Question 1

A federal contractor located in Seattle is expanding their cloud presence to Germany, which has strict tools on data that originated in Germany leaving the region, known as data sovereignty. They know they will have auditors auditing both regions.
What selection criteria should be prioritized for these customers expansion needs?

Correct Answer: Data Governance, legal requirements.

Question 2

A federal contractor located in Seattle is expanding their cloud presence to Germany, which has strict tools on data that originated in Germany leaving the region, known as data sovereignty. They know they will have auditors auditing both regions.
What services should be considered global for this customer? (Select THREE)

Correct Answer: Amazon CloudFront, Amazon routes 53, Amazon Identity and Access Management (IAM)

Question 3

A financial company is working with a WS 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?

Correct Answer: Amazon CloudFront

Question 4

A financial company is working with a WS 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?

Correct Answer: Amazon Simple Storage Service (Amazon S3)

Question 5

A financial company is working with a WS 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?

Correct Answer: Table

Question 6

A financial company is working with a WS 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 CLI command should the SysOps administrator used to check all the permissions that are needed to run the required action of the image archive before the action is executed

Correct Answer: --dry-run

Question 7
A start up tech as those created the 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 restaurants 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 start-ups customer with the notification of the food delivery? (Select TWO)

Correct Answer:
- **Amazon Simple Notification service (Amazon SNS)**
- **AWS Lambda**

Question 8
A start up tech as those created the 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 restaurants 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?**

Correct Answer: 169.254.169.254

Question 9
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?**

Correct Answer: Initialization

Question 10
You start up tech as those created the 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 restaurants with a notification that the delivery has been completed as the building is secure and all food orders are left in the lobby. **What type of Amazon EC2 instance would be a best practice for selection?**

Correct Answer: On-Demand

Question 11

What actions should the customer take if they want new hardware to support the Amazon EC2 instance? (Select two.)

Correct Answer:
- **Stop the instance**
- **Start the instance**

Question 12

A floral warehouse has just expanded delivery of wholesale flowers and plants to another region of the country and has experienced unexpected goods. 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?

Correct Answer: WebSockets

Question 13

A floral warehouse has just expanded delivery of wholesale flowers and plants to another region of the country and has experienced unexpected goods. 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 failover configuration of Amazon would 53 would support the warehouse website so that it is available for the majority of the time, even if there are unhealthy instances?

Correct Answer: Active-active failover

Question 14

A floral warehouse has just expanded delivery of wholesale flowers and plants to another region of the country and has experienced unexpected goods. 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)

Correct Answer:

- **Routes traffic to** the **websites based on the domain name that is entered**
- **Registers domain names**
- **Completes health checks of the resource to ensure it can be reached**

Question 15
A floral warehouse has just expanded delivery of wholesale flowers and plants to another region of the country and has experienced unexpected goods. 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 (Amazon EC2) instance so that the instance remains stateless? Select TWO

Correct Answer: Amazon DynamoDB, Amazon ElasticCache

Question 16
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.
What type of solution would be most ideal for the trucking company?

Correct Answer: Serverless

Question 17
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.
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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?

Correct Answer: Spot Instances

Question 18

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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?

Correct Answer: Amazon Kinesis

Question 19

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How many IAM policies support AWS Lambda authentication?

Correct Answer: 2

Question 20

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 visualization news 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 Dynamo DB as the database to support the mobile application? Select THREE.

Correct Answer:
- **Provides single-digit latency**
- **Utilizes unordered collections of name-value pairs**
- **Supports document and key-value store models**

Question 21
What Amazon DynamoDB attribute can store name-value pair collections that are enclosed in {}?

Correct Answer: Map type

Question 22
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 visualization news about their financial habits. Their customers use a mobile app and website for their account transactions and profiles. **Which database solution would be the most ideal and cost effective architectural choice for storing the customers personal profile information indefinitely**

Correct Answer: Amazon Dynamo DB

Question 23
What database solution would be the most ideal and cost-effective architectural choice for storing the customer's personal profile information indefinitely?

Correct Answer: Amazon DynamoDB

Question 24
What type of network connection should be used to allow the UGV applications to securely share data between each other?

Correct Answer: VPC Peering

Question 25
What troubleshooting steps should be considered for a UGV application unable to send egress traffic? (Select two.)

Correct Answer:
- **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.**

Question 26
What type of connectivity solution should be used to send the application log data to CloudWatch Logs without going through the internet?

Correct Answer: Interface VPC Endpoint

Question 27
What storage solution would support this use case (data accessed quarterly but retained for 10 years) the best?

Correct Answer: Amazon S3 STANDARD Infrequent Access (IA)

Question 28
What could cause a sudden increase in S3 costs and HTTP 503 Slowdown errors?

Correct Answer: Versioning has been enabled

Question 29
What step should be taken to reconfigure an AWS Storage Gateway and resume functionality quickly?

Correct Answer: Reconnect the gateway

Question 30
Which statements describe tag restrictions? (Select three.)

Correct Answer:
- **Tag value length maximum of 256 Unicode characters**
- **Keys and values are case-sensitive in a tag**
- **Tag key length between 1–128 Unicode characters**
- **Reconnect the gateway**

Question 31
Which statements describe tag restrictions? (Select three.)
Correct Answer:
- **Tag value length maximum of 256 Unicode characters**
- **Keys and values are case-sensitive in a tag**
- **Tag key length between 1–128 Unicode characters**

Question 32
What corrective step should be taken when AWS Config cannot access the organization's details due to an invalid IAM role?

Correct Answer: Select or create a valid IAM role

Question 33
Which CloudWatch metric will provide insight into the number of bytes written to all instance store volumes available to an instance?

Correct Answer: DiskWriteBytes

Question 34
Which of these monitoring resources has a soft limit: MetricData, Period, DescribeAlarms, Actions, and ListMetrics?

Correct Answer:
- **ListMetrics**
- **DescribeAlarms**

Explanation:
1. **ListMetrics**: AWS imposes a **soft limit** on the number of metrics that can be returned when querying with the ListMetrics API. This limit can be increased upon request.
2. **DescribeAlarms**: The number of alarms you can create in CloudWatch is governed by a **soft limit**, which can be increased through AWS Support.

Question 35
Which statements describe the sole security responsibilities of the customer that can be supported with monitoring? (Select three.)

Correct Answer:
- **Customer-stored data**
- **Network logins**
- **Resource access**

Question 36
Which troubleshooting steps should be considered for "Access Denied" issues with AWS Organizations? (Select two.)

Correct Answer:
- **Validate that the CFO has correctly signed their request.**
- **Verify that the CFO has the permissions to call the action and the requested resource.**

Question 37
A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce costs, 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?

Correct Answer: aws:PrincipalTag/key-name
Explanation: This condition key is used to control access based on tags associated with the IAM principal (e.g., user or role). This is ideal for enforcing task-specific permissions tied to the employee's identity.

Question 38
A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce costs 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?

Correct Answer: A customer support service that provides cloud performance monitoring and security.
Explanation: AWS Trusted Advisor offers recommendations to improve cost-efficiency, security, fault tolerance, and performance, making it suitable for the organization's needs.

Question 39
A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce costs 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?

Correct Answer: Limit Amazon Elastic Compute Cloud (Amazon EC2) application programming interface (API) calls to only development environments.
Explanation: By using tags (e.g., Environment: Development), you can enforce policies that restrict API calls or access to specific tagged resources, aligning access control with the organization's resource tagging strategy.

Question 40
A non-profit organization has multiple committees that have individual accounts. They are looking at ways to reduce costs 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 to 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)

Correct Answer: Opt in/Opt out & **Date/Time**
Explanation:

Opt in/Opt out: Enables automating participation of resources in specific workflows like backups or monitoring.
Date/Time: Allows for lifecycle automation, such as scheduling resource termination or cleanups, ensuring cost-effective and efficient resource management.

Question 41

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 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.)

Correct Answers:
1. **Data encryption when in transit with Transport Layer Security (TLS) and at rest with AWS Key Management Service (AWS KMS)**
   - Encrypting sensitive customer data protects it from interception during transit (via TLS) and ensures secure storage at rest (via AWS KMS), safeguarding personal and financial information against unauthorized access.
2. **Permission policies for all types of testing, which is obtained through root credentials and use of access controls**
   - Enforcing least privilege principles and strict permission policies prevents unnecessary access during testing, minimizing the risk of vulnerabilities being exploited by hackers.
3. **Network firewalls built into Amazon Virtual Private Cloud (Amazon VPC) with the use of Amazon GuardDuty**
   - Combining firewalls with real-time monitoring via GuardDuty helps secure the network perimeter, detect unauthorized activities, and provide immediate alerts on suspicious behavior.

Question 42

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 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?

Correct Answer: 200

Explanation:
AWS CloudFormation allows a maximum of 200 outputs to be declared per template. Outputs are used to share information between templates or provide information back to the user about the resources created.

Question 43

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?

Correct Answer: The resources that will use the role; also, a policy dependency must be added
Explanation:
When a service role is created and used in AWS CodeDeploy, it must define:
1. The **resources** (e.g., EC2 instances) that will use the role.
2. A **policy dependency**, which ensures that the service role has the proper permissions to perform tasks like deployment actions. This ensures the role is correctly tied to the resources requiring it.

Question 44

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 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.)

Correct Answer:
- **Names must be unique within a Region.**
- **A stack cannot be deleted if it references another stack in one of its outputs.**
- **Cross-stack references cannot be created across Regions.**

Question 45

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 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?

Correct Answer: Metadata

Question 46
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.
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.)

Correct Answer:
- **Reuse templates to build stacks for different environments.**
- **Plan and organize stacks before creating them.**
- **Organize resources in the same stack based on their ownership and lifecycles.**

Question 47
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 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.)

Correct Answer:
- **Delete excess instances.**
- **Request a limit increase.**

Question 48
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 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?

Correct Answer: The stack might be in an unrecoverable state.

Question 49

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.)

Correct Answer:

1. **Take a snapshot of the Amazon Elastic Block Store (Amazon EBS) volume:**
   Always back up the EBS volume by taking a snapshot before making any modifications. This ensures you have a recovery point in case something goes wrong.
2. **Create a new Amazon Elastic Block Store (Amazon EBS) volume:**
   A direct conversion from gp2 to io1 is not supported. You need to create a new volume with the io1 type using the snapshot created earlier.
3. **Detach the original volume and attach the new one:**
   Once the new io1 volume is created, detach the original volume (gp2) and attach the new io1 volume to the instance. Update configurations as needed to ensure smooth functionality.