not support Internet gateways

C. The EC2 instance is not a member of the same Auto Scaling group/policy

**D. The EC2 instance does not have a public IP address associated with it​​**

1. Your company has resources set up on the AWS Cloud. Your company is now going through a set of scheduled audits by an external auditing firm. Which of the following services can be utilized to help ensure the right information is present for auditing purposes.

**A. AWS CloudTrail**

B. AWS VPC

C. AWS EC2

D. AWS Cloudwatch​

1. As part of your application architecture requirements, the company you are working for has requested the ability to run analytics against all combined log files from the Elastic Load Balancer. Which services are used together to collect logs and process log file analysis in an AWS environment? Choose the correct option.

A. Amazon DynamoDB to store the logs and EC2 for running custom log analysis scripts

B. Amazon EC2 for storing and processing the log files

C. Amazon S3 for storing the ELB log files and EC2 for processing the log files in analysis

**D. Amazon S3 for storing ELB log files and Amazon EMR for processing the log files in analysis**

1. What is a document that provides a formal statement of one or more permissions?

**A. Policy**

B. Permission

C. Role

D. Resource

1. ​Which of the following is not required to ensure that you can SSH into a Linux instance hosted in a VPC from the internet.

**A. Private IP Address**

B. Public IP Address

C.  Internet gateway attached to the VPC

D. Elastic IP

1. ​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**

1. What option from the below lets you categorize your EC2 resources in different ways, for example, by purpose, owner, or environment.

A. wildcards

B. pointers

**C. Tags**

D. special filters​

1. An application requires a minimum of 4 instances to run to ensure that it can cater to its users. You want to ensure fault tolerance and high availability. Which of the following is the best option.

**A. Deploy 2 instances in each of 3 Availability Zones, add a load balancer and an Auto Scaling group to launch more instances if required.**

B. Deploy 2 instances in each of 2 Availability Zones, add a load balancer and an Auto Scaling group to launch more instances if required.

C. Deploy 4 instances in one Availability Zone, add a load balancer and an Auto Scaling group to launch more instances if required. D. Deploy 1 instance in each of 3 Availability Zones, add a load balancer and an Auto Scaling group to launch more instances if required.

1. If you want to point a domain name to an AWS VPC elastic load balancer in Route 53, how would you need to configure the record set? Choose the correct answer from the options below

A. Non-Alias with a type "A" record set

B. Alias with a type "AAAA" record set

C. Alias with a type "CNAME" record set

**D. Alias with a type "A" record set**​

1. A company want to implement a hybrid architecture where it wants to connect VPC's in its account to its on-premise architecture. Which of the following can be used to create a secure private connection between the Company's on-premise architecture and the VPC's hosted in AWS.

**A. AWS Direct Connect + VPN**   
B. Route53

C. ClassicLink

D. AWS Direct Link

1. You have set up a CloudFront distribution but find that instead of each edge location serving up objects that should be cached, your application's origins are being hit for each request. What could be a possible cause of this behavior? Choose the correct answer from the options below

A. The requested contest has never been requested before

B. The objects file size are 10GB in size.

**C. The cache expiration time is set to a low value**

D. You didn't configure the objects with a X.509 certificate

1. In the basic monitoring package for RDS, Amazon CloudWatch provides the following metrics. Choose three correct options.

**A. Database visible metrics such as number of connections**

**B. Disk OPS metrics**

**C. Database memory usage**

D. Web service visible metrics such as number failed transaction requests​​

1. You have an EC2 instance that is transferring data from S3 in the same region. The project sponsor is worried about the cost of the infrastructure. What can you do to convince him that you have a cost effective solution.

A. You are going to be hosting only 4 instances, so you are minimizing on cost.

**B. There is no cost for transferring data from EC2 to S3 if they are in the same region.**

C. AWS provides a discount if you transfer data from EC2 to S3 if they are in the same region.

D. Both EC2 and S3 are in the same availability zone, so you can save via consolidated billing.

1. As a solutions architect, it is your job to design for high availability and fault tolerance. Company-A is utilizing Amazon S3 to store large amounts of file data. What steps would you take to ensure that if an availability zone was lost due to a natural disaster your files would still be in place and accessible

A. Copy the S3 bucket to an EBS optimized backed EC2 instance

**B. Amazon S3 is highly available and fault tolerant by design and requires no additional configuration**

C. Enable AWS Storage Gateway using gateway-stored setup

D. None of the above

1. What are the different options available when creating a VPC using the VPC wizard? Please choose all options that apply.

A. VPC with a Primary and Secondary subnet

**B. VPC with Public and Private Subnets**

**C. VPC with Public and Private Subnets and Hardware VPN Access**

D. VPC with default settings​

1. When an EC2 EBS-backed (EBS root) instance is stopped, what happens to the data on any ephemeral store volumes?

A. Data is automatically saved in an EBS volume.

B. Data is unavailable until the instance is restarted.

**C. Data will be deleted and will no longer be accessible.**

D. Data is automatically saved as an EBS snapshot. ​

1. You are currently hosting an infrastructure and most of the EC2 instances are near 90 – 100% utilized. What is the type of EC2 instances you would utilize to ensure costs are minimized? Assume that the EC2 instance will be running continuously throughout the year.

**A. Reserved instances**

B. On-demand instances

C. Spot instances

D. Regular instances​

1. What is the ability provided by AWS to enable fast, easy, and secure transfers of files over long distances between your client and your Amazon S3 bucket.

A. File Transfer

B. HTTP Transfer

**C. Transfer Acceleration**

D. S3 Acceleration​

1. What is one key difference between an Amazon EBS-backed and an instance-store backed instance?

**A. Amazon EBS-backed instances can be stopped and restarted.**

B. Instance-store backed instances can be stopped and restarted.

C. Auto scaling requires using Amazon EBS-backed instances.

D. Virtual Private Cloud requires EBS backed instances.​

1. You have an application hosted in AWS. The logs from the application are sent to Cloudwatch. The application has recently been encountering some errors. A patch needs to be developed for the error to be rectified. For the moment you need to automate the restart of the server whenever the error occurs. How can you achieve this?

**A. Check the Cloudwatch logs for the error keywords , create an alarm and then restart the server**

B. Create a cloudwatch metric which looks at the CPU utilization and then restarts the server

C. Create a cloudwatch metric which looks at the Memory utilization and then restarts the server

D. Check the Cloudwatch logs for the error keywords, then send a notification to SQS to restart the server

1. A company needs to deploy virtual desktops to its customers in a virtual private cloud, leveraging existing security controls. Which set of AWS services and features will meet the company’s requirements?

A. Virtual Private Network connection. AWS Directory Services, and ClassicLink

**B. Virtual Private Network connection. AWS Directory Services, and Amazon Workspaces**

C. AWS Directory Service, Amazon Workspaces, and AWS Identity and Access Management

D. Amazon Elastic Compute Cloud, and AWS Identity and Access Management​

1. Which of the following statements are true about Amazon Reduced Redundancy Storage (RRS)? Choose the correct 3 answers from the below options.

A. RRS has the ability to provide eleven nines availability.

**B. RRS has the ability to provide 99.99% availability.**

**C. RRS has the ability to provide 99.99% durability.**

**D. If there is a requirement to store data that is easily reproducible or durably stored elsewhere, then RRS is the ideal option.**

1. How many availability zones are mapped to a subnet?

**A. 1**

B. 2

C. Depends on aws at the time of creating a subnet

D. Depends on the number of instances you are going to host in the subnet.​

1. A custom script needs to be passed to a new Amazon Linux instances created in your Auto Scaling group. Which feature allows you to accomplish this?

**A. User data**

B. EC2Config service

C. IAM roles

D. AWS Config

1. What are some of the benefits of using the Cloudformation service? Choose 2 answers from the options given below

A. Can automatically increase instance capacity

B. A storage location for your applications code

**C. Version control your infrastructure**

**D. A great disaster recovery option​**

1. Which of the following best describes the purpose of an Elastic Load Balancer. Choose an answer from the options given below. Choose the correct answer from the options given below

A. To scale more EC2 instances on demand

**B. To evenly distribute traffic among multiple EC2 instances located in single or different Availability Zones.**

C. To distribute traffic to a second instance once the first instance capacity has reached its limit.

D. To evenly distribute traffic among multiple EC2 instances in the same Availability Zone.

1. In default VPC, what are the services you get by default in the VPC? Select 2 options.

A. An Elastic Load Balancer

**B. Default subnet in each Availability Zone**

**C. An Internet Gateway attached to the default VPC**

D. A light weight rds such as SQL Server Express. ​

1. Organization XYZ is planning to build an online chat application for their enterprise level collaboration for their employees across the world. They are looking for a single digit latency fully managed database to store and retrieve conversations. What would AWS Database service you recommend?

**A. AWS DynamoDB**

B. AWS RDS

C. AWS Redshift

D. AWS Aurora

1. When creating an AWS CloudFront distribution, which of the following is not an origin?

A. Elastic Load Balancer

B. AWS S3 bucket

C. AWS MediaPackage channel endpoint

**D. AWS Lambda**

1. Organization ABC has a customer base in US and Australia that would be downloading 10s of GBs files from your application. For them to have a better download experience, they decided to use AWS S3 bucket with cross-region replication with the US as source and Australia as the destination. They are using existing unused S3 buckets and had setup cross-region replication successfully. However, when files uploaded to US bucket, they are not being replicated to Australia bucket. What could be the reason?

A. Versioning is not enabled on the source and destination buckets.

B. Encryption is not enabled on the source and destination buckets.

**C. Source bucket has a policy with DENY and role used for replication is not excluded from DENY.**

D. Destination bucket’s default CORS policy does not have source bucket added as the origin.

1. You will be launching and terminating EC2 instances on need basis for your workloads. You need to run some shell scripts and perform certain checks connecting to AWS S3 bucket when the instance is getting launched. Which of the following options will allow performing any tasks during launch? (choose multiple)

**A. Use Instance user data for shell scripts.**

B. Use Instance metadata for shell scripts.

**C. Use AutoScaling Group lifecycle hooks and trigger AWS Lambda function through CloudWatch events.**

D. Use Placement Groups and set “InstanceLaunch” state to trigger AWS Lambda functions.

1. How many VPCs can an Internet Gateway be attached to at any given time?

A. 2

B. 5

**C. 1**

D. By default 1. But it can be attached to any VPC peered with its belonging VPC.

1. Your organization was planning to develop a web application on AWS EC2. Application admin was tasked to perform AWS setup required to spin EC2 instance inside an existing private VPC. He/she has created a subnet and wants to ensure no other subnets in the VPC can communicate with your subnet except for the specific IP address. So he/she created a new route table and associated with the new subnet. When he/she was trying to delete the route with the target as local, there is no option to delete the route. What could have caused this behavior?

A. Policy attached to IAM user does not have access to remove routes.

**B. A route with the target as local cannot be deleted.**

C. You cannot add/delete routes when associated with the subnet. Remove associated, add/delete routes and associate again with the subnet.

D. There must be at least one route on the route table. Add a new route to enable delete option on existing routes.

1. You had set up an internal HTTP(S) Elastic Load Balancer to route requests to two EC2 instances inside a private VPC. However, one of the target EC2 instance is showing Unhealthy status. Which of the following options could not be a reason for this?

A. Port 80/443 is not allowed on EC2 instance’s Security Group from the load balancer.

**B. An EC2 instance is in different availability zones than load balancer.**

C. The ping path does not exist on the EC2 instance.

D. The target did not return a successful response code

1. You have launched an RDS instance with MySQL database with default configuration for your file sharing application to store all the transactional information. Due to security compliance, your organization wants to encrypt all the databases and storage on the cloud. They approached you to perform this activity on your MySQL RDS database. How can you achieve this?

**A. Copy snapshot from latest snapshot of your RDS instance, select encryption during copy and restore a new DB instance from the newly encrypted snapshot.**

B. Stop the RDS instance, modify and select encryption option. Start the RDS instance, it may take a while to start RDS instance as existing data is getting encrypted.

C. Create a case with AWS support to enable encryption for your RDS instance.

D. AWS RDS is a managed service and the data at rest in all RDS instances are encrypted by default.

1. You have successfully set up a VPC peering connection in your account between two VPCs – VPC A and VPC B, each in a different region. When you are trying to make a request from VPC A to VPC B, request getting failed. Which of the following could be a reason?

A. Cross region peering is not supported in AWS

B. CIDR blocks of both VPCs might be overlapping.

**C. Routes not configured in route tables for peering connections.**

D. VPC A security group default outbound rules not allowing traffic to VPC B IP range.

1. Which of the following statements are true in terms of allowing/denying traffic from/to VPC assuming the default rules are not in effect? (choose multiple)

A. In a Network ACL, for a successful HTTPS connection, add an inbound rule with HTTPS type, IP range in source and ALLOW traffic.

**B. In a Network ACL, for a successful HTTPS connection, you must add an inbound rule and outbound rule with HTTPS type, IP range in source and destination respectively and ALLOW traffic.**

**C. In a Security Group, for a successful HTTPS connection, add an inbound rule with HTTPS type and IP range in the source.**

D. In a Security Group, for a successful HTTPS connection, you must add an inbound rule and outbound rule with HTTPS type, IP range in source and destination respectively.

1. In an Autoscaling policy what best describes what the purpose of a scaling policy is. Choose an answer from the options below. **A. A set of CloudWatch metric thresholds that dictate when to add or remove instances from the Auto Scaling group.**

B. The IAM access policy granted to an Auto Scaling group.

C. The percentage at which an ELB will send traffic to an instance before it sends traffic to a different instance.

D. An SNS notification alert. ​

1. You have an application currently running on five EC2 instances as part of an Auto Scaling group. For the past 30 minutes all five instances have been running at 100 CPU Utilization; however, the Auto Scaling group has not added any more instances to the group. What is the most likely cause? Choose 2 likely answers from the options given below

**A. You already have 20 on-demand instances running.**

**B. The Auto Scaling group's MAX size is set at five.**

C. The Auto Scaling group's scale down policy is too high.

D. The Auto Scaling group's scale up policy has not yet been reached. ​

1. Your team has an application hosted on Docker containers. You want to port that application in the easiest way possible onto AWS for your development community. Which of the following service can be used to fulfil this requirement

A. AWS Elastic Load Balancer

B. AWS SNS

C. AWS SQS

**D. AWS Elastic Beanstalk**

1. Why does stopping and starting an instance help in fixing a System Status Check error? Choose an answer from the options given below

A. Stopping and starting an instance causes the instance to change the AMI.

**B. Stopping and starting an instance causes the instance to be provisioned on different AWS hardware.**

C. Stopping and starting an instance reboots the operating system.

D. None of the above​

1. A company does not want to manage their databases. Which of the following services are fully managed databases provided by AWS?

A. AWS RDS

**B. DynamoDB**

C. Oracle RDS

D. Elastic Map Reduce​

1. There is a requirement to install Perl on a Linux instance when it is launched. Which feature allows you to accomplish this requirement?

**A. User Data**

B. EC2Config Service

C. IAM Roles

D. AWS Config​

1. An IAM user has been created in AWS. But the user is not able to perform any actions. What is the reason for this?

A. IAM users are created by default with partial permissions

B. IAM users are created by default with full permissions

**C. IAM users are created by default with no permissions​**

1. Which of the below AWS service can be used to deploy infrastructure using stacks and templates?

A. Amazon Simple Workflow Service

B. AWS Elastic Beanstalk

**C. AWS CloudFormation**

D. AWS OpsWorks

1. What can be used for EC2 instances in a private subnet to connect to the internet? Choose an answer from the options below.

A. WAF

​B. Direct Connect

**C. NAT Gateway**

​D. VPN​

1. Your company currently uses templates to deploy servers in their on-premise infrastructure. They want to have the same template configurations applied when deploying EC2 Instances. Which of the following can be done to ensure that EC2 Instances can be deployed as per the template standards defined by the organization.

A. Use the EC2 metadata feature to deploy those features at runtime.

B. Use the AWSConfig service to deploy updates to the EC2 Instances before they are launched.

**C. Create pre-built AMI’s with the desired configuration as the organization templates.**

D. It is not possible to define templates for EC2 Instances. You need to deploy the changes manually

1. Which AWS service allows businesses and web application developers an easy and cost effective way to distribute content with low latency and high data transfer speeds?

A. Amazon SES

B. Amazon Cloudtrail

**C. Amazon CloudFront**

D. Amazon S3​

1. "You try to connect to a newly created Amazon EC2 instance via SSH using PuTTY and get one of the following error messages Error: Server refused our key (or) Error: No supported authentication methods available What steps should you take to identify the source of the behavior? Choose 2 answers"

**A. You should also verify that your private key (.pem) file has been correctly converted to the format recognized by PuTTY (.ppk)**

B. Verify that your IAM user policy has permission to launch Amazon EC2 instances.

**C. Verify that you are connecting with the appropriate user name for your AMI.**

D. Verify that the Amazon EC2 Instance was launched with the proper IAM role.​

1. You have an Autoscaling Group which is launching a set of t2.small instances. You now need to replace those instances with a larger instance type. How would you go about making this change in an ideal manner?

A. Change the Instance type in the current launch configuration to the new instance type.

B. Create another Autoscaling Group and attach the new instance type.

**C. Create a new launch configuration with the new instance type and update your Autoscaling Group.**

D. Change the Instance type of the Underlying EC2 instance directly.​​

1. A VPC public subnet is one that (Choose one of the correct option below):

**A. Has at least one route in its associated routing table that uses an Internet gateway**

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

1. What action is required to establish an VPC VPN connection between an on-premise data center and an VPC virtual private gateway?

**A. Assign a static internet-routable IP Address to an Amazon VPC customer gateway**

B. Modify the main route table to allow traffic to a network address translation instance.

C. Use a dedicated network address translation instance in the public subnet

D. Establish a dedicated networking connection using Direct Connect​​

1. Your company currently has a web application hosted on a single EC2 Instance. The load on the application has increased over time and now the users are complaining of slow response time. Which of the following implementations can help alleviate this issue.

A. Attach an additional EBS Volume to the EC2 Instance and direct the application to make the reads from this new volume.

B. Attach an additional network interface with an Elastic IP so that requests can be made onto multiple IP’s.

**C. Launch additional EC2 Instances in a web server farm type configuration and place them behind an Elastic Load Balancer.**

D. Launch additional EC2 Instances in a web server farm type configuration and place them behind Route53.

1. Who are federated users when it comes to AWS? Choose an answer from the options given below

A. These are IAM users in aws

B. These are IAM groups in aws

**C. These are Federated users (external identities) are users you manage outside of AWS in your corporate directory**

D. None of the above​

1. When using the following AWS services, which should be implemented in multiple Availability Zones for high availability solutions? Choose 2 answers

A. Amazon DynamoDB

**B. Amazon Elastic Compute Cloud (EC2)**

**C. Amazon Elastic Load Balancing**

D. Amazon Simple Notification Service (SNS)

E. Amazon Simple Storage Service (S3)

1. For which of the following workloads should a Solutions Architect consider using Elastic Beanstalk. Choose 2 answers from the options given below

**A. A Web application using Amazon RDS**

B. An Enterprise data warehouse

**C. A long running worker process**

D. A static Website E. A management task run once nightly​

1. A company runs a service on AWS to provide offsite backups for images on laptops and phones. The solution must support millions of customers with thousands of images per customer. Images will be retrieved infrequently but must be available for retrieval immediately. Which is the MOST cost efficient storage option that meets these requirements?

A. Amazon Glacier with expedited retrievals

**B. Amazon S3 Standard Infrequent Access**

C. Amazon EFS

D. Amazon S3 Standard​

1. A Solutions Architect is designing a highly scalable system to track records. Records must remain available for immediate download for three months and then the records must be deleted. What is the most appropriate decision for this use case?

A. Store the files in Amazon EBS and create a lifecycle policy to remove the files after 3 months.

**B. Store the files in Amazon S3 and create a lifecycle policy to remove the files after 3 months.**

C. Store the files in Amazon Glacier and create a lifecycle policy to remove the files after 3 months.

D. Store the files in Amazon EFS and create a lifecycle policy to remove the files after 3 months.

1. A Solutions Architect is designing a web page for event registrations and needs a managed service to send a text message to users every time users sign up for an event. Which AWS Service should the Architect use to achieve this?

A. Amazon STS

B. Amazon SQS

C. AWS Lambda

**D. Amazon SNS​**

1. A company is generating large datasets with millions of rows that must be summarized by column. Existing business intelligence tools will be used to build daily reports. Which storage service meets the requirements?

**A. Amazon Redshift**

B. Amazon RDS

C. ElastiCache

D. DynamoDB​

1. There is a requirement for 500 message to be sent and processed in order. Which service can be used in this regard?

**A. AWS SQS**

B. AWS SNS

C. AWS Config

D. AWS ELB​

1. An application needs to access data in another AWS account in the same region. Which of the following can be used to ensure data can be accessed as required?

A. Establish a NAT instance between both accounts

B. Use a VPN between both accounts

C. Use a NAT gateway between both accounts

**D. Use VPC Peering between both accounts​**

1. There is a requirement to host a database application which will have a lot of resource intensive reads and writes. Which of the following is the best storage option to ensure that the data is persistent.

**A. EBS IOPS**

B. EBS SSD

C. EBS Throughput Optimized

D. EBS Cold Storage​

1. An application sends images to S3. The metadata for these images needs to be saved in persistent storage. The metadata needs to be indexed. Which of the following can be used for the underlying storage.

A. AWS Aurora

B. AWS S3

**C. AWS DynamoDB**

D. AWS RDS​

1. Currently a company makes user of EBS snapshots to back up their EBS Volumes. As part of the business continuity requirement, these snapshots need to be made available in another region. How can this be achieved?

A. Directly create the snapshot in the other region

**B. Create a snapshot and then create it in the new region**

C. Copy the snapshot to an S3 bucket and then enable cross region replication for the bucket.

D. Copy the EBS Snapshot to an EC2 instance in another region​

1. There is an application which consists of EC2 Instances behind a classic ELB. An EC2 proxy is used for content management to backend instances. The application might not be able to scale properly. Which of the following can be used to scale the proxy and backend instances appropriately. Choose 2 answers from the options given below

**A. Use Autoscaling for the proxy servers**

**B. Use Autoscaling for the backend instances**

C. Replace the Classic ELB with Application ELB

D. Use Application ELB for both the front end and backend instances​

1. You have a requirement to host a static web site for a domain called mycompany.com in AWS. You need to ensure that the traffic is scaled properly. How can this be achieved. Choose 2 answers from the options given below

A. Host the static site on an EC2 Instance

**B. Use Route53 with static web site in S3**

**C. Enter the NS records from Route53 in the domain registrar**

D. Place the EC2 instance behind the ELB​

1. A database is being hosted using the AWS RDS service. The database is now going to be made into a production database. There is a requirement for the database to be made highly available. Which of the following can be used to achieve this requirement.

A. Use Multi-AZ for the RDS instance to ensure that a secondary database is created in another region

B. Use the Read Replica feature to create another instance of the DB in another region

**C. Use Multi-AZ for the RDS instance to ensure that a secondary database is created in another Availability zone.**

D. Use the Read Replica feature to create another instance of the DB in another Availability zone.

1. A company wants to host a web application and a database layer in AWS. This will be done with the use of subnets in a VPC. Which of the following is the proper architecture design for supporting the required tiers of the application

A. Use a public subnet for the web tier and a public subnet for the database layer

**B. Use a public subnet for the web tier and a private subnet for the database layer**

C. Use a private subnet for the web tier and a private subnet for the database layer

D. Use a private subnet for the web tier and a public subnet for the database layer

1. You require the ability to analyze a customer’s clickstream data on a website so they can do behavioral analysis. Your customer needs to know what sequence of pages and ads their customer clicked on. This data will be used in real time to modify the page layouts as customers click through the site to increase stickiness and advertising click-through. Which option meets the requirements for captioning and analyzing this data?

A. Log clicks in weblogs by URL store to Amazon S3, and then analyze with Elastic MapReduce

**B. Push web clicks by session to Amazon Kinesis and analyze behavior using Kinesis workers**

C. Write click events directly to Amazon Redshift and then analyze with SQL

D. Publish web clicks by session to an Amazon SQS queue. Then send the events to AWS RDs for further processing

1. An application hosted in AWS allows for users to upload videos in an S3 bucket. There is a requirement for a user to upload some videos during one week based on the profile. How can be this be accomplished in the best way possible

A. Create an IAM bucket policy to provide access for a week’s duration

**B. Create a pre-signed URL for each profile which will last for a week’s duration**

C. Create an S3 bucket policy to provide access for a week’s duration

1. A company has a requirement for a managed database in AWS. There is a requirement that joins need to be performed on the underlying queries. Which of the following can be used as the underlying database

**A. AWS Aurora**

B. AWS DynamoDB

C. AWS S3

D. AWS Redhsift​

1. A company is planning on testing a large set of IoT enabled devices. These devices will be streaming data every second. A proper service needs to be chosen in AWS which could be used to collect and analyze these streams in real time. Which of the following could be used for this purpose.

A. Use AWS EMR to store and process the streams

**B. Use AWS Kinesis streams to process and analyze the data**

C. Use AWS SQS to store the data

D. Use SNS to store the data​

1. Your company currently has a set of EC2 Instances hosted in AWS. The state of the instances needs to be monitored and each state change needs to be recorded. Which of the following can help fulfil this requirement. Choose 2 answers from the options given below

A. Use Cloudwatch logs to store the state change of the instances

**B. Use Cloudwatch Events to monitor the state change of the events**

C. Use SQS to trigger a record to be added to a DynamoDB table.

**D. Use AWS Lambda to store a change record in a DynamoDB table.​​**

1. A company has opted to store their cold data on EBS volumes. To ensure optimal cost which of the following would be the ideal EBS volume type to host this type of data.

A. General Purpose SSD

B. Provisioned IOPS SSD

C. Throughput Optimized HDD

**D. Cold HDD​**

1. An application currently uses AWS RDS MySQL as their data layer. Recently they have been getting a lot of performance issues on the database. They are planning to separate the querying part of the application by setting up a separate reporting layer. Which of the following additional steps could also potential assist in improving the performance of the underlying database.

A. Make use of Multi-AZ to setup a secondary database in another Availability Zone

B. Make use of Multi-AZ to setup a secondary database in another Region

**C. Make use of Read Replica’s to setup a secondary read-only database**

D. Make use of Read Replica’s to setup a secondary read and write database

1. A company is asking their developers to store the application logs in an S3 bucket. These logs are only required for a temporary period of time. After this, the logs can be deleted. Which of the following steps can be used to effectively manage this.

A. Create a cron job to detect the stale logs and delete them accordingly.

B. Use a bucket policy to manage the deletion

C. Use an IAM policy to manage the deletion

**D. Use S3 lifecycle policies to manage the deletion​**

1. In an Autoscaling policy what best describes what the purpose of a scaling policy is. Choose an answer from the options below. **A. A set of CloudWatch metric thresholds that dictate when to add or remove instances from the Auto Scaling group**.

B. The IAM access policy granted to an Auto Scaling group.

C. The percentage at which an ELB will send traffic to an instance before it sends traffic to a different instance.

D. An SNS notification alert.​

1. You have an ELB distributing traffic a fleet of EC2 instances inside your VPC, evenly spread across two Availability Zones. However, you realize that only half of our instances are actually receiving traffic. What is the most likely cause of this problem? Choose the correct answer from the options given below

A. The ELBs listener is not set to port 80.

B. One or more security groups do not allow HTTP traffic.

**C. Cross-zone load balancing has not been enabled.**

D. The health check ping port is set to port 80, but should be set to port 22.​

1. You have a web application hosted on an EC2 Instance in AWS. The application is now being accessed by users across the globe. The Operations team is getting support requests from users in some parts that is experiencing extreme slowness. What can be done to the architecture to improve the response time for users?

A. Add more EC2 Instances to support the load

B. Change the Instance type to a higher instance type

C. Add Route53 health checks to improve the performance

**D. Place the EC2 Instance behind Cloudfront​**

1. A company has a requirement for having a file system which can be used across a set of instances. Which of the following storage options would be ideal for this requirement

A. AWS S3

B. AWS EBS Volumes

**C. AWS EFS**

D. AWS EBS snapshots​

1. A company has a set of EBS volumes that need to be catered to incase of a disaster. How could one achieve this in an efficient manner using the existing AWS services?

A. Create a script to copy the EBS volume to another availability zone

B. Create a script to copy the EBS volume to another region

**C. Use EBS Snapshots to create the volumes in another region**

D. Use EBS Snapshots to create the volumes in another Availability Zone​

1. You have an application hosted on AWS. It consists of EC2 instances launched via an Autoscaling Group. You are noticing that the EC2 instances are not scaling up on demand. What checks can be done to ensure that the scaling can occur as expected.

**A. Ensure that the right metrics are being used to trigger the scale out.**

B. Ensure that ELB health checks are being used

C. Ensure that the instances are placed across multiple Availability Zones

D. Ensure that the instances are placed across multiple Regions​

1. You need to host a subscription service in AWS. Users can subscribe to this service and then get notifications on new updates to the service. Which of the following service can be used to fulfil this requirement

A. Use the SQS service to send the notification

B. Host an EC2 Instance and use the Rabbit-MQ service to send the notification

**C. Use the SNS service to send the notification**

D. Use the AWS DynamoDB streams to send the notification​

1. A company has a set of Linux based instances on their On-premise infrastructure. They want to have an equivalent block storage device on AWS which can be used to store the same datasets as on the Linux based instances. As an architect which of the following storage device would you recommend

**A. AWS EBS**

B. AWS S3

C. AWS EFS

D. AWS DynamoDB

1. A company has a requirement to provision test environments quickly. They want to have the ability to tear them down also easily to ensure cost is optimized. How can this be achieved.

**A. Use Cloudformation templates to provision the resources accordingly.**

B. Use a custom script to create and tear down the resources

C. Use IAM policies to have a policy to provision the resources and tear them down accordingly.

D. Use Autoscaling groups to provision the resources on demand.​

1. A company is building a two-tier web application to serve dynamic transaction-based content. The data tier is leveraging an Online Transactional Processing (OLTP) database. What services should you leverage to enable an elastic and scalable web tier?

**A. Elastic Load Balancing, Amazon EC2, and Auto Scaling**

B. Elastic Load Balancing, Amazon RDS with Multi-AZ, and Amazon S3

C. Amazon RDS with Multi-AZ and Auto Scaling

D. Amazon EC2, Amazon Dynamo DB, and Amazon S3​

1. Typically, you want your application to check whether a request generated an error before you spend any time processing results. The easiest way to find out if an error occurred is to look for an \_\_\_\_\_\_\_\_\_\_ node in the response from the Amazon RDS API.

A. Incorrect

**B. Error**

C. FALSE

1. Amazon SWF is designed to help users…

A. Design graphical user interface interactions

B. Manage user identification and authorization

C. Store Web content

**D. Coordinate synchronous and asynchronous tasks which are distributed and fault tolerant.**

1. What does Amazon Elastic Beanstalk provide?

A. scalable storage appliance on top of Amazon Web Services.

**B. An application container on top of Amazon Web Services.**

C. service by this name doesn’t exist.

D. A scalable cluster of EC2 instances.

1. 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.

1. EBS Snapshots occur \_\_\_\_\_

**A. Asynchronously**

B. Synchronously

C. Weekly

1. 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**

D. Depends on the file size

1. 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

1. Your firm has uploaded a large amount of aerial image data to S3 In the past, in your onpremises environment, you used a dedicated group of servers to oaten process this data and used Rabbit MQ -An open source messaging system to get job information to the servers. Once processed the data would go to tape and be shipped offsite. Your manager told you to stay with the current design, and leverage AWS archival storage and messaging services to minimize cost. Which is correct?A. Use SQS for passing job messages use Cloud Watch alarms to terminate EC2 worker instances   
   when they become idle. Once data is processed, change the storage class of the S3 objects to   
   Reduced Redundancy Storage.

B. Setup Auto-Scaled workers triggered by queue depth that use spot instances to process   
messages in SOS Once data is processed,

**C. Change the storage class of the S3 objects to Reduced Redundancy Storage. Setup Auto-Scaled   
workers triggered by queue depth that use spot instances to process messages in SQS Once   
data is processed, change the storage class of the S3 objects to Glacier.**

D. Use SNS to pass job messages use Cloud Watch alarms to terminate spot worker instances   
when they become idle. Once data is processed, change the storage class of the S3 object to   
Glacier.

1. A web company is looking to implement an intrusion detection and prevention system into  
   their deployed VPC. This platform should have the ability to scale to thousands of instances  
   running inside of the VPC. How should they architect their solution to achieve these goals?

A. Configure an instance with monitoring software and the elastic network interface (ENI) set to   
promiscuous mode packet sniffing to see an traffic across the VPC.

**B. Create a second VPC and route all traffic from the primary application VPC through the second   
VPC where the scalable virtualized IDS/IPS platform resides.**

C. Configure servers running in the VPC using the host-based ‘route’ commands to send all traffic   
through the platform to a scalable virtualized IDS/IPS.

D. Configure each host with an agent that collects all network traffic and sends that traffic to the   
IDS/IPS platform for inspection.

1. You are looking to migrate your Development (Dev) and Test environments to AWS. You have decided to use separate AWS accounts to host each environment. You plan to link each accounts bill to a Master AWS account using Consolidated Billing. To make sure you Keep within budget you would like to implement a way for administrators in the Master account to have access to stop, delete and/or terminate resources in both the Dev and Test accounts. Identify which option will allow you to achieve this goal.

A. Create IAM users in the Master account with full Admin permissions. Create cross-account roles   
in the Dev and Test accounts that grant the Master account access to the resources in the account by inheriting permissions from the Master account.

B. Create IAM users and a cross-account role in the Master account that grants full Admin permissions to the Dev and Test accounts.

**C. Create IAM users in the Master account Create cross-account roles in the Dev and Test accounts that have full Admin permissions and grant the Master account access.**

D.Link the accounts using Consolidated Billing. This will give IAM users in the Master account access to resources in the Dev and Test accounts

1. A large real-estate brokerage is exploring the option of adding a cost-effective location based alert to their existing mobile application The application backend infrastructure currently runs on AWS Users who opt in to this service will receive alerts on their mobile device regarding real-estate otters in proximity to their location. For the alerts to be relevant delivery time needs to be in the low minute count the existing mobile app has 5 million users across the us Which one of the following architectural suggestions would you make to the customer?

A. The mobile application will submit its location to a web service endpoint utilizing Elastic Load Balancing and EC2 instances: DynamoDB will be used to store and retrieve relevant otters EC2 instances will communicate with mobile earners/device providers to push alerts back to mobile application.

B. Use AWS DirectConnect or VPN to establish connectivity with mobile carriers EC2 instances will  receive the mobile applications ‘ location through carrier connection: ROS will be used to store and relevant relevant offers EC2

instances will communicate with mobile carriers to push alerts back to the mobile application

**C. The mobile application will send device location using SQS. EC2 instances will retrieve the relevant others from DynamoDB. AWS Mobile Push will be used to send offers to the mobile application**

D. The mobile application will send device location using AWS Mobile Push EC2 instances will  retrieve the relevant offers from DynamoDB EC2 instances will communicate with mobile carriers/device providers to push alerts back to the mobile application.

1. 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

1. You can use \_\_\_\_\_ and \_\_\_\_\_ to help secure the instances in your VPC.

A. security groups and multi-factor authentication

B. security groups and 2-Factor authentication

C. security groups and biometric authentication

**D. security groups and network ACLs**

1. 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

1. What does Amazon CloudFormation provide?

A. None of these.

B. The ability to setup Autoscaling for Amazon EC2 instances.

**C. A template to map network resources for Amazon Web Services.**

D. A templated resource creation for Amazon Web Services.

1. You have recently joined a startup company building sensors to measure street noise and air quality in urban areas. The company has been running a pilot deployment of around 100 sensors for 3 months each sensor uploads 1KB of sensor data every minute to a backend hosted on AWS. During the pilot, you measured a peak or 10 IOPS on the database, and you stored an average of 3GB of sensor data per month in the database. The current deployment consists of a load-balanced auto scaled Ingestion layer using EC2 instances and a PostgreSQL RDS database with 500GB standard storage.The pilot is considered a success and your CEO has managed to get the attention or some  
   potential investors. The business plan requires a deployment of at least 1O0K sensors which needs to be supported by the backend. You also need to store sensor data for at least two years to be able to compare year over year Improvements. To secure funding, you have to make sure that the platform meets these requirements and leaves room for further scaling. Which setup win meet the requirements?

A. Add an SOS queue to the ingestion layer to buffer writes to the RDS instance

**B. Ingest data into a DynamoDB table and move old data to a Redshift cluster**

C. Replace the RDS instance with a 6 node Redshift cluster with 96TB of storage

D. Keep the current architecture but upgrade RDS storage to 3TB and 10K provisioned IOPS

1. Your company plans to host a large donation website on Amazon Web Services (AWS). You anticipate a large and undetermined amount of traffic that will create many database writes. To be certain that you do not drop any writes to a database hosted on AWS. Which service should you use?

A. Amazon RDS with provisioned IOPS up to the anticipated peak write throughput.

**B. Amazon Simple Queue Service (SOS) for capturing the writes and draining the queue to write to the database.**

C. Amazon ElastiCache to store the writes until the writes are committed to the database.

D. Amazon DynamoDB with provisioned write throughput up to the anticipated peak write   
throughput.

1. Which of the following statements are true about Amazon Route 53 resource records?  
   Choose 2 answers

**A. An Alias record can map one DNS name to another Amazon Route 53 DNS name.**

B. A CNAME record can be created for your zone apex.

**C. An Amazon Route 53 CNAME record can point to any DNS record hosted anywhere.**

D. TTL can be set for an Alias record in Amazon Route 53.

E. An Amazon Route 53 Alias record can point to any DNS record hosted anywhere.

1. What is the minimum time Interval for the data that Amazon CloudWatch receives and  
   aggregates?

A. One second

B. Five seconds

**C. One minute**

D. Three minutes

E. Five minutes

1. A company has configured and peered two VPCs: VPC-1 and VPC-2. VPC-1 contains only private subnets, and VPC-2 contains only public subnets. The company uses a single AWS Direct Connect connection and private virtual interface to connect their on-premises network with VPC-1. Which two methods increases the fault tolerance of the connection to VPC-1? Choose 2 answers

A. Establish a hardware VPN over the internet between VPC-2 ana the on-premises network.

**B. Establish a hardware VPN over the internet between VPC-1 and the on-premises network.**

C. Establish a new AWS Direct Connect connection and private virtual interface in the same region   
as VPC-2.

D. Establish a new AWS Direct Connect connection and private virtual interface in a different AWS   
region than VPC-1.

**E. Establish a new AWS Direct Connect connection and private virtual interface in the same AWS   
region as VPC-1**

1. Which of the following are use cases for Amazon DynamoDB? Choose 3 answers

A. Storing BLOB data.

**B. Managing web sessions.**

**C. Storing JSON documents.**

**D. Storing metadata for Amazon S3 objects.**

E. Running relational joins and complex updates.

F. Storing large amounts of infrequently accessed data.

1. A US-based company is expanding their web presence into Europe. The company wants to extend their AWS infrastructure from Northern Virginia (us-east-1) into the Dublin (eu-west1) region. Which of the following options would enable an equivalent experience for users on both continents?

A. Use a public-facing load balancer per region to load-balance web traffic, and enable HTTP health checks.

B. Use a public-facing load balancer per region to load-balance web traffic, and enable sticky sessions.

**C. Use Amazon Route 53, and apply a geolocation routing policy to distribute traffic across both regions.**

D. Use Amazon Route 53, and apply a weighted routing policy to distribute traffic across both regions.

1. An existing application stores sensitive information on a non-boot Amazon EBS data volume attached to an Amazon Elastic Compute Cloud instance. Which of the following approaches would protect the sensitive data on an Amazon EBS volume?

A. Upload your customer keys to AWS CloudHSM. Associate the Amazon EBS volume with AWS CloudHSM. Re-mount the Amazon EBS volume.

**B. Create and mount a new, encrypted Amazon EBS volume. Move the data to the new volume. Delete the old Amazon EBS volume.**

C. Unmount the EBS volume. Toggle the encryption attribute to True. Re-mount the Amazon EBS volume.

D. Snapshot the current Amazon EBS volume. Restore the snapshot to a new, encrypted Amazon EBS volume. Mount the Amazon EBS volume

1. Which of the following approaches provides the lowest cost for Amazon Elastic Block Store snapshots while giving you the ability to fully restore data?

A. Maintain two snapshots: the original snapshot and the latest incremental snapshot.

B. Maintain a volume snapshot; subsequent snapshots will overwrite one another

**C. Maintain a single snapshot the latest snapshot is both Incremental and complete.**

D. Maintain the most current snapshot, archive the original and incremental to Amazon Glacier.

1. A company is deploying a new two-tier web application in AWS. The company has limited staff and requires high availability, and the application requires complex queries and table joins. Which configuration provides the solution for the company’s requirements?

A. MySQL Installed on two Amazon EC2 Instances in a single Availability Zone

**B. Amazon RDS for MySQL with Multi-AZ**

C. Amazon ElastiCache

D. Amazon DynamoDB

1. Which of the following services natively encrypts data at rest within an AWS region? Choose 2 answers

**A. AWS Storage Gateway**

B. Amazon DynamoDB

C. Amazon CloudFront

**D. Amazon Glacier**

E. Amazon Simple Queue Service

1. You need to pass a custom script to new Amazon Linux instances created in your Auto Scaling group. Which feature allows you to accomplish this?

**A. User data**

B. EC2Config service

C. IAM roles

D. AWS Config

1. You are building an automated transcription service in which Amazon EC2 worker instances process an uploaded audio file and generate a text file. You must store both of these files in the same durable storage until the text file is retrieved. You do not know what the storage capacity requirements are. Which storage option is both cost-efficient and scalable?

A. Multiple Amazon EBS volume with snapshots

B. A single Amazon Glacier vault

**C. A single Amazon S3 bucket**

D. Multiple instance stores

1. A customer has a single 3-TB volume on-premises that is used to hold a large repository of images and print layout files. This repository is growing at 500 GB a year and must be presented as a single logical volume. The customer is becoming increasingly constrained with their local storage capacity and wants an off-site backup of this data, while maintaining lowlatency access to their frequently accessed data. Which AWS Storage Gateway configuration meets the customer requirements?

**A. Gateway-Cached volumes with snapshots scheduled to Amazon S3**

B. Gateway-Stored volumes with snapshots scheduled to Amazon S3

C. Gateway-Virtual Tape Library with snapshots to Amazon S3

D. Gateway-Virtual Tape Library with snapshots to Amazon Glacier

1. You try to connect via SSH to a newly created Amazon EC2 instance and get one of the  
   following error messages:  
   “Network error: Connection timed out” or “Error connecting to [instance], reason: -> Connection timed out: connect,”  
   You have confirmed that the network and security group rules are configured correctly and  
   the instance is passing status checks. What steps should you take to identify the source of  
   the behavior? Choose 2 answers

**A. Verify that the private key file corresponds to the Amazon EC2 key pair assigned at launch.**

B. Verify that your IAM user policy has permission to launch Amazon EC2 instances.

**C. Verify that you are connecting with the appropriate user name for your AMI.**

D. Verify that the Amazon EC2 Instance was launched with the proper IAM role.

E. Verify that your federation trust to AWS has been established.

1. A customer is hosting their company website on a cluster of web servers that are behind a public-facing load balancer. The customer also uses Amazon Route 53 to manage their public DNS. How should the customer configure the DNS zone apex record to point to the load balancer?

A. Create an A record pointing to the IP address of the load balancer

B. Create a CNAME record pointing to the load balancer DNS name.

C. Create a CNAME record aliased to the load balancer DNS name.

**D. Create an A record aliased to the load balancer DNS name**

1. Which of the following instance types are available as Amazon EBS-backed only? Choose 2answers

**A. General purpose T2**

B. General purpose M3

**C. Compute-optimized C4**

D. Compute-optimized C3

E. Storage-optimized 12

1. A company has an AWS account that contains three VPCs (Dev, Test, and Prod) in the same region. Test is peered to both Prod and Dev. All VPCs have non-overlapping CIDR blocks. The company wants to push minor code releases from Dev to Prod to speed up time to market. Which of the following options helps the company accomplish this?

**A. Create a new peering connection Between Prod and Dev along with appropriate routes.**

B. Create a new entry to Prod in the Dev route table using the peering connection as the target.

C. Attach a second gateway to Dev. Add a new entry in the Prod route table identifying the gateway as the target.

D. The VPCs have non-overlapping CIDR blocks in the same account. The route tables contain local routes for all VPCs.

1. When will you incur costs with an Elastic IP address (EIP)?

A. When an EIP is allocated.

B. When it is allocated and associated with a running instance.

**C. When it is allocated and associated with a stopped instance.**

D. Costs are incurred regardless of whether the EIP is associated with a running instance.

1. You are designing a web application that stores static assets in an Amazon Simple Storage Service (S3) bucket. You expect this bucket to immediately receive over 150 PUT requests per second. What should you do to ensure optimal performance?

A. Use multi-part upload.

**B. Add a random prefix to the key names.**

C. Amazon S3 will automatically manage performance at this scale.

D. Use a predictable naming scheme, such as sequential numbers or date time sequences, in the   
key names

1. A company is deploying a two-tier, highly available web application to AWS. Which service provides durable storage for static content while utilizing lower Overall CPU resources for the web tier?

A. Amazon EBS volume

**B. Amazon S3**

C. Amazon EC2 instance store

D. Amazon RDS instance

1. A customer wants to track access to their Amazon Simple Storage Service (S3) buckets and also use this information for their internal security and access audits. Which of the following will meet the Customer requirement?

A. Enable AWS CloudTrail to audit all Amazon S3 bucket access.

**B. Enable server access logging for all required Amazon S3 buckets.**

C. Enable the Requester Pays option to track access via AWS Billing

D. Enable Amazon S3 event notifications for Put and Post.

1. You have an application running on an Amazon Elastic Compute Cloud instance, that uploads 5 GB video objects to Amazon Simple Storage Service (S3). Video uploads are taking longer than expected, resulting in poor application performance. Which method will help improve performance of your application?

A. Enable enhanced networking

**B. Use Amazon S3 multipart upload**

C. Leveraging Amazon CloudFront, use the HTTP POST method to reduce latency.

D. Use Amazon Elastic Block Store Provisioned IOPs and use an Amazon EBS-optimized instance

1. You are deploying an application to track GPS coordinates of delivery trucks in the United States. Coordinates are transmitted from each delivery truck once every three seconds. You need to design an architecture that will enable real-time processing of these coordinates from multiple consumers. Which service should you use to implement data ingestion?

**A. Amazon Kinesis**

B. AWS Data Pipeline

C. Amazon AppStream

D. Amazon Simple Queue Service

1. A company is preparing to give AWS Management Console access to developers Company policy mandates identity federation and role-based access control. Roles are currently assigned using groups in the corporate Active Directory. What combination of the following will give developers access to the AWS console? (Select 2) Choose 2 answers

**A. AWS Directory Service AD Connector**

B. AWS Directory Service Simple AD

C. AWS Identity and Access Management groups

**D. AWS identity and Access Management roles**

E. AWS identity and Access Management users