#### **What is a computer program?**

An interface for interacting with a device such as a laptop or a mobile phone

#### **What is the role of the motherboard in a computer system?**

It stores data.

#### **Which components are a physical part of a computer system? (Select TWO.)**

Motherboard and Network card

#### **Which statements describe random access memory (RAM)? (Select TWO.)**

It holds data temporarily.

It can be a hard disk drive (HDD) or a solid state drive (SSD).

#### **Which server receives Hypertext Transfer Protocol (HTTP) requests from clients and uses HTTP to send pages or resources back to the requester?**

Web server

#### **Which statements describe the benefits of virtualization? (Select TWO.)**

Multiple virtual machines can be run on a single physical computer.

Implementing virtual machines can reduce resiliency.

#### **Which phases are part of the software development life cycle (SDLC)? (Select TWO.)**

Plan

Convert

#### **Which of the following are examples of a database management system (DBMS)? (Select TWO.)**

Linux

Data center

#### **Which AWS service provides the ability to host virtual machines?**

Amazon S3

#### **Which job roles are part of a development team? (Select TWO.)**

Project manager

Software developer

#### **Which job role writes code and runs initial tests to confirm that the product works?**

Software developer

#### **Which job role maintains a list of different types of tests and runs all tests to verify that each product release works?**

Quality assurance engineer

#### **What are the responsibilities of the database administrator? (Select TWO.)**

Write acceptance criteria for the program.

Configure access to the data.

#### **What are the responsibilities of the project manager? (Select TWO.)**

Gather requirements from clients.

Convert requirements into tasks.

#### **Which statement describes cloud computing?**

It delivers information technology (IT) resources on demand.

#### **Which scenario is an example of software as a service (SaaS) in cloud computing?**

The third-party vendor manages the procurement of resources and the application. The developer is responsible for the application content.

#### **A software developer is focused on deploying code that runs on the AWS Cloud. Which cloud service model does this developer use?**

Platform as a service (PaaS)

#### **Which cloud service model gives the user more control over information technology (IT) resources, such as access to networking features, computers (either virtual or on dedicated hardware), and data storage space?**

IaaS)

#### **A company has an on-premises data center and also runs a portion of its infrastructure in the cloud. Which cloud computing deployment model describes this scenario?**

Hybrid cloud

#### **What are benefits of trading fixed expense for variable expense? (Select TWO.)**

Paying only when computing resources are consumed

Paying for only how much is consumed

#### **What does the concept of massive economies of scale mean in terms of cloud computing?**

Savings can be passed on to customers when more customers use AWS.

#### **What is an advantage of cloud computing?**

Increased speed and agility

#### **What is the benefit of developing in a cloud environment?**

The time needed to access computing resources is reduced.

#### **What does the phrase "go global in minutes" mean?**

Users can deploy their solutions in multiple AWS Regions around the world with a few clicks.

#### **Which cloud computing model gives a user the ability to immediately use a service without having to run or manage any resources?**

Software as a service (SaaS)

#### **Which statement describes AWS?**

AWS is a secure cloud services provider that offers many services to help businesses scale and grow.

#### **Which categories of services does AWS provide? (Select TWO.)**

Compute, storage

#### **Which tools can customers use to create and manage resources in the AWS Cloud? (Select THREE.)**

AWS Management Console

AWS CLI

AWS software development kits (SDKs)

#### **Which resource does the AWS documentation provide?**

Tutorials and projects

#### **Which types of data transfer are free for Amazon S3? (Select TWO.)**

Outbound data transfer from Amazon S3 to Amazon CloudFront in the same Region

Inbound data transfer from the internet to Amazon S3

#### **Which payment options are available for most Amazon EC2 Reserved Instances? (Select THREE.)**

All Upfront payment

Partial Upfront payment

No Upfront payment

#### **Which statements describe the benefits of using the AWS Pricing Calculator? (Select THREE.)**

It estimates monthly services costs.

It gives customers the ability to create estimates for their AWS use cases.

It can help identify opportunities for cost reduction.

#### **Which categories are fundamental drivers of cost with AWS? (Select THREE.)**

Compute

Networking and content delivery

Data center

#### **Which AWS service can customers use to create estimates, share an estimate by a unique link, and revisit any estimates directly through a browser?**

AWS Pricing Calculator

#### **Which capability is the AWS Global Infrastructure designed and built to deliver?**

Scalability

#### **What is an Availability Zone?**

One or more data centers that are built with fault isolation

#### **What is an AWS Region?**

A geographical area in the world

#### **How many Availability Zones are in an AWS Region?**

Two or more

#### **What is Amazon CloudFront?**

A global content delivery network (CDN) that delivers content to end users with reduced latency

#### **Which services are in the AWS storage category? (Select TWO.)**

Amazon S3

Amazon Elastic File System (Amazon EFS)

#### **An administrator wants to create new users for their AWS account and assign permissions to these users. Which service should the administrator use?**

AWS Identity and Access Management (IAM)

#### **Which of the following are AWS service categories? (Select TWO.)**

Security, Identity, and Compliance

Compute

#### **Which compute service makes it possible for users to create virtual machines in the cloud?**

Amazon EC2

#### **Which service can customers use to provision a logically isolated section of the AWS Cloud to establish a virtual network?**

Amazon VPC

#### **Which cloud service model gives the user more control over information technology (IT) resources, such as access to networking features, computers (either virtual or on dedicated hardware), and data storage space?**

IAAS

#### **What is AWS responsible for according to the AWS shared responsibility model?**

Security of the cloud

#### **Which area of concern does the AWS shared responsibility model address in addition to security?**

Compliance

#### **Which task is the customer responsible for according to the AWS shared responsibility model?**

Ensuring that users have entered a user ID and password before they use an application

#### **Which cloud computing model requires the customer to be more involved in managing infrastructure security?**

IAAS

#### **Which cloud computing model requires AWS to manage infrastructure security in its totality?**

Software as a service (SaaS)

#### **What property uniquely identifies an object in an Amazon S3 bucket?**

Object key

#### **How many 9s of durability is Amazon S3 designed to provide?**

11 9s (99.999999999)

#### **A financial company wants to use the lowest-cost Amazon S3 solution for long-term storage. They will need to access their data only once or twice a year. Which Amazon S3 storage class should they choose?**

S3 Glacier Deep Archive

#### **Which action incurs a cost when using Amazon S3?**

Transferring data out to other AWS Regions

#### **Which statements describe Amazon S3? (Select TWO.)**

It can be used for static web hosting.

Bucket names are universal, and they must be unique across all existing bucket names in Amazon S3.

#### **Which statement describes the Amazon EC2 service?**

It provides virtual machines that run on AWS.

#### **A developer wants to run an application that loads a large amount of data into memory on an Amazon EC2 instance. Which instance type should the developer choose to achieve the best performance?**

Memory optimized

#### **Which of the following actions preserves the data on an Amazon EC2 instance that uses an instance store as root volume?**

#### Reboot

#### **A company needs to run an application that is fault tolerant and tolerates interruptions on AWS. Which pricing model would best fit their requirements and help them lower costs as much as possible?**

Spot Instances

#### **Which statement describes a computer network?**

A computer network is a collection of computing devices that are logically connected to communicate and share resources.

#### **What is the role of a server in the client-server computing model?**

The server responds to a request from the client.

#### **A company is laying cable over a long distance and they expect to encounter areas that have high levels of electromagnetic interference (EMI). Which type of cable should the company use?**

Fiber-optic

#### **Which statement describes a Media Access Control (MAC) address and how it’s used by a network interface card (NIC)?**

It is a unique physical identifier that’s assigned by the manufacturer. The NIC uses it to identify data about the sender and the receiver.

#### **Which device transmits incoming data to the receiving device by using only Media Access Control (MAC) addresses?**

Switch

#### **Which statement accurately describes the function of a local area network (LAN) and a wide area network (WAN)?**

A LAN connects nodes and hosts within a geographically limited area. A WAN connects multiple LANs to create a more expansive network that can cover large geographical areas, such as cities.

#### **A network engineer is designing a network topology. In this topology, full redundancy is the highest priority and cost is not a concern. Which topology should the engineer select?**

Mesh

#### **Which statement describes the Open Systems Interconnection (OSI) model?**

It defines a standard of how computers share information and process data over the network. The model has seven layers.

#### **Which statement describes a connectionless protocol?**

It sends a message to the destination without ensuring that the destination is available.

#### **Which statement describes a connection-oriented protocol?**

It creates a session between the sender and the receiver.

#### **Which device should be assigned a static IP address?**

Printer

#### **A network is assigned the following IP address range: 10.0.0.0–10.255.255.255 Which IP address is the network's broadcast address?**

10.255.255.255

#### **A network engineer wants to separate a network from the internet and from other networks. Which IP address type should the engineer use?**

Private IP address

#### **How many bits are in each octet of an IPv4 address?**

8

#### **Which statement describes the purpose of a port number?**

When a port number is combined with an IP address, it uniquely identifies a source or a destination for data communication.

#### **What are the reasons for creating a subnet? (Select TWO.)**

To relieve congestion on a network.

To divide a network into a private network and a public network.

#### **Which IP address class is suitable for small networks?**

Class C (192.0.0.0–233.255.255.255)

#### **What is the purpose of a loopback address, such as 127.0.0.1?**

It’s used for testing and debugging.

#### **Which Class Inter-Domain Routing (CIDR) notation defines the smallest range of IP addresses, where x represents a digit?**

xxx.xxx.xxx.xxx/31

#### **Which statement describes a subnet mask?**

It defines which section of an IP address identifies the network, and which section of the IP address identifies the hosts.

#### **A developer tries to initiate a connection to their company’s local File Transfer Protocol (FTP) server by using its IP address. However, the connection fails. As a result of the connection failure, the systems administrator decides to troubleshoot this issue for the developer. Which procedures can the administrator follow to troubleshoot the developer’s connection? (Select TWO.)**

Test server connectivity with the ping command.

Check the firewall traffic rules to verify that port 21 is open.

#### **Which protocol automatically assigns an IP address and other IP parameters to each device on a network, so that these devices can communicate with other IP networks ?**

Dynamic Host Configuration Protocol (DHCP)

#### **Which command can test if a port on a remote computer is open?**

Telnet

#### **Which protocol is used by applications that prioritize speed over guaranteed data delivery (such as a video-streaming service)?**

User Datagram Protocol (UDP)

#### **What is the role of a Domain Name System (DNS) server ?**

It converts human-readable domain names (such as example.com) into IP addresses.

#### **Which protocol can send mail from the client to a server or transfer email between email servers?**

Simple Message Transfer Protocol (SMTP)

#### **Which protocol defines how to establish and maintain network communications, and also ensures that data packets are well delivered ?**

Transfer Control Protocol/Internet Protocol (TCP/IP)

#### **Which threat-mitigation systems can monitor and analyze network traffic to detect abnormalities? (Select TWO.)**

Network-based intrusion detection system (NIDS)

Intrusion prevention system (IPS)

#### **A network administrator installed firewalls to secure their company’s network, but malicious users recently gained unauthorized access to the network. The company decides to add an extra layer of security to block incoming packets when a network threat is detected. Which threat-mitigation system can the administrator add to the company’s network security measures?**

An intrusion prevention system (IPS)

#### **Which electronic credential represents the online identities of individuals, computers, and other entities on a network?**

Digital certificate

#### **Which procedures are threat-mitigation methods? (Select TWO.)**

Security training

Penetration testing

#### **Which method helps ensure that data saved on disks can only be read with a public key?**

Encrypting data at rest

#### **What is the role of confidentiality in the Confidentiality, Integrity, Availability (CIA) triad?**

It ensures that only users with the correct permissions are allowed to access the correct resources.

#### **Which security perspective is concerned with ensuring that data sent over a network is not tampered with?**

Integrity

#### **Which type of threat floods a resource with multiple requests from multiple systems?**

Distributed Denial of Service (DDoS)

#### **What is a phase in the security lifecycle?**

Prevention

#### **Why do industry security compliance standards exist?**

To provide a framework for enforcing good security practices.

#### **Which term refers to approaches to information security or strategies for network security that are used to implement several defense layers?**

Defense-in-depth

#### **Which tool can automatically detect security weakness in a host?**

Scanner

#### **Which statement describes the function of the traceroute utility?**

It determines the journey of a packet of data from its source to its destination.

#### **Which utilities are usually associated with Internet Control Message Protocol (ICMP)? (Select TWO.)**

ping

Traceroute

#### **Which organization is responsible for assigning IP addresses worldwide?**

Internet Assigned Numbers Authority (IANA)

#### **What is the primary goal of systems hardening?**

To minimize security risks by reducing the set of vulnerabilities that are exposed by a system.

#### **What is a security baseline?**

A starting point for determining what to secure and how to secure it.

#### **Which task helps to harden a system?**

Applying patches regularly.

#### **Which tool is a virtual trap that lures malicious actors and gains their information by functioning like a normal computer system?**

Honeypot

#### **Which tool can access the interactions between a source and destination by IP address, media access control (MAC) address, port, and protocol?**

Wireshark

#### **Which statements describe the function of a network layer route? (Select TWO.)**

It’s an access control list (ACL) that restricts the traffic allowed in the network.

It can support network segmentation.

#### **Which statement describes the function of a network-based intrusion detection system (NIDS)?**

It monitors network activity by using signature-based detection and rules to detect malicious patterns.

#### **Which statement describes the purpose of a firewall?**

It creates rules and exceptions that help control network traffic.

#### **What is Network Address Translation (NAT)?**

A protocol that translates public IP addresses to private IP addresses, and private IP addresses to public IP addresses

#### **Which type of network zone is an intranet?**

Fully controlled zone

#### **What is an Amazon Web Services (AWS) security group?**

A firewall that protects resources

#### **Which type of resource does a security group protect?**

Virtual server

#### **What are the basic parts of a security group rule? (Select TWO.)**

IP address

Port number

#### **Which statement describes the *stateful* nature of a security group?**

Responses to allowed inbound traffic are automatically allowed to flow out.

#### **Which statement describes security groups?**

A security group controls traffic at the instance level.

## **What is a technique that is used for network hardening?**

Implementing authentication, authorization, and accounting (AAA).

## **What is logging access an example of in authentication, authorization, and accounting (AAA)?**

Accounting

## **What is an example of segmenting a network?**

Team A is in subnet A and team B is in subnet B.

## **Which protocol should be disabled if it isn’t used and protected if used?**

Simple Network Management Protocol (SNMP) v1

## **What is a best practice for traffic filtering?**

Explicitly deny all traffic, then permit only needed traffic.

## **Which of the following terms best describes the discipline which embodies the principles and techniques for providing data security?**

Cryptography

## **Which of the following is an advantages of symmetric encryption?**

The key is a shared secret between the sender and the receiver.

## **What is the goal of encryption?**

Confidentiality

## **What protocols use the hybrid encryption method as a mode of encryption? (SELECT TWO.)**

Transmission Layer Security (TLS)

Secure Sockets Layer (SSL)

## **Which of the following is a standard asymmetric encryption algorithm?**

Rivest–Shamir–Adleman (RSA)

## **What signs and issues certificates to entities, and manages trusts and relationships?**

Certificate authorities (CAs)

## **What is a digital certificate?**

An electronic credential that is used to represent an individual, computer, or other entity's online identity

## **Which resource is used with Secure Sockets Layer (SSL) and Transport Layer Security (TLS) to establish a secure connection between a client and server?**

Private key and public key

## **A company's site is giving users an error that the certificate authority (CA) is invalid. What could be the cause of this issue?**

The CA certificate is expired.

## **How is trust achieved?**

Through the exchange of public keys that validate the identities of the parties

## **Which of the features below correctly correspond to the step in Identification and Authentication, Authorization and Accountability (IAAA)?**

Accounting --> Tracking

## **Which is an authentication factor for something you are?**

Fingerprint reader

## **What type of table is used to store hashes of possible passwords?**

Rainbow table

## **Select two features of Brute force attacks.**

GPUs are used to accelerate cracking

The brute force attack relies on all password possibilities

## **What is a form of single sign-on in which one account is used for multiple services?**

Federated Identities

## **You have decided to include a physical object authentication factor in a security plan you are writing for your department.**

## **Which are possible options you could consider for your plan? Select three responses.**

Smart card

Physical key

USB key

## **You have a password policy as an additional layer in your department's security plan. All parameters provide for a strong, secure password EXCEPT:**

Minimum of 3 characters

#### **What is the goal of identity management?**

Administer users and their access permissions

#### **Which security steps are performed during a typical login? (Select TWO.)**

Authentication

Authorization

#### **What is an example of an authentication factor?**

Certificate

#### **Which personal attribute works well as an authentication factor?**

Retina

#### **What is a best practice for identity management?**

Implement password policies.

#### **Which threats are a type of malware? (Select TWO.)**

Virus

Ransomware

#### **What is a countermeasure against malware?**

Regularly scan systems.

#### **What is considered to be a highly effective defense against social engineering attacks?**

Training and education

#### **Which action can help prevent software vulnerabilities?**

Perform code reviews.

#### **What is a database injection attack?**

An attack that introduces malicious data to a backend system through a frontend mechanism

#### **What is AWS CloudTrail?**

A web service that uses log files to record Amazon Web Service (AWS) application programming interface (API) calls.

#### **What are the key benefits of AWS CloudTrail? (Select TWO.)**

It provides visibility by recording users and resource activities.

It simplifies compliance audits by recording activities and events into logs files.

#### **Which types of information are captured by AWS CloudTrail events when a user performs a service request? (Select TWO.)**

The user who performed the request

The IP address where the request originated

#### **Which statements are best practices for working with AWS CloudTrail? (Select TWO.)**

Aggregate log files to a single Amazon Simple Storage Service (Amazon S3) bucket.

Enable file validation for CloudTrail.

#### **Why is integrating AWS CloudTrail with AWS CloudWatch considered to be a good practice?**

CloudWatch monitors and reacts to events that involve CloudTrail log files.

## **What is AWS Config?**

A tool that tracks changes to resources.

## **What are features of AWS Config? (Select TWO.)**

Retrieve inventory from Amazon Web Services (AWS) resources.

Send notifications when a configuration change has occurred in an Amazon Web Services (AWS) resource.

## **Which tool enables customers to define custom rules for AWS Config?**

AWS Lambda

## **What are actions that AWS Config takes when a configuration change occurs on an Amazon Web Services (AWS) service ? (Select TWO.)**

The change is logged, and then stored in an Amazon Simple Storage Service (Amazon S3) bucket.

AWS Config sends a notification by using AWS Simple Notification Service (AWS SNS).

## **Which tasks can an AWS Config rule help achieve?**

Logging Elastic IP addresses that are attached to instances

## **Which types of plans are used to minimize the impact of unplanned downtime? (Select TWO.)**

Business continuity plan

Disaster recovery (DR) plan

## **What is the purpose of the business continuity plan?**

To define how to run the business in a reduced form

## **What is the purpose of the disaster recovery (DR) plan?**

To define how to restore business functionality quickly after a disaster occurs

## **Which statements describe the purpose of the Recovery Point Objective (RPO)? (Select TWO.)**

Its focus is on recovering only data.

It represents how much data loss a business can tolerate.

## **What are best practices for backing up data? (Select TWO.)**

Use remote storage.

Encrypt backup files.

## **Which phase of the security life cycle reviews what happened after a security breach?**

Analysis

## **Which step is performed during root cause analysis (RCA)?**

Establish a timeline, starting with normal operations and ending with the problem’s occurrence.

## **What is a benefit of monitoring and logging?**

It provides the data that is used for problem identification.

## **A company has just recovered from a Trojan horse security breach and is performing a security analysis. Which questions should the company ask during the analysis? (Select TWO.)**

How did the breach happen?

How could the breach have been prevented?

## **What does a monitoring policy define? (Select TWO.)**

Who performs the monitoring?

What resources are to be monitored?

## **Which are the categories in which Trusted advisor provide best practices? (Select TWO.)**

Cost optimization

Fault tolerance

## **Which of the following Trusted Advisor checks are available for free? (Select TWO.)**

Multi-factor authentication (MFA) on the root account

AWS Identity and Access Management (IAM) use

## **What does an AWS Trusted Advisor Red check (Exclamation point (!) ) mean?**

Action is recommended

## **What is the service limit threshold that triggers a warning from the service limits check?**

80 percent

## **AWS Trusted Advisor raises a Security Groups - Unrestricted Access Red check (Exclamation point (!) ) status. Which action should be taken?**

Add rules that give access to a few known IP addresses to the identified security group

## **What is used to authenticate the Amazon Web Services (AWS ) account root user in the AWS Management Console?**

Email address

## **Which type of permissions does an Amazon Web Services (AWS) account root user have?**

Complete access to all AWS services and resources

## **Which logging service should be immediately enabled as a best practice when creating an Amazon Web Services (AWS) account?**

AWS CloudTrail

## **What is a best practice when creating a user in an Amazon Web Services (AWS) account?**

Require multi-factor authentication (MFA) for access.

## **A systems administrator must provide access to the company’s Amazon Web Services (AWS) account to four new employees who work in the same department. How should the administrator set up the new employees according to best practices for AWS Identity and Access Management (IAM)?**

Create an IAM user for each employee.

#### **What are the roles of Amazon Web Services (AWS), according to the AWS approach to compliance? (Select TWO.)**

To provide highly secure and controlled environments

To provide an array of security features

#### **How does Amazon Web Services (AWS) share security information? (Select THREE.)**

By obtaining industry certifications and third-party attestations

By publishing information about AWS security in technical papers

By providing documentation to AWS customers directly through nondisclosure agreements (NDAs)

#### **Which statements describe the Amazon Web Services (AWS) approach to compliance? (Select TWO.)**

Third-party independent auditors deliver attestations of compliance.

AWS provides security features and documents that customers can use to meet compliance requirements for specific industries.

#### **Which statements describe the Amazon Web Services (AWS) approach to risk management? (Select TWO.)**

AWS regularly scans all endpoint IP addresses for public services.

AWS maintains a security framework and security policies.

#### **Which steps are part of the basic approach to compliance for customers ? (Select TWO.)**

Design

Review

#### **Which Amazon Web Services (AWS) resources can customers use to make their application more secure? (Select TWO.)**

AWS account teams

AWS advisories and bulletins

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AWS auditor learning path

AWS account teams

#### **Which offers are part of the AWS Compliance Solutions Guide? (Select TWO.)**

Understanding the shared responsibility model

Requesting a compliance report

#### **What does Amazon Web Services (AWS) Enterprise Support offer? (Select TWO.)**

Support 24/7 through phone, chat, or email

A dedicated AWS Technical Account Manager (TAM)

#### **Which statement describes the service that Amazon Web Services (AWS) account teams provide?**

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#### **Which type of database is Amazon DynamoDB?**

NoSQL database

#### **How does Amazon DynamoDB achieve high availability and scalability across Regions?**

By using a collection of multiple replica tables

##### **Which statement describes the concept of partitioning in Amazon DynamoDB?**

Partitioning is the allocation of storage for a table.

#### **Which statement about Amazon DynamoDB partition keys is true?**

Partition keys uniquely identify each item in the table.

#### **How many ways can Amazon DynamoDB retrieve data from a DynamoDB table?**

Two ways

#### **Which task can be automatically performed by Amazon Relational Database Service (Amazon RDS) or manually performed by a user?**

Periodic backups

#### **Which option must be specified first when creating a database (DB) instance in Amazon Relational Database Service (Amazon RDS)?**

Choose the database engine

#### **Which task is considered to be a best practice for high availability in an Amazon Relational Database Service (Amazon RDS) database (DB) instance?**

Deploying the DB instance in multiple Availability Zones (multi-AZ deployment)

#### **Which use case represents a reason for using Amazon Relational Database Service (Amazon RDS) instead of other database solutions?**

Complex transactions or complex queries

#### **What is the primary benefit of Amazon Relational Database Service (Amazon RDS)?**

It can elastically scale out beyond the capacity constraints of a single database (DB) instance.

1. **Which resource provides a set of foundational questions that customers can use to understand if their architecture aligns with cloud best practices?**

AWS Well-Architected Framework documents

1. **Which AWS Well-Architected Framework pillar provides details about how to recover from failure and mitigate disruption?**

Reliability

1. **What is a key design principle when designing a framework in the cloud?**

Test systems at production scale.

1. **A company is migrating to an Amazon Web Services (AWS) Cloud environment. Their servers are the last set of resources that they will migrate. Which AWS service resource can replace a traditional server?**

Amazon Elastic Compute Cloud (Amazon EC2) instance

1. **What are the two primary perspectives in the AWS Cloud Adoption Framework (AWS CAF)?**

Business and technical

1. **Which phase is conducted after the test phase of a systems operations (SysOps) template?**

Deployment

1. **Which service can customers use to centrally manage access to their launch, configuration management, and resource shutdown?**

AWS Identity and Access Management (IAM)

1. **A network engineer must create an AWS Identity and Access Management (IAM) policy for an Amazon Simple Storage Service (Amazon S3) bucket. Which policy type should the engineer use?**

Resource-based policy

## **Which statements are best practices for AWS Identity and Access Management (IAM)? (Select TWO.)**

Use IAM roles to provide cross-account access.

Delegate administrative functions according to the principle of least privilege.

## **Which part of the following AWS Command Line Interface (AWS CLI) command specifies the operation to be performed?**

aws ec2 stop-instances --instance-id i-1234567890abcdef0 --output json

Stop-instances

## **Which type of AWS Systems Manager document can take a snapshot of an Amazon Elastic Compute Cloud (Amazon EC2) instance?**

Automation document

## **Which AWS Systems Manager feature can store configuration data?**

Parameter store

## **Which AWS Systems Manager feature can connect to an instance directly from the AWS Management Console?**

Session manager

## **Which markup languages are supported in AWS CloudFormation? (Select TWO.)**

JavaScript Object Notation (JSON)

YAML Ain’t Markup Language (YAML)

## **Which Amazon Web Services (AWS) service is based on the Chef and Puppet automation platforms?**

AWS OpsWorks

## **Which resource is a template that Amazon Elastic Compute Cloud (Amazon EC2) uses to launch an instance?**

Amazon Machine Image (AMI)

## **Which resource acts as a firewall at the instance level?**

Security group

## **Which type of IP address is considered to be static, and can be reassigned to different instances?**

Elastic IP address

## **What is an instance profile used for?**

To assign an AWS Identity and Access Management (IAM) role to an Amazon Elastic Compute Cloud (Amazon EC2) instance

## **Which Amazon Elastic Compute Cloud (Amazon EC2) instance type is designed for a balanced and varied workload?**

General purpose

## **A systems administrator wants to create a blue/green deployment infrastructure by using Amazon Route 53 to gradually phase out the blue environment. Which Route 53 routing policy should the administrator use?**

Weighted routing policy

## **Which type of scaling policy uses an Amazon CloudWatch alarm and varies the scaling response based on the size of the alarm breach?**

Step scaling

## **Which Amazon Web Services (AWS) service is a content delivery network (CDN)?**

Amazon CloudFront

## **Which type of Elastic Load Balancing load balancer provides visibility into the health of target instances?**

Application Load Balancer

## **Which component of an application load balancer checks for connection requests from clients?**

Listener

## **Which option is a serverless service for running containers?**

AWS Fargate

## **Which service should a customer use if they must store, manage, and deploy Docker container images?**

Amazon Elastic Container Registry (Amazon ECR)

## **What performs the work in a workflow when using AWS Step Functions?**

Tasks

## **Which service can be used to build and run applications without provisioning or managing servers?**

AWS Lambda

## **Which REST request method is used to create a resource?**

POST

## **Which fully managed Amazon Web Services (AWS) relational database is compatible with MySQL and PostgreSQL?**

Amazon Aurora

## **A customer has decided to migrate from a MySQL database that runs in their data center to Amazon Aurora. Their database must remain fully operational during the migration. In addition, the customer would like to automate data conversion when the data is migrated to AWS. Which AWS service or feature should the customer use?**

AWS Database Migration Service (AWS DMS)

## **Which Amazon Web Services (AWS) service is a fully managed data warehouse that can be used to run complex analytic queries?**

Amazon Redshift

## **What is the maximum number of read replicas that an Amazon Aurora database cluster can have?**

15

## **What is a NoSQL database option?**

Amazon DynamoDB

## **Which connectivity option for a virtual private cloud (VPC) allows a private subnet to connect to the internet?**

Network Address Translation (NAT) gateway

## **A network engineer cannot ping any public resource from an Amazon Elastic Compute Cloud (Amazon EC2) instance. Which situation could be causing the problem?**

The virtual private cloud (VPC) does not have an internet gateway.

## **A network engineer must stop an instance, but keep the same static public IP address. Which type of IP address should the engineer assign to this instance?**

Elastic IP address

## **Which statements describe security groups? (Select TWO.)**

A security group can be applied across multiple instances.

Security group associations can be added and modified after an instance is created.

## **What is a logical network segment in a virtual private cloud (VPC) that can only exist in a single Availability Zone?**

Subnet

## **Which solution works as a buffer, cache, or storage for other temporary content?**

Instance store

## **Which Amazon Simple Storage Service (Amazon S3) object storage class should be used when the pattern of accessing data is unknown or changing?**

Amazon S3 Intelligent-Tiering

## **Which Amazon Elastic Block Store (Amazon EBS) volume type provides the highest performance for frequent read/write operations?**

Provisioned IOPS (SSD)

## **Which storage solution can be attached to an Amazon Elastic Compute Cloud (Amazon EC2) instance?**

Amazon Elastic Block Store (Amazon EBS)

## **How much time should it take to do a bulk retrieval of data from Amazon Simple Storage Service Glacier?**

5–12 hours

## **Which Amazon Web Services (AWS) service feature monitors a metric and sends an alert when the metric changes?**

Amazon CloudWatch alarms

## **Which Amazon Web Services (AWS) service can be used with AWS CloudTrail to store logs?**

Amazon Simple Storage Service (Amazon S3)

## **Which parameter indicates a change in the Amazon Web Services (AWS) environment when creating an event in Amazon CloudWatch Events?**

Events

## **What is a name-value pair that is used for identifying metrics in Amazon CloudWatch?**

Dimension

## **Which type of log can be queried with Amazon Athena?**

AWS CloudTrail logs

#### **Which Amazon Web Services (AWS) service provides consolidated billing and account management capabilities for multiple accounts?**

AWS Organizations

#### **Which Amazon Web Services (AWS) service can be used to define and enforce required tags?**

AWS Config

#### **Which feature of AWS Billing and Cost Management can be used to view costs across linked accounts and to monitor spending on a daily and monthly basis?**

AWS Budgets

#### **Which action would reduce cost for Amazon Web Services (AWS) services?**

Use a stopinator script.

#### **Which resource allows or denies access to Amazon Web Services (AWS) services for individual accounts, or for groups of accounts in an AWS Organizations organizational unit (OU)?**

Service control policy (SCP)

## **Which Amazon Web Services (AWS) service can be used to build a script-like template that represents a stack of AWS resources?**

AWS CloudFormation

## **Why would a systems administrator use a configuration management solution?**

To automate configuration tasks and make them repeatable.

## **What is the purpose of a wait condition in an AWS CloudFormation template?**

To coordinate the creation of template resources with other external configuration actions.

## **An administrator wants to store an AWS CloudFormation template in an Amazon Simple Storage Service (Amazon S3) bucket, but they receive an error. What is likely to be the reason?**

The administrator must have permissions to access the bucket.

## **Which statement about Amazon Machine Images (AMIs) is true?**

An AMI is anchored at the Region level.

—-------------------------------------------------------------------------------------------------------------------------

## **A federal contractor located in Seattle is expanding their cloud presence to Germany, which has strict rules on data that originated in Germany leaving the region, known as data sovereignty. They know that they will have auditors auditing both regions.**

## **What selection criteria should be prioritized for this customer's expansion needs?**

Data governance, legal requirements

## **A federal contractor located in Seattle is expanding their cloud presence to Germany, which has strict rules on data that originated in Germany leaving the region, known as data sovereignty. They know that they will have auditors auditing both regions.**

## **Which services would be considered global for this customer? Select three responses.**

Amazon CloudFront

AWS Identity and Access Management (IAM)

Amazon Route 53

## **A financial company is working with AWS for their new website. Administrators update images and related content on a monthly basis. They have noticed that the website's images take a while to load, especially for some of the global customers.**

## **What service would be beneficial for reducing the latency on image downloads?**

Amazon CloudFront

## **A financial company is working with AWS for their new website. Administrators update images and related content on a monthly basis. They have noticed that the website's images take a while to load, especially for some of the global customers.**

## **Where should the images that are used for the website stored?**

Amazon Simple Storage Service (Amazon S3)

## **A financial company is working with AWS for their new website. Administrators update images and related content on a monthly basis. They have noticed that the website's images take a while to load, especially for some of the global customers.**

## **What AWS CLI output format is most readable by a person, and should be selected by the SysOps administrator to show the customer the results of the image search?**

Table

## **A financial company is working with AWS for their new website. Administrators update images and related content on a monthly basis. They have noticed that the website's images take a while to load, especially for some of the global customers.**

## **Which AWS Command Line Interface (AWS CLI) command should the SysOps administrator use to check all the permissions that are needed to run the required action of the image archive before the action is executed?**

--dry-run

## **A startup tech has just created a mobile app that allows a customer to place a lunch order for delivery with local restaurants through a third party courier. They want to provide the customer and the restaurant with a notification that the delivery has been completed, as the building is secure and all food orders are left in the lobby.**

## **What services could be used to provide the startup's customer with a notification of the food delivery? Select two responses.**

AWS Lambda

Amazon Simple Notification Service (Amazon SNS)

## **A startup tech has just created a mobile app that allows a customer to place a lunch order for delivery with local restaurants through a third party courier. They want to provide the customer and the restaurant with a notification that the delivery has been completed, as the building is secure and all food orders are left in the lobby.**

## 

## **What would secure the mobile app's network so that traffic is not allowed into the database that stores the startup's customer's personal information?**

Network access control lists (network ACLs)

## **A startup tech has just created a mobile app that allows a customer to place a lunch order for delivery with local restaurants through a third party courier. They want to provide the customer and the restaurant with a notification that the delivery has been completed, as the building is secure and all food orders are left in the lobby.**

## **Who has the responsibility to secure the restaurant's financial data, which is stored when an order is placed?**

The restaurant (AWS customer)

## **A startup tech has just created a mobile app that allows a customer to place a lunch order for delivery with local restaurants through a third party courier. They want to provide the customer and the restaurant with a notification that the delivery has been completed, as the building is secure and all food orders are left in the lobby.**

## **Which IP address provides metadata service for all the instances associated with the mobile app?**

169.254.169.254

## **A SysOps engineer working at a local university has decided to launch Amazon Elastic Compute Cloud (Amazon EC2) instances to reduce their hardware footprint. They are new to AWS and will only need to launch in one region until their business grows.**

## **When does user data run when you provision an instance?**

Initialization

## **A SysOps engineer working at a local university has decided to launch Amazon Elastic Compute Cloud (Amazon EC2) instances to reduce their hardware footprint. They are new to AWS and will only need to launch in one region until their business grows.**

## **What type of Amazon EC2 instance would be a best practice for selection?**

On-Demand

## **A SysOps engineer working at a local university has decided to launch Amazon Elastic Compute Cloud (Amazon EC2) instances to reduce their hardware footprint. They are new to AWS and will only need to launch in one region until their business grows.**

## **What actions should the customer take if they would like new hardware to support the Amazon EC2 instance? Select two responses.**

Start the instance

Stop the instance

## **A floral warehouse has just expanded delivery of wholesale flowers and plants to another region of the country and has experienced unexpected growth. They have an online ordering system that promises 48 hour delivery; therefore, they need quick notification of orders to the fulfillment center and a way to track their inventory more efficiently. As a consultant working with a floral warehouse customer that wants to enhance the infrastructure to support the growth, but needs to meet compliance requirements.**

## **Which feature would support the warehouse manager's goal of having their customers receiving real time messages without requiring the customers to make additional requests to the server?**

WebSockets

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## **Which failover configuration of Amazon Route 53 would support the warehouse's website so that it is available for the majority of the time, even if there are unhealthy instances?**

Active-active failover

## **A floral warehouse has just expanded delivery of wholesale flowers and plants to another region of the country and has experienced unexpected growth. They have an online ordering system that promises 48 hour delivery; therefore, they need quick notification of orders to the fulfillment center and a way to track their inventory more efficiently. As a consultant working with a floral warehouse customer that wants to enhance the infrastructure to support the growth, but needs to meet compliance requirements.**

## 

## **What functions does Amazon Route 53 provide for a website? Select three responses.**

Completes health checks of the resource to ensure it can be reached.

Registers domain names.

Routes traffic to the website based on the domain name that is entered.

## **A floral warehouse has just expanded delivery of wholesale flowers and plants to another region of the country and has experienced unexpected growth. They have an online ordering system that promises 48 hour delivery; therefore, they need quick notification of orders to the fulfillment center and a way to track their inventory more efficiently. As a consultant working with a floral warehouse customer that wants to enhance the infrastructure to support the growth, but needs to meet compliance requirements.**

## **Which services can be used to store session-related information off from an Amazon Elastic Compute Cloud (Amazon EC2) instance so that the instance remains stateless? Select two responses.**

Amazon DynamoDB

Amazon ElastiCache

## **A trucking company is looking to track their fleet better and to ensure that they have updated information on the trucks each time they reach the office. Many of the trucks are out on the road for days at a time, but may be at the office for a break period that can last up to a day.**

## **A trucking company is looking to minimize dependence on their current cloud service provider so they are not "locked in", while increasing their development of various applications. The company is trying to decide if they should use containers or go serverless. They know they only need secure, compute capacity when the trucks are at their home base, which may last a day a couple times a month. Sometimes they support partner companies when they are in town; therefore, they may need to accommodate those users once every couple months.**

## **What type of solution would be most ideal for the trucking company?**

Serverless

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## **What type of Amazon Elastic Compute Cloud (Amazon EC2) instance should be used with AWS Lambda for the most economic benefit, while maintaining security and resiliency for the trucking company's use case?**

Spot

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## **Which data streaming service could be added to the trucking company's serverless design to analyze data that can be customized for future applications?**

Amazon Kinesis

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## **How many IAM policies support AWS Lambda authentication?**

Two

## **A FinTech bank has created a new credit card line; therefore, will need to expand its database to capture new customer profiles and link existing customer profiles to the new card line, while maintaining security and PCI compliance requirements. The bank is entirely in the cloud and provides their customer's with unique financial visualizations about their financial habits. Their customers use a mobile app and website for their account transactions and profiles.**

## **What rationale should be used for selecting Amazon DynamoDB as the database to support the mobile application? Select three responses.**

Provides single-digit latency

Supports document and key-value store models

Utilizes unordered collections of name-value pairs

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## **What Amazon DynamoDB attribute can store name-value pair collections that are enclosed in { }?**

Map type

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## **Which database solution would be the most ideal and cost effective architectural choice for storing the customer's personal profile information indefinitely?**

Amazon DynamoDB

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## **What database should be used to track the customer's monthly session data, which can provide insight into the mobile app features that customers use the most and thus help develop cost-effective enhancements for version updates?**

Amazon DynamoDB

## **The automotive industry is now developing a specific unmanned ground vehicle (UGV) to be used by the military that provides alerts to the operator of hazardous conditions, loss of connection, or vehicle damage. They know they will need to align with the National Institute of Standards and Technology (NIST) guidelines 800-171 regarding the vehicle's security strength to protect its location at all times. The application used by each UGV will be hosted in its own virtual private cloud (VPC) and run in a private subnet.**

## **What type of network connection should be used to allow the UGV applications to securely share data between each other?**

VPC peering

## **The automotive industry is now developing a specific unmanned ground vehicle (UGV) to be used by the military that provides alerts to the operator of hazardous conditions, loss of connection, or vehicle damage. They know they will need to align with the National Institute of Standards and Technology (NIST) guidelines 800-171 regarding the vehicle's security strength to protect its location at all times. The application used by each UGV will be hosted in its own virtual private cloud (VPC) and run in a private subnet.**

## **The operator has reported the UGV application is unable to send egress traffic after recent maintenance on the computer system. You have already validated that the application has access permissions for data transfer.**

## **What troubleshooting step should be considered? Select two responses.**

Confirm the network access control lists (network ACLs) provide access to the IP protocols and service ports.

Validate the security group permissions to the service ports, and the source/destination IP addresses

## **The automotive industry is now developing a specific unmanned ground vehicle (UGV) to be used by the military that provides alerts to the operator of hazardous conditions, loss of connection, or vehicle damage. They know they will need to align with the National Institute of Standards and Technology (NIST) guidelines 800-171 regarding the vehicle's security strength to protect its location at all times. The application used by each UGV will be hosted in its own virtual private cloud (VPC) and run in a private subnet.**

## **The operator wants to view the logs produced by the application in Amazon CloudWatch Logs.**

## **What type of connectivity solution should be used to send the application log data to CloudWatch Logs without going through the internet?**

Interface VPC endpoint

## **The local power company has recently installed a new power grid within the community. They are working with the local government to acquire funding for a second power grid, but must show data that shows the cost reductions and how that translates to increased consumption time windows. This data needs to be kept for a minimum of 10 years in case of audit or by inquiry of a government agency. The power company wants to engage the community and gain their support, as their individual and communal power consumption is reflected in the data.**

## **The power company has determined they will access the data at the end of each quarter, but the CEO wants to be able to access this data at anytime without wait.**

## **What storage solution would support this use case the best?**

Amazon S3 STANDARD Infrequent Access (IA)

## **The local power company has recently installed a new power grid within the community. They are working with the local government to acquire funding for a second power grid, but must show data that shows the cost reductions and how that translates to increased consumption time windows. This data needs to be kept for a minimum of 10 years in case of audit or by inquiry of a government agency. The power company wants to engage the community and gain their support, as their individual and communal power consumption is reflected in the data.**

## **The CFO of the company has inquired why there is a sudden increase in the cost of using Amazon Simple Storage Service (Amazon S3). Another department has noted that there is a HTTP 503 slowdown response for any PUT or DELETE requests.**

## **What could be the issue?**

Versioning has been enabled

## **The local power company has recently installed a new power grid within the community. They are working with the local government to acquire funding for a second power grid, but must show data that shows the cost reductions and how that translates to increased consumption time windows. This data needs to be kept for a minimum of 10 years in case of audit or by inquiry of a government agency. The power company wants to engage the community and gain their support, as their individual and communal power consumption is reflected in the data.**

## **The AWS Storage Gateway has encountered a failure, which is causing read and write operations to fail. Upon inspection, you determine that the cache disk is still accessible and useable.**

## **What step should be taken to reconfigure the gateway and resume functionality quickly?**

Reconnect the gateway

## **A local hospital is preparing for an audit and needs to show that they are in compliance with HIPAA requirements. This includes security, data lifecycle management, and compliance. They have experienced problems in the past with an employee that has accessed patient records that were not relevant to their immediate job tasks. The CEO of the hospital wants to ensure that mitigation to this issue has been resolved and has had the SysOps team employ various AWS monitoring and security services.**

## **The SysOps Department Manager has decided to use tags to classify log groups with Amazon CloudWatch Logs. The CFO sees tagging as an added benefit that will help them obtain a detailed view of costs across the hospital.**

## **Which statements describe a tag restriction? Select three responses.**

Keys and values are case-sensitive in a tag

Tag key length between 1 – 128 Unicode characters

Tag value length maximum of 256 Unicode characters

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## **A Support Engineer is trying to retrieve AWS CloudTrail log files.**

## **What file extension is associated with this type of log file?**

.gz

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## **The Support Engineer has been notified that AWS Config is not aggregating data from an organization within the hospital. After investigation, it is found that AWS Config cannot access the organization's details because of an invalid AWS Identity and Access Management (IAM) role.**

## **What corrective step should be taken based on this issue?**

Select or create a valid IAM role

1. A local hospital is preparing for an audit and needs to show that they are in compliance with HIPAA requirements. This includes security, data lifecycle management, and compliance. They have experienced problems in the past with an employee that has accessed patient records that were not relevant to their immediate job tasks. The CEO of the hospital wants to ensure that mitigation to this issue has been resolved and has had the SysOps team employ various AWS monitoring and security services.

A Support Engineer is reviewing Amazon CloudWatch metrics.

Which metric will provide her with insight on the number of bytes written to all instance store volumes that are available to an instance?

DiskWriteBytes

## **A local hospital is preparing for an audit and needs to show that they are in compliance with HIPAA requirements. This includes security, data lifecycle management, and compliance. They have experienced problems in the past with an employee that has accessed patient records that were not relevant to their immediate job tasks. The CEO of the hospital wants to ensure that mitigation to this issue has been resolved and has had the SysOps team employ various AWS monitoring and security services.**

## **The Support Engineer is considering the soft and hard limits of the current configuration and trying to determine what resources can be modified.**

## **Which resources have soft limits? Select two responses.**

DescribeAlarms

ListMetrics

## **A local hospital is preparing for an audit and needs to show that they are in compliance with HIPAA requirements. This includes security, data life cycle management, and compliance. They have experienced problems in the past with an employee that has accessed patient records that were not relevant to their immediate job tasks. The CEO of the hospital wants to ensure that mitigation to this issue has been resolved and has had the SysOps team employ various AWS monitoring and security services.**

## **The hospital CEO has requested additional information on what exactly they are responsible for regarding security because they might be asked questions during an audit.**

## **Which statements describe the sole security responsibilities of the hospital (customer) that can be supported with by evidence from monitoring? Select three responses.**

Customer-stored data

Network logins

Resource access

## **A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce cost, yet ensure that expenses are best utilized across the committees and are finding that individual accounts are no longer working. Since they receive donations, they want to ensure that they can provide use and expense details to their donors when requested.**

## **The non-profit organization uses AWS Organizations to establish authentication and access controls. The CFO has been set up as an IAM user with full permissions on AWS Organizations. The CFO is now trying to make a request to AWS Organizations and keeps getting an "access denied" message. He has called you to assist him with troubleshooting the issue.**

## **Which troubleshooting steps should be considered? Select two responses.**

Validate that the CFO has correctly signed their request.

Verify that the CFO has the permissions to call the action and the requested resource.

## **A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce cost, yet ensure that expenses are best utilized across the committees and are finding that individual accounts are no longer working. Since they receive donations, they want to ensure that they can provide use and expense details to their donors when requested.**

## **The Support Specialist has created an AWS Identity and Access Management (IAM) policy for a new employee.**

## **Which IAM tag and associated tag condition key should be applied to control the new employee's ability to complete specific tasks based on their identity?**

aws:PrincipalTag/key-name

## **A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce cost, yet ensure that expenses are best utilized across the committees and are finding that individual accounts are no longer working. Since they receive donations, they want to ensure that they can provide use and expense details to their donors when requested.**

## **The Director has asked you about AWS Trusted Advisor.**

## **What statement do you provide regarding its purpose and function?**

A customer support service that provides cloud performance monitoring and security.

## **A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce cost, yet ensure that expenses are best utilized across the committees and are finding that individual accounts are no longer working. Since they receive donations, they want to ensure that they can provide use and expense details to their donors when requested.**

## **Which is an AWS Identity and Access Management (IAM) policy that is supported by tag-based conditions?**

Limit Amazon Elastic Compute Cloud (Amazon EC2) application programming interface (API) calls to only development environments

## **A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce cost, yet ensure that expenses are best utilized across the committees and are finding that individual accounts are no longer working. Since they receive donations, they want to ensure that they can provide use and expense details to their donors when requested.**

## **Your manager has asked you create business-relevant tag groupings to organize resources. The non-profit organization wants to ensure that resources are being used in the most frugal and secure manner.**

## **Which tags would be beneficial for automation? Select two responses.**

Date/Time

Opt in/Opt out

## **A global travel company has announced a company restructure in order to reinvest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.**

## **The travel company is planning to deploy a new phone app so customers can book travel. This app will store a lot of personal data about their customers so the customers can book their travel more quickly, including their names, addresses, credit card information, passport numbers, and other details. A challenge is that a hacker could obtain this data or even appear at the customer's home while the customer is on travel.**

## **What potential solutions could the Cloud Engineer use to secure customer information in cloud deployments from hacker penetration? Select three responses.**

Data encryption when in transit with Transport Layer Security (TLS) and at rest with AWS Key Management Service (AWS KMS)

Network firewalls built into Amazon Virtual Private Cloud (Amazon VPC) with the use of Amazon GuardDuty

Permission policies for all types of testing, which is obtained through root credentials and use of access controls

## **A global travel company has announced a company restructure in order to reinvest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.**

## **The Cloud Engineer is planning his AWS CloudFormation templates to support the upcoming deployment of the travel company's new phone app.**

## **What is the maximum number of outputs that can be declared per template?**

200

## **A global travel company has announced a company restructure in order to re-invest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.**

## **The Cloud Engineer is trying to implement more automation by using AWS CloudFormation and by having resources make additional calls to AWS. She wants to use AWS CodeDeploy to deploy applications on existing instances.**

## **What should be specified if a service role has been defined with the respective role's policy?**

## **For example: AWS::IAM::Policy or AWS::IAM::ManagedPolicy**

The resources that will use the role; also, a policy dependency must be added

## **A global travel company has announced a company restructure in order to reinvest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.**

## **The Cloud Engineer is reviewing the AWS CloudFormation output fields that were created by a colleague. There is an error within the export output field, but he is not sure what it is at this time.**

## **The Cloud Engineer must conduct an error review. What restrictions to cross-stack references for the exported resource output should he consider? Select three responses.**

## A stack cannot be deleted if it references another stack in one of its outputs.

Cross-stack references cannot be created across Regions.

Names must be unique within a Region.

## **A global travel company has announced a company restructure in order to reinvest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.**

## **The Cloud Engineer is working with the Department Manager, and she is explaining AWS CloudFormation templates and their respective sections. She explains that as the template is built, the values in one section might refer to another section.**

## **Which template section would provide additional information about the template, and would come after the description?**

Metadata

## **A global travel company has announced a company restructure in order to reinvest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.**

## **Which statements describe best practices for AWS CloudFormation that a Cloud Engineer might require his team to use as a standard for efficiency? Select three responses.**

Plan and organize stacks before creating them

Organize resources in the same stack based on their ownership and lifecycles

Reuse templates to build stacks for different environments

## **A global travel company has announced a company restructure in order to reinvest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.**

## **The Cloud Engineer has received the error Status=start\_failed when he tries to launch another Amazon Elastic Compute Cloud (Amazon EC2) instance. He has verified that there are 20 instances.**

## **Which actions can he take so that the new instance can be created? Select two responses.**

Delete excess instances

Request a limit increase

## **A global travel company has announced a company restructure in order to reinvest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.**

## **The Cloud Engineer is troubleshooting one of his employee's AWS CloudFormation stacks. The employee stated that she made some changes to the stack outside of AWS CloudFormation. He located the stack ID and is working with AWS Premium Support.**

## **What implications could this have on the stack?**

The stack might be in an unrecoverable state

## **A startup tech has just created a mobile app that allows a customer to place a lunch order for delivery with local restaurants through a third party courier. They want to provide the customer and the restaurant with a notification that the delivery has been completed, as the building is secure and all food orders are left in the lobby.**

## **What steps would be required of the SysOps administrator if they want to change an Amazon Elastic Block Store (Amazon EBS) volume from gp2 to io1 to accommodate the restaurant's growth? Select three responses.**

Create a new Amazon Elastic Block Store (Amazon EBS) volume.

Delete the old volume.

Take a snapshot of the Amazon Elastic Block Store (Amazon EBS) volume.

## **A federal contractor located in Seattle is expanding their cloud presence to Germany, which has strict rules on data that originated in Germany leaving the region, known as data sovereignty. They know that they will have auditors auditing both regions.**

## **How should access be provided to auditors?**

IAM Role

## **A financial company is working with AWS for their new website. Administrators update images and related content on a monthly basis. They have noticed that the website's images take a while to load, especially for some of the global customers.**

## **The Administrator has been tasked with updating this month's images, while archiving last month's images. What tool should be selected to expedite this request?**

AWS Command Line Interface (AWS CLI)

## **A SysOps engineer working at a local university has decided to launch Amazon Elastic Compute Cloud (Amazon EC2) instances to reduce their hardware footprint. They are new to AWS and will only need to launch in one region until their business grows.**

## **What is the first step when you launch an Amazon EC2 instance?**

Determine the Amazon Machine Image (AMI) that will be used.

## **A floral warehouse has just expanded delivery of wholesale flowers and plants to another region of the country and has experienced unexpected growth. They have an online ordering system that promises 48 hour delivery; therefore, they need quick notification of orders to the fulfillment center and a way to track their inventory more efficiently. As a consultant working with a floral warehouse customer that wants to enhance the infrastructure to support the growth, but needs to meet compliance requirements.**

## **What type of load balancer would provide the most benefit to the desired infrastructure?**

Application

## **A trucking company is looking to track their fleet better and to ensure that they have updated information on the trucks each time they reach the office. Many of the trucks are out on the road for days at a time, but may be at the office for a break period that can last up to a day.**

## **A trucking company is looking to minimize dependence on their current cloud service provider so they are not "locked in", while increasing their development velocity of various applications. The company is trying to decide if they should use containers or go serverless. They know they only need secure, compute capacity when the trucks are at their home base, which may last a day a couple times a month. Sometimes they support partner companies when they are in town; therefore, they may need to accommodate those users once every couple of months.**

## **Which statements describe when the company might find that containers are a more ideal option? Select three responses.**

Desire to manage the resources and their respective policies, and oversee security.

Move software from one environment to another through isolation.

Have a requirement for portability and maintaining a status of vendor-agnosticism.

## **A FinTech bank has created a new credit card line; therefore, will need to expand its database to capture new customer profiles and link existing customer profiles to the new card line, while maintaining security and PCI compliance requirements. The bank is entirely in the cloud and provides their customers with unique financial visualizations about their financial habits. Their customers use a mobile app and website for their account transactions and profiles.**

## **What AWS service should be prioritized for the bank's database if they want to graph connected data on their customers' financial behaviors?**

Amazon Neptune

## **The automotive industry is now developing a specific unmanned ground vehicle (UGV) to be used by the military that provides alerts to the operator of hazardous conditions, loss of connection, or vehicle damage. They know they will need to align with the National Institute of Standards and Technology (NIST) guidelines 800-171 regarding the vehicle's security strength to protect its location at all times. The application used by the UGV will be hosted in a private subnet.**

## **What needs to be updated after establishing a network address translation (NAT) gateway for the unmanned vehicle application so operators can connect and retrieve location data securely? Select three responses.**

Specify a public subnet for creation

Specify an Elastic IP address for association

Update the route table

## **A local hospital is preparing for an audit and needs to show that they are in compliance with HIPAA requirements. This includes security, data lifecycle management, and compliance. They have experienced problems in the past with an employee that has accessed patient records that were not relevant to their immediate job tasks. The CEO of the hospital wants to ensure that mitigation to this issue has been resolved and has had the SysOps team employ various AWS monitoring and security services.**

## **The SysOps Engineer is troubleshooting an Amazon CloudWatch agent used to publish log data to Amazon CloudWatch Logs, which will then be archived.**

## **What output is displayed in the AWS Command Line Interface (AWS CLI) when you verify that the CloudWatch agent is running? Select three responses.**

Start Time

Status

Version

## **A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce cost, yet ensure that expenses are best utilized across the committees and are finding that individual accounts are no longer working. Since they receive donations, they want to ensure that they can provide use and expense details to their donors when requested.**

## **The Support Specialist has noticed the service control policies (SCPs) in AWS Organizations has exceeded its maximum size. She has begun removing some of the white space characters outside the quotation marks.**

## **What is the maximum size of an SCP document so she can correct the error?**

5,120 bytes

## A global travel company has announced a company restructure in order to re-invest profits into customer facing technology. The IT budget has been re-allocated by 20% for the upcoming year; therefore, staff will be forced to make standardizations and efficiencies with the new budget until the new technology generates increased profits.

## **A Cloud Engineer is working with AWS CloudFormation, and is determining which situations to apply the WaitCondition and CreationPolicy attributes.**

## **Which situations should the WaitCondition be applied to, in addition to the CreationPolicy? Select two responses.**

Tracking the configuration of Amazon Elastic Compute Cloud (Amazon EC2) instances

Tracking the status of configuration process

## **The local power company has recently installed a new power grid within the community. They are working with the local government to acquire funding for a second power grid, but must show data that shows the cost reductions and how that translates to increased consumption time windows. This data needs to be kept for a minimum of 10 years in case of audit or by inquiry of a government agency. The power company wants to engage the community and gain their support, as their individual and communal power consumption is reflected in the data.**

## **The CEO has decided that the company will now begin processing the big data in real time through the use of Amazon Kinesis. The architecture has been developed with, an intermediate and backup Amazon Simple Storage Service (Amazon S3) bucket for potential delivery failures and source records.**

## **What other services should be used for transformed records after they are processed by Amazon Kinesis Data Firehose?**

Amazon Glacier

Amazon Redshift cluster

## **What are the advantages of cloud computing over on-premises computing? Select the best answer.**

Avoid large capital purchases

On-demand capacity

Go global in minutes

Increased speed and agility

All of the above

## **What is the pricing model that enables AWS customers to pay for resources on an as-needed basis? (Select the best answer.)**

Pay as you go

## **All are a cloud deployment model EXCEPT:**

System administration as a service

## **True or False? AWS owns and maintains the network-connected hardware required for application services, while you provision and use what you need.**

True

## **Which of these is not a primary benefit of cloud computing over on-premises computing? Select the best answer.**

Pay for racking, stacking, and powering servers

## **All are benefits of AWS Cloud computing EXCEPT (Choose two):**

High latency

Multiple procurement cycles

## **What is the number one reason businesses are switching to cloud computing?**

Increased speed and agility

## **True or False? Cloud computing provides a simple way to access servers, storage, databases, and a broad set of application services over the internet. You own the network-connected hardware required for these services and AWS provisions what you need.**

FALSE

## **Economies of scale result from \_\_\_. Select the best answer.**

having hundreds of thousands of customers aggregated in the cloud

## **What are the three ways to access AWS services? Select three responses.**

AWS Management Console

AWS Command Line Interface AWS CLI

Software development kits SDKs

—-------------------------------------------------------------------------------------------------------------------

## For certain services like Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Relational Database Service (Amazon RDS), you can invest in reserved capacity. Reserved Instances are available in what three payment options? Select three responses.

All up-front reserved instance (AURI)

Partial up-front reserved instance (PURI)

No up-front (NURI)

## What type of AWS data transfer is free for Amazon Simple Storage Service (Amazon S3)? Select three responses.

Data transfer IN to Amazon S3 from Internet

Up to 1 GB data transfer OUT from Amazon S3 to the internet

Outbound data transfer from Amazon S3 to Amazon CloudFront

## True or false? To receive the discounted rate associated with Reserved Instances, you must make a full, up-front payment for the term of the agreement.

False

## There is no charge for which of the following? Select two responses.

Inbound data transfer

Data transfer between services

## How often do you pay for compute resources from the time you launch a resource until you terminate it with the “pay as you go” pricing model? Select the best answer.

Secondly and hourly

## What AWS tool compares the cost of running your application in an on-premises data center to running it on the AWS Cloud? Select the best answer.

Total Cost of Ownership (TCO) calculator

## As AWS grows, the general cost of doing business is reduced and savings are passed back to the customer in the form of lower pricing. What is this optimization called? Select the best answer.

Economies of scale

## True or false? AWS offers a variety of services at no charge. For example, Amazon Virtual Private Cloud (Amazon VPC), AWS Identity and Access Management (IAM), consolidated billing, AWS Elastic Beanstalk, AWS Auto Scaling, AWS OpsWorks and AWS CloudFormation. Although there is no charge for these services, there may be charges associated with other AWS services used in conjunction with these services.

True

## When are free AWS data transfers applicable? Select two responses.

Free inbound data transfer for Amazon Elastic Compute Cloud (Amazon EC2) instances

Free outbound data transfers within the same Region, within the same Availability Zone, and that use a private IP address

## True or false? Unlimited services are available via the AWS Free Tier to new AWS customers for 12 months following their AWS signup date.

False

## **Which component of the AWS global infrastructure does Amazon CloudFront use to ensure low-latency delivery? Select the best answer.**

AWS Edge Locations

## **You can run applications and workloads from a Region to \_\_ latency to end users.**

Decrease

## **True or False? Each Availability Zone is designed to be isolated from failures in other Availability Zones.**

True

## **Which of the following are geographic areas that host two or more Availability Zones? Select the best answer.**

AWS Regions

## **\_\_ means the infrastructure has built in component redundancy and \_\_ means that resources dynamically adjust to increases or decreases in capacity requirements.**

Fault tolerant, elastic and scalable

## **True or False? Availability Zones within a Region are connected through low-latency links.**

True

## **Which of these statements about Availability Zones is not true? Select the best answer.**

A data center can be used for more than one Availability Zone.

## **What is true about Regions? Select two responses.**

Each region is located in a separate geographic area.

Each region is a physical location that has multiple Availability Zones.

## **AWS highly recommends provisioning your compute resources across \_\_ Availability Zones. Select the best answer.**

Multiple

## **True or False? Edge locations are only located in the same general area as Regions.**

False

## **Which of the following is an example of Amazon Lightsail? Select the best answer.**

Platform as a service (PaaS)

## **True or False? You can launch multiple instances of different types from a single Amazon Machine Image (AMI) when you launch an Amazon Elastic Compute Cloud (Amazon EC2) instance.**

True

## **If your project requires you to run monthly reports that iterate through very large amounts of data, which Amazon Elastic Compute Cloud (Amazon EC2) purchasing option should you consider?**

Scheduled Reserved Instances

## **What is included in an Amazon Machine Image (AMI)? Select the best answer.**

A template for the root volume of the instance

Launch permissions that control which AWS accounts can use the AMI to launch instances

A block device mapping that specifies the values to attach to the instance when it is launched

All of the above

## **Which Amazon Elastic Compute Cloud (Amazon EC2) feature ensures your instances will not share a physical host with instances from any other AWS customer? Select the best answer.**

Dedicated Instances

## **With the “Pay as you go” pricing model, what is the billing interval for compute resources from the time you launch a resource until you terminate it? Select the best answer.**

Monthly

## **Your web application needs four instances to support steady traffic all the time. On the last day of the month, the traffic triples. What is the most cost-effective way to handle this pattern?**

Run four Reserved Instances constantly, then add eight On-Demand Instances on the last day of each month.

## **Which Amazon Elastic Compute Cloud (Amazon EC2) option is best for long-term workloads with predictable usage patterns? Select the best answer.**

Reserved Instances

## **Which of the following must be specified when launching a new Amazon Elastic Compute Cloud (Amazon EC2) Windows instance? Select two responses.**

Amazon EC2 instance type

Amazon Machine Image (AMI)

## **Why is AWS more economical than traditional data centers for applications with varying compute workloads? Select the best answer.**

Amazon EC2 instances can be launched on-demand when needed.

## **In the shared responsibility model, AWS has the responsibility of providing what? Select the best answer.**

Security of the cloud

## **In the shared responsibility model, which of the following are examples of "security in the cloud?” Select two responses.**

Which AWS services are used with the content

In which country content is stored

## **Which of the following are some of the security benefits that AWS offers? Select two responses.**

Secure global infrastructure

Infrastructure that meets compliance requirements

## **True or False? AWS is responsible for the security of everything above the hypervisor layer.**

False

## **Which of the following is the responsibility of AWS under the shared responsibility model? Select the best answer.**

Maintaining physical hardware

## **Which resource provides trusted users with temporary security credentials that can control access to your AWS resources? Select the best answer.**

AWS Security Token Service (AWS STS)

## **Which of the following are AWS Identity and Access Management (IAM) best practices? Select two responses.**

Monitor activity in your AWS account.

Rotate credentials regularly.

## **What does the AWS Identity and Access Management (IAM) policy simulator do? Select the best answer.**

Evaluates the policies you choose and determines the effective permissions for each of the actions you specify.

## **True or False? AWS Identity and Access Management (IAM) is appropriate for operating system (OS) and application authentication.**

False

## **What is an AWS Identity and Access Management (IAM) instance profile? Select the best answer.**

It is a container for an IAM role that you can use to pass role information to an Amazon Elastic Compute Cloud (Amazon EC2) instance when the instance starts.

## **Where can a customer find information about prohibited actions on AWS infrastructure? Select the best answer.**

AWS Acceptable Use Policy

## **True or False? The access key and secret access key are used to log into the AWS Management Console.**

False

## **True or False? Using AWS Identity and Access Management (IAM) groups is the recommended way to manage the permission of IAM users by job function.**

True

## **After initial login, what does AWS recommend as the best practice for the AWS account root user? Select the best answer.**

Delete root user access keys

## **How would a system administrator add an additional layer of login security to a user's access to the AWS Management Console? Select the best answer.**

Enable multi-factor authentication (MFA)

## **Which of the following are advantages of AWS Cloud security? Select two responses.**

You retain complete control and ownership of your data Region.

AWS uses multi-factor access control systems.

## **What is AWS Trusted Advisor?**

An online tool that helps you configure resources to follow best practices.

## **Which of the following are included in AWS Assurance Programs? Select two responses.**

Certifications and attestations

Laws, regulations, and privacy

## **When you create an AWS Identity and Access Management (IAM) policy, what are the two types of access that can be granted to a user? Select two responses.**

Programmatic access

AWS Management Console access

## **The AWS risk and compliance program is made up of which of the following components? Select three responses.**

Information security

Controlled environment

Risk management

## **Which AWS networking service enables a company to create a virtual network within AWS? Select the best answer.**

Amazon Virtual Private Cloud (Amazon VPC)

## **What is the minimum size subnet you can have in an Amazon Virtual Private Cloud (Amazon VPC)? Select two responses.**

/28

## **What is the maximum IP address range size you can have in an Amazon Virtual Private Cloud (Amazon VPC)? Select the best answer.**

/16

## **You must allow resources in a private subnet to access the internet. Which of the following must be present to enable this access? Select the best answer.**

Network address translation (NAT) Gateway

## **True or False? Private subnets have direct access to the internet.**

False

## **Which component of the AWS global infrastructure does Amazon CloudFront use to ensure low-latency delivery? Select the best answer.**

AWS edge locations

## **Which of the following is an optional security control that can be applied at the subnet layer of a VPC?**

Network Access Control List (NACL)

## **What happens when you create a new virtual private cloud (VPC) with Amazon Virtual Private Cloud (Amazon VPC)? Select the best answer.**

A main route table is created by default.

## **How many internet gateways (IGWs) can you attach to an Amazon VPC at any one time?**

1

## **You are a solutions architect who works for a large retail company that is migrating its existing infrastructure to AWS. You recommend they use a custom Amazon Virtual Private Cloud (Amazon VPC). They will need a public subnet for their web servers and a private subnet for their databases. They require web servers and database servers to be highly available, with a minimum of two web servers and two database servers each.**

## 

## **How many subnets should you have to maintain high availability? Select the best answer.**

4

## **What is used to divide an Amazon Virtual Private Cloud (Amazon VPC)?**

Subnet

## **What defines a subnet?**

Classless Inter-Domain Routing (CIDR) block

## **How many subnets are reserved by AWS?**

Five

## **Which statement describes an elastic network interface?**

A virtual network interface that you can attach to an instance in an Amazon Virtual Private Cloud (Amazon VPC).

## **True or False. Within a Region, you can create multiple Amazon Virtual Private Cloud (Amazon VPC) and have complete control of the network configuration for each VPC.**

True

## **True or False? Amazon Simple Storage Service (Amazon S3) is an object storage suitable for the storage of flat files like Microsoft Word documents, photos, and so on.**

True

## **Amazon Simple Storage Service (Amazon S3) replicates all objects \_\_. Select the best answer.**

in multiple Availability Zones within the same Region

## **Which of the following can be used as a storage class for an Amazon Simple Storage Service (Amazon S3) object lifecycle policy? Select three responses.**

S3 - Standard Access

Amazon Simple Storage Service Glacier

S3 - Infrequent Access

## **The name of an Amazon Simple Storage Service (Amazon S3) bucket must be unique \_\_\_\_\_. Select the best answer.**

worldwide across all AWS accounts

## **What can you use Amazon Simple Storage Service (Amazon S3) for with your web application? Select the best answer.**

Store static content such as images, video, CSS, JavaScript, and so on

## **Amazon Elastic Block Store (Amazon EBS) is recommended when data \_\_\_. (choose two responses)**

must be quickly accessible, requiring long-term persistence

requires an encryption solution

## **True or False? By default, all data stored in Amazon Simple Storage Service (Amazon S3) is viewable by the public.**

False

## **Regarding Amazon Simple Storage Service Glacier, what is a vault?**

A container for storing archives

## **True or False? Access control lists are used to make entire buckets public, like one hosting a website on Amazon Simple Storage Service (Amazon S3).**

False

## **Which of the following are features of Amazon Elastic Block Store (Amazon EBS)? Select two responses.**

Amazon EBS is automatically replicated within an Availability Zone.

Amazon EBS volumes can be encrypted transparently to workloads on the attached instance.

## **You are designing an ecommerce web application that will scale to hundreds of thousands of concurrent users. Which database technology is best suited to hold the session state in this example?**

NoSQL database table using Amazon DynamoDB

## **You need to find an item in an Amazon DynamoDB table using an attribute other than the item’s primary key. Which of the following operations should you use? Select the best answer.**

Scan

## **In Amazon DynamoDB, what does the query operation allow you to do? Select the best answer.**

Query a table using the partition key and an optional sort key filter.

Query any secondary indexes that exist for a table.

Efficiently retrieve items from a table or secondary index.

All of the above

## **Which AWS Cloud service is best suited for online analytical processing (OLAP)? Select the best answer.**

Amazon Redshift

## **Select the best answer.**

In Amazon DynamoDB, an attribute is **\_\_**.

a fundamental data element

## **Select the best answer.**

When you create a table in Amazon DynamoDB, in addition to the table name, you must specify the \_\_\_\_\_ of the table.

primary key

## **Select the best answer.**

\_**\_\_** is up to five times faster than standard MySQL databases and three times faster than standard PostgreSQL databases.

Amazon Aurora

## **If you are developing an application that requires a database with extremely fast performance, fast scalability, and flexibility in the database schema, what should you consider? Select the best answer.**

Amazon DynamoDB

## **True or False? Amazon Relational Database Service (Amazon RDS) automatically patches the database software and backs up your database, storing the backups for a user-defined retention period and enabling point-in-time recovery.**

True

## **What should you consider when you choose a database type? Select the best answer.**

Data size

Data access period

Query frequency

High availability

All of the above

## **What are the four support plans offered by AWS? Choose four answers.**

Business

Enterprise

Basic

Developer

## **What are the characteristics of the Developer Support Plan? Select two responses.**

Business hours access to Cloud Support Associates via email

One primary contact can open a case

## **Which of the following is not available in the Business Support Plan? Select the best answer.**

Access to a Well-Architected review delivered by AWS Solutions Architects

## **Which of the AWS Support levels offers 24/7 support via phone or chat? Select two responses.**

Business Support

Enterprise Support

## **Your company’s IT management team is looking for an online tool to provide recommendations to save money, improve system availability and performance, and to help close security gaps. What tool can help the management team?**

AWS Trusted Advisor

## **AWS Support has five different severity levels for support cases. What are they? Select five responses.**

Low

Normal

High

Urgent

Critical

## **What is the response time of urgent issues for Enterprise Support Plan customers? Select the best answer.**

1 hour or less

## **A Basic Support Plan allows how many support cases per month? Select the best answer.**

0

## **What will AWS Trusted Advisor tell you? Select three responses.**

How well the infrastructure is performing

Deployed resources that are not being used, but are incurring charges

Whether or not you are using fault tolerance

## **Which AWS Support plan includes the assistance of a Technical Account Manager (TAM)? Select the best answer.**

Enterprise Support Plan

## **Which of the following is not one of the four areas of the performance efficiency pillar in the Well-Architected Framework? Select the best answer.**

Traceability

## **Which is not a characteristic of the AWS Scaling service? Select the best answer.**

Sends traffic to healthy instances

## **Which options will help increase the availability of a web server farm? Select two responses.**

Launch the web server instance across multiple Availability Zones.

Leverage Scaling to recover from failed instances.

## **Which design principles are recommended when considering performance efficiency? Select two responses.**

Democratize advanced technologies

Utilize serverless architectures

## **Which AWS offering enables customers to find, buy, and immediately start using software solutions in their AWS environment? Select the best answer.**

AWS Marketplace

## **In a physical data center, security is typically considered in what area? Select the best answer**

Only in the perimeter

## **To view all categories of instance metadata from within a running instance, which URL should you use? Select the best answer**

<https://169.254.169.254/latest/meta-data/>

## **What is defined as the ability for a system to remain operational even if some of the components of that system fail? Select the best answer.**

Fault tolerance

## **Your company provides media content via the Internet to customers through a paid subscription model. You leverage Amazon CloudFront to distribute content to your customers with low latency. What approach can you use to serve this private content securely to your paid subscribers?**

Provide signed Amazon CloudFront URLs to authenticated users to access the paid content.

## **Which best describes a system that is always available, without the need for human intervention? Select the best answer.**

Highly available

## **Which of the following AWS tools help your application scale up or down based on demand? Select two responses.**

Scaling

Elastic Load Balancing

## **Which service would you use to send alerts based on Amazon CloudWatch alarms? Select the best answer.**

Amazon Simple Notification Service (Amazon SNS)

## **Which is not a characteristic of the AWS Scaling service? Select the best answer.**

Sends traffic to healthy instances

## **Which of the following must be configured on an Elastic Load Balancing load balancer to accept incoming traffic?**

A listener

## **What are the minimum elements required to create an Auto Scaling launch configuration? Select three responses.**

Amazon Machine Image (AMI)

Instance type

Launch configuration name

## **How long does Amazon CloudWatch keep metric data? Select the best answer.**

15 months

## **Amazon CloudWatch supports which types of monitoring plans? Select two responses.**

Detailed monitoring, which has an additional cost

Basic monitoring, which is free

## **Elastic Load Balancing health checks may be what. Choose three responses.**

A ping

A connection attempt

A page request

## **What are the three types of load balancers that Amazon Elastic Load Balancing offers?**

Application Load Balancer

Network Load Balancer

Classic Load Balancer

1. You want to use an Amazon EC2 instance for a batch processing workload. What would be the best Amazon EC2 instance type to use?

Compute optimized

1. What are the contract length options for Amazon EC2 Reserved Instances? (Select TWO.)

3 years

1. You have a workload that will run for a total of 6 months and can withstand interruptions. What would be the most cost-efficient Amazon EC2 purchasing option?

Spot instances

1. Which process is an example of Elastic Load Balancing?

Ensuring that no single Amazon EC2 instance has to carry the full workload on its own

1. You want to deploy and manage containerized applications. Which service should you use?

Amazon Elastic Kubernetes Service (Amazon EKS)

1. Which statement best describes an Availability Zone?

A single data center or group of data centers within a Region

1. Which statement is TRUE for the AWS global infrastructure?

A Region consists of two or more Availability Zones.

1. Which factors should be considered when selecting a Region? (Select TWO.)

Compliance with data governance and legal requirements

Proximity to your customers

1. Which statement best describes Amazon CloudFront?

A global content delivery service

1. Which site does Amazon CloudFront use to cache copies of content for faster delivery to users at any location?

Edge location

1. Which action can you perform with AWS Outposts?

Extend AWS infrastructure and services to your on-premises data center.

1. Which AWS services can increase the ease of running and managing Docker containers?

**AWS Fargate, Amazon ECS, Amazon EKS**

1. True or False. AWS Lambda automatically scales to support incoming requests without additional configuration, and it remains fault tolerant.

True

1. What performs the work in a workflow when you use AWS Step functions?

Tasks

1. Which AWS service should a customer select if they must store, manage, and deploy Docker container images, with considerations for encryption, third party integrations, and high availability?

Amazon ECR

1. Which of the following provides a managed service for running containers?

AWS Fargate

1. A trucking company wants to minimize dependence on their cloud service provider, while increasing the development speed of various applications. The company is deciding if they should use containers or go serverless. They need secure compute capacity when trucks are at their home base. They must also support partner companies when the partner companies are visiting them, they might need to accommodate those users once every couple of months.

Which statements describe when the company might find that customers are a more ideal option (Select Three)

?????????????????????????????????Help

1. Which AWS service feature provides encryption for data at rest for Amazon ECR?

Amazon S3 server-side encryption

1. True or False. Amazon Elastic Container Registry (Amazon ECR) uses defined policies with AWS Identity and AccessManagement (IAM) to control who has access to container images.

True

1. True or False. Amazon Elastic Kubernetes Services (Amazon EKS) deploys a cluster’s worker nodes across multiple Regions to eliminate a single point of failure.

False

1. Which statement describes how Kubernetes works? (Select three)

Kubernetes schedules containers to run on the cluster based on the available compute resources and the resource requirements of each container

Kubernetes manages a cluster of compute instances

A pod is automatically started or restarted if the pod is not running or fails

1. Which AWS database service would increase availability and performance by enabling up to 15 replicas

Amazon Aurora

1. Which feature of Amazon DynamoDB builds a global footprint by replicating tables automatically across selected Regions?

Global Tables

1. A cloud-based bank created a new credit card line. The bank must expand their database to capture new customer profiles and link existing customer profiles to the new card line. They must also maintain security and compliance with the Payment Card industry Data Security Standard (PCI-DSS). Their customers can use a mobile app or a website for account transactions and profiles, and they can also view visualizations based on their financial data. Which AWS service should be prioritized for the bank’s database if they want to graph connected data about their customer’s financial behaviors?

Amazon Neptune

1. A customer decided to migrate from a MySQL database that runs in their data center to Amazon Aurora.

Which AWS service or AWS service feature should be used to automatically convert data throughout the migration?

AWS Database Migration Service (DMS)

1. True or False. Amazon Relational Database Service (Amazon RDS) handles time-consuming administrative tasks, such as patching and backups.

True

1. True or False. NoSQL database schemas are dynamic

True

1. You are the Sysops administrator for a small global shipping organization. You must reduce costs and administrative overhead in your company’s PostgreSQL environments. The most important requirements for this project are maintaining performance, scalability, and compatibility.

Which AWS service would meet the project requirements?

Amazon Relational Database Service (Amazon RDS)

1. What is the NoSQL database option?

Amazon DynamoDB

1. Which AWS service should a customer consider if they need a relational database that is compatible with MySQL and PostgreSQL, and that is also built for the cloud?

Amazon Aurora

1. What is the maximum number of read replicas that an Amazon Aurora database cluster can have?

15

1. What is the primary purpose of automatic scaling?

To ensure that applications are automatically adjusted for capacity to maintain steady, predictable performance at the lowest cost

1. Which AWS service provides customers with a cost -effective way to route end users to Amazon Elastic Cloud (Amazon EC2) instances and Elastic Load Balancing load balancers?

Amazon Route 53

1. What could be a final recommended (but optional) step when you create a load balancer?

Use the describe-target-health command to verify the health of the instances for any registered instances

1. What happens to CPU utilization when an Amazon Elastic Compute Cloud (Amazon EC2) Auto Scaling group cannot continue to scale up?

Increases

1. True or False. Application Load Balancers are not supported by applications that run in containers.

False

1. True or False. A health check is completed for all targets that are registered to a target group, as specified by the load balancer’s listener rule.

True

1. Which statements are related to how an Amazon Elastic Compute CLoud (Amazon EC2) scaling can be triggered? (Select four)

Amazon CLoud-watch driven

Instance health

Manual scaling

Schedule action

1. True or False. Creating alarms that are only triggered by sustained state changes can reduce thrashing

True

1. Which type of load balancer supports content-based routing?

Application Load Balancer (ALB)

1. Which routing policy routes traffic to several resources, based on established proportions?

Weighted routing policy

1. What provides the required information that is needed to launch an Amazon Elastic Compute Cloud (Amazon EC2) instance?

Amazon Machine Image (AMI)

1. True or False. Network performance can be impacted by the instance type that is selected for use.

True

1. A SysOps engineer who works at a local university decided to launch Amazon Elastic Compute Cloud (Amazon EC2) instances to reduce their hardware footprint. They are new to AWS and only need to launch in one Region until their business grows.

What is the first step when you launch an EC2 instance?

Determine the AMI that will be used

1. True or false. A new billing hour begins when an instance is restarted.

False

1. Which Amazon Elastic Compute Cloud (Amazon EC2) lifecycle state retains the public IP address of the instance?

Running

1. What enables an AWS Identity and Access Management (IAM) role information to be attached to an Amazon Elastic Compute Cloud (Amazon Ec2) instance?

Instance profile

1. True or False. Data that is stored in an instance store is preserved even when the instance is stopped

False

1. True or False. Amazon EBS-optimized instances can provide better performance than other EBS storage options.

True

1. Which block storage option is best suited for I/O-intensive database and application workloads with extremely low latency?

Provisioned IOPS SSD Storage

1. True or False. If a user cannot create a resource, you should check if the user has the permission to create it

True

1. Which type of AWS Cloud Formation function can be used to refer to a value in a comma-delimited list?

Fn::Select

1. Where is the source of the error if a WaitCondtions times out or returns an error?

AWS CloudFormation::Init

1. Which AWS service enables you to build a script-like template that represents a stack of AWS resources, and that can be used to launch precisely defined environment on AWS?

AWS CloudFormation

1. True or False. When you create a custom Amazon AMI, it is only available in the Region in which it was created.

True

1. Which resources does Amazon EC2 Auto Scaling use?

Launch templates

1. What can an AWS CloudFormation template contain? (Select TWO)

Code that describes AWS resources

AWS CLI commands

1. True or False.. Javascript Object Notation (Json) documents do not support binary data.

True

1. Which AWS CloudFormation resource type can provide metadata about an Amazon Elastic Compute Cloud (Amazon EC2) instance for the cfn-init helper script?

Init

1. True or False. There is no repository size limit for AWS CodeCommit

True

1. True or False.Inherited tags count towards the total tag limit for a resource.

True

1. Which AWS service or AWS service feature illustrations the most used resources and the proportional costs of their use?

Month-to-Date Spend by Service

1. True or False. AWS trusted Advisor can Identify underutilized load balancers and volumes

True

1. Which AWS service can be used to define and enforce required tags?

AWS Config

1. What is the main difference between the goals of AWS Cost Explorer and of cost and usage reports?

Cost Explorer displays visualizations of high-level historical and current account costs, but cost and usage reports generate granular usage reports in comma-separated values (CSV) format

1. Which service should be used to find instances that run idle and are increasing costs?

Amazon Cloudwatch

1. Which features of AWS Billing and Cost Management enables you to view costs across linked accounts, and to monitor spending on a daily and monthly basis?

AWS Budgets

1. True or False. Using a stopinator script is a best practice for reducing cost.

True

1. True or False. AWS Config will only evaluate a rule against resources when the resources are running.

False

1. True or False. You can enforce the use of tags with an AWS Identity and Access Management (IAM) policy

True

1. True or False. Cloudwatch alarms are issued in near real-time in responses to changes

True

1. True or False. Amazon Cloudwatch Events can be set to automatically trigger based on rate expressions

True

1. What is the name/value pair that is used to metric identification, and can assist with the design structure for a statistics plan?

Dimension

1. Which of the following AWS services can be used with AWS Cloudtrail to store event logs?

Amazon S3

1. What does AWS CloudTrail allow an IT administrator to determine for a given request made to AWS Config?

Select four responses.

Source IP of the request

Time of request

Who made request

Type of request

1. Which feature of Amazon CloudWatch would you use to publish a statistic on service memory usage for an HTTP server running on an Amazon EC2 instance?

Custom metrics

1. True or False. An Amazon CloudWatch event indicates a change in a resource in your AWS environment

True

1. What are the possible states of an Amazon CloudWatch alarm ? Select three episodes.

Alarm

Insufficient Data

OK

1. True or False. AWS Config can provide a list of all AWS resources used by an account.

True

1. Which AWS service monitors a metric and sends an alert when the metric changes?

CloudWatch alarms

1. What describes the connection between two or more virtual private clouds (VPCs)?

Peering connection

1. How many IP addresses does Amazon VPC reserve in a subnet?

5

1. When you create a subnet, which route table (if any) is associated with it by default?

Main route table

1. True or False. A BEST PRACTICE for IP addressing across multiple virtual private clouds (VPCs) is to use non-overlapping IP address ranges.

True

1. Which statements about a default VPC are true (Select two)?

AWS creates a default VPC in each region

By default, each default VPC is available to one AWS account

1. What is a valid target in a route table?

Elastic network interface ID

Instance ID

Virtual Internet Gateway

1. True or False. A virtual Private cloud (VPC) can span multiple availability zones?

True

1. Which statements describe security groups (Select Three)?

A security group can be applied across multiple instances

Multiple security groups can be assigned to an instance

Security group associations can be added and modified after an instance is created

1. True or False. A virtual private cloud (VPC) has an implicit router and a default route table that routes local traffic within it

True

1. WHat is a logical network segment in a virtual private cloud (VPC) that can only exist within a single Availability Zone?

Subnet

1. Where is an AMazon Elastic Block Store (Amazon EBS) volume tied to?

Availability zones

1. Which of the following need to be defined for an Amazon Data Lifecycle Manager policy? (Select three)

Resource type

Target Tag

Schedule

1. True or False. Amazon Elastic Block Store (Amazon EBS) snapshots are based on deltas, which means that only changes to previous snapshots are saved to Amazon Simple Storage Service (Amazon S3)

True

1. WHich storage solution can be network-attached to an Amazon Elastic Compute Cloud (Amazon EC2) instance?

Amazon Elastic Block Store (Amazon EBS)

1. True or False. After versioning is enabled on an Amazon Simple Storage Service (Amazon S3) bucket, it can then be disabled

False

1. WHich service can be used with Amazon Simple Storage Service (Amazon S3) to receive a notification of a bucket change?

AWS Lambda

Amazon SNS  
Amazon SQS

1. WHich solution is best suited as a cache or buffer?

Instance store (Ephemeral)

1. How much time should it take for archived data to be retrieved by using the bulk retrieval option for Amazon Simple Storage Service Glacier?

5-12 hours

1. True or False. Amazon Elastic File System (Amazon EFS) can span across multiple Availability ZOnes in different regions

False

1. WHich bucket versioning state results in the addition of a marker when an object is deleted?

Versioning enabled

1. True or False. When you define a bucket in Amazon Simple Storage Service (Amazon S3), you must specify the Region where the bucket will exist

True

1. True or False. Access control lists (ACL) are defined with a javascript object notation (JSON) policy document

False

1. Which statements about policy rule evaluation for AWS Identity and Access management (IAM) are correct? (Select three)

An explicit ALLOW overrides the default denial of access to all resources unless an explicit DENY overrides it

All policies are evaluated before a request is allowed or denied

The evaluation order of the policies has no effect on outcome

1. True or False. Access permissions define which actions a user can take and/ or which resources a user can access

True

1. True or False. It is a best practice to follow the policy of granting least privilege when you assign permissions.

True

1. Which service grants customers permissions to centrally manage access to the launch, configuration management, and termination of a resource?

Amazon Identity and Access Management

1. Which AWS service features would be within the scope of a Region? (Select two)

Amazon Machine Images (AMI)

Amazon Simple Storage Service (Amazon S3)

1. Which of the following are best practices for IAM (Select three)?

Delegate administration functions based on the principle of least privilege

Enable multi-factor authentication

Rotate credentials regularly

1. Which output formats are supposed by the AWS Command Line Interface (AWS CLI)? (Select three)

ASCII-formatted tables

JSON

Tab-delimited text

1. WHich part of the following AWS Command Line Interface (AWS CLI) command specifies the operation to be performed?

Aws ec2 stop-instances –instance id i-1234567890abcdef0 –output json

stop-instance

1. What type of AWS Systems Manager document can take a snapshot of an Amazon Elastic Compute Cloud (Amazon EC2) instance?

Automation document

1. You have Bash scripts that you routinely run on your Amazon Elastic Compute Cloud (Amazon EC2) instances that run Linux.

Which AWS service or AWS service feature provides the simplest way to automate the running of these scripts?

AWS System Manager

1. True or False. AWS CloudFormation templates can be written in either Javascript Object Notation (JSON) or YAML Ain’t Markup Language (YAML) files

True

1. Which of the following are AWS OpsWorks offerings? (Select three)

AWS Opsworks for Chef Automate

AWS Opsworks for Puppet Enterprise

AWS OpsWorks for Stacks

1. True or False. The URL for a website hosted in Amazon Simple STorage Service (Amazon S3) can include either a period (.) or a dash (-) to separate the website from the Region name.

True

1. True or False. AWS provides a single software development kit (SDK) that covers all programming languages

False

1. Which AWS Systems Manager feature displays operational data for AWS resources?

AWS Systems Manager Insights Dashboard

1. Which AWS Service can store configuration data?

AWS Systems Manager Parameter Store

1. True or False. You can create set time periods for running administrative tasks with AWS Systems Manager

True

1. Which AWS Systems Manager feature enables access to an Amazon Elastic Compute Cloud (Amazon EC2) instance without opening inbound ports or bastion hosts?

Session Manager

1. What is the cloud computing model where customers manage their virtual servers and the software that's installed on them?

**Infrastructure as a Service (IaaS)**

1. **Match the following**

Ease of deployment-Go Global in minutes

Economies of Scale-Get a lower variable cost for resources than you get on your own

Capital expense to variable expense-Don’t pay upfront for physical assets. Pay as you go for the resources that you use

Speed and agility-Provision resources quickly and on-demand

Spend strategically-Spend money on your business projects, instead of on running data centers

Capacity planning-Eliminate guessing about your capacity needs

1. Which AWS service categories are provided at no charge?

Inbound data transfer

Data transfer between services with same region

1. A system administrator creates a production EC2 instance for a new application. After the instance runs for a day, the developer tells the systems administrator that the system runs very slowly. The systems administrator checks the instance, and the server doesn’t seem to be powerful enough. Which action is the best solution to try?

Change the instance type to a larger size

1. A system crash occurs on a Amazon EC2 instance. Recall that for EC2 instances, the operating system, the operating system-and other software-can be contained separately in an Amazon Machine Image (AMI).

True or False: When an EC2 instance experiences a system crash, the AMI can be used to automate the process of starting a replacement server.

True

1. WHich security tasks are the responsibility of the customer in the AWS shared responsibility model? (Select TWO)

Making sure that users enter a user ID and password before they use an application

Encrypting sensitive application data that’s stored in Amazon S3

## 