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. ​