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**Correct Answer:** D

**Explanation:**

<https://docs.aws.amazon.com/AWSEC2/latest/APIReference/ec2-api-permissions.html>

By default, AWS Identity and Access Management (IAM) users don't have permission to create or modify Amazon EC2 resources, or perform tasks using the Amazon EC2 API. To allow IAM users to create or modify resources and perform tasks, you must create IAM policies that grant IAM users permissions for the specific resources and API actions they'll need to use, and then attach those policies to the IAM users or groups that require those permissions.

### **QUESTION 114**

A company wants to enforce strict security guidelines on accessing AWS Cloud resources as the company migrates production workloads from its data centers. Company management wants all users to receive permissions according to their job roles and functions. Which solution meets these requirements with the LEAST operational overhead?

- A. Create an AWS Single Sign-On deployment. Connect to the on-premises Active Directory to centrally manage users and permissions across the company.
- B. Create an IAM role for each job function. Require each employee to call the sts:AssumeRole action in the AWS Management Console to perform their job role.
- C. Create individual IAM user accounts for each employee. Create an IAM policy for each job function, and attach the policy to all IAM users based on their job role.
- D. Create individual IAM user accounts for each employee. Create IAM policies for each job function. Create IAM groups, and attach associated policies to each group. Assign the IAM users to a group based on their Job role.

**Correct Answer:** D

### **QUESTION 115**

A company has a web application with sporadic usage patterns. There is heavy usage at the beginning of each month, moderate usage at the start of each week, and unpredictable usage during the week. The application consists of a web server and a MySQL database server running inside the data center. The company would like to move the application to the AWS Cloud and needs to select a cost-effective database platform that will not require database modifications. Which solution will meet these requirements?

- A. Amazon DynamoDB
- B. Amazon RDS for MySQL
- C. MySQL-compatible Amazon Aurora Serverless
- D. MySQL deployed on Amazon EC2 in an Auto Scaling group

**Correct Answer:** B

### **QUESTION 116**

A company wants to perform an online migration of active datasets from an on-premises NFS server to an Amazon S3 bucket that is named DOC-EXAMPLE-BUCKET. Data integrity verification is required during the transfer and at the end of the transfer. The data also must be encrypted. A solutions architect is using an AWS solution to migrate the data. Which solution meets these requirements?

- A. AWS Storage Gateway file gateway
- B. S3 Transfer Acceleration

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- C. AWS DataSync
- D. AWS Snowball Edge Storage Optimized

**Correct Answer: C**

### **QUESTION 117**

A company is launching a new application deployed on an Amazon Elastic Container Service (Amazon ECS) cluster and is using the Fargate launch type for ECS tasks. The company is monitoring CPU and memory usage because it is expecting high traffic to the application upon its launch. However the company wants to reduce costs when utilization decreases. What should a solutions architect recommend?

- A. Use Amazon EC2 Auto Scaling to scale at certain periods based on previous traffic patterns
- B. Use an AWS Lambda function to scale Amazon ECS based on metric breaches that trigger an Amazon CloudWatch alarm
- C. Use Amazon EC2 Auto Scaling with simple scaling policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm
- D. Use AWS Application Auto Scaling with target tracking policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm

**Correct Answer: C**

### **QUESTION 118**

A company receives structured and semi-structured data from various sources once every day. A solutions architect needs to design a solution that leverages big data processing frameworks. The data should be accessible using SQL queries and business intelligence tools. What should the solutions architect recommend to build the MOST high-performing solution?

- A. Use AWS Glue to process data and Amazon S3 to store data
- B. Use Amazon EMR to process data and Amazon Redshift to store data
- C. Use Amazon EC2 to process data and Amazon Elastic Block Store (Amazon EBS) to store data
- D. Use Amazon Kinesis Data Analytics to process data and Amazon Elastic File System (Amazon EFS) to store data

**Correct Answer: B**

### **QUESTION 119**

A solutions architect is creating a new VPC design. There are two public subnets for the load balancer, two private subnets for web servers and two private subnets for MySQL. The web servers use only HTTPS. The solutions architect has already created a security group for the load balancer allowing port 443 from 0.0.0.0/0. Company policy requires that each resource has the least access required to still be able to perform its tasks. Which additional configuration strategy should the solutions architect use to meet these requirements?

- A. Create a security group for the web servers and allow port 443 from 0.0.0.0/0. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.
- B. Create a network ACL for the web servers and allow port 443 from 0.0.0.0/0. Create a network ACL (or the MySQL servers) and allow port 3306 from the web servers security group.
- C. Create a security group for the web servers and allow port 443 from the load balancer. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.
- D. Create a network ACL for the web servers and allow port 443 from the load balancer. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.

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**Correct Answer: C**

### **QUESTION 120**

A company is running an online transaction processing (OLTP) workload on AWS. This workload uses an unencrypted Amazon RDS DB instance in a Multi-AZ deployment. Daily database snapshots are taken from this instance. What should a solutions architect do to ensure the database and snapshots are always encrypted moving forward?

- A. Encrypt a copy of the latest DB snapshot. Replace existing DB instance by restoring the encrypted snapshot
- B. Create a new encrypted Amazon Elastic Block Store (Amazon EBS) volume and copy the snapshots to it. Enable encryption on the DB instance
- C. Copy the snapshots and enable encryption using AWS Key Management Service (AWS KMS). Restore encrypted snapshot to an existing DB instance
- D. Copy the snapshots to an Amazon S3 bucket that is encrypted using server-side encryption with AWS Key Management Service (AWS KMS) managed keys (SSE-KMS)

**Correct Answer: C**

### **QUESTION 121**

A security team needs to enforce the rotation of all IAM users' access keys every 90 days. If an access key is found to be older, the key must be made inactive and removed. A solutions architect must create a solution that will check for and remediate any keys older than 90 days. Which solution meets these requirements with the LEAST operational effort?

- A. Create an AWS Config rule to check for the key age. Configure the AWS Config rule to run an AWS Batch job to remove the key
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to check for the key age. Configure the rule to run an AWS Batch job to remove the key
- C. Create an AWS Config rule to check for the key age. Define an Amazon EventBridge (Amazon CloudWatch Events) rule to schedule an AWS Lambda function to remove the key
- D. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to check for the key age. Define an EventBridge (CloudWatch Events) rule to run an AWS Batch job to remove the key

**Correct Answer: C**

### **QUESTION 122**

A company is developing a real-time multiplayer game that uses UDP for communications between the client and servers. In an Auto Scaling group, spikes in demand are anticipated during the day, so the game server platform must adapt accordingly. Developers want to store gamer scores and other non-relational data in a database solution that will scale without intervention. Which solution should a solutions architect recommend?

- A. Use Amazon Route 53 for traffic distribution and Amazon Aurora Serverless for data storage
- B. Use a Network Load Balancer for traffic distribution and Amazon DynamoDB on-demand for data storage
- C. Use a Network Load Balancer for traffic distribution and Amazon Aurora Global Database for data storage
- D. Use an Application Load Balancer for traffic distribution and Amazon DynamoDB global tables for data storage

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**Correct Answer: B**

### **QUESTION 123**

A company has applications hosted on Amazon EC2 instances with IPv6 addresses. The applications must initiate communications with other external applications using the internet. However the company's security policy states that any external service cannot initiate a connection to the EC2 instances. What should a solutions architect recommend to resolve this issue?

- A. Create a NAT gateway and make it the destination of the subnet's route table
- B. Create an internet gateway and make it the destination of the subnet's route table
- C. Create a virtual private gateway and make it the destination of the subnet's route table
- D. Create an egress-only internet gateway and make it the destination of the subnet's route table

**Correct Answer: D**

### **QUESTION 124**

A company has a Windows-based application that must be migrated to AWS. The application requires the use of a shared Windows Me system attached to multiple Amazon EC2 Windows instances that are deployed across multiple Availability Zones. What should a solutions architect do to meet this requirement?

- A. Configure AWS Storage Gateway in volume gateway mode Mount the volume to each Windows instance
- B. Configure Amazon FSx for Windows File Server Mount the Amazon FSx file system to each Windows instance
- C. Configure a file system by using Amazon Elastic File System (Amazon EFS) Mount the EPS file system to each Windows instance
- D. Configure an Amazon Elastic Block Store (Amazon EBS) volume with the required size Attach each EC2 instance to the volume Mount the file system within the volume to each Windows instance

**Correct Answer: B**

### **QUESTION 125**

A company has an Amazon S3 bucket that contains confidential information in its production AWS account. The company has turned on AWS CloudTrail for the account. The account sends a copy of its logs to Amazon CloudWatch Logs. The company has configured the S3 bucket to log read and write data events. A company auditor discovers that some objects in the S3 bucket have been deleted. A solutions architect must provide the auditor with information about who deleted the objects. What should the solutions architect do to provide this information?

- A. Create a CloudWatch Logs filter to extract the S3 write API calls against the S3 bucket
- B. Query the CloudTrail logs with Amazon Athena to identify the S3 write API calls against the S3 bucket
- C. Use AWS Trusted Advisor to perform security checks for S3 writ?API calls that deleted the content
- D. Use AWS Config to track configuration changes on the S3 bucket Use these details to track the S3 write API calls that deleted the content

**Correct Answer: B**

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**QUESTION 126**

A company is building a new furniture inventory application. The company has deployed the application on a fleet of Amazon EC2 instances across multiple Availability Zones. The EC2 instances run behind an Application Load Balancer (ALB) in their VPC. A solutions architect has observed that incoming traffic seems to favor one EC2 instance resulting in latency for some requests. What should the solutions architect do to resolve this issue?

- A. Disable session affinity (sticky sessions) on the ALB
- B. Replace the ALB with a Network Load Balancer
- C. increase the number of EC2 instances in each Availability Zone
- D. Adjust the frequency of the health checks on the ALB's target group

**Correct Answer: B**

**QUESTION 127**

A recently created startup built a three-tier web application. The front end has static content. The application layer is based on microservices. User data is stored as JSON documents that need to be accessed with low latency. The company expects regular traffic to be low during the first year with peaks in traffic when it publicizes new features every month. The startup team needs to minimize operational overhead costs. What should a solutions architect recommend to accomplish this?

- A. Use Amazon S3 static website hosting to store and serve the front end Use AWS Elastic Beanstalk for the application layer Use Amazon DynamoDB to store user data
- B. Use Amazon S3 static website hosting to store and serve the front end Use Amazon Elastic Kubernetes Service (Amazon EKS) for the application layer Use Amazon DynamoDB to store user data
- C. Use Amazon S3 static website hosting to store and serve the front end Use Amazon API Gateway and AWS Lambda function for the application layer Use Amazon DynamoDB to store user data
- D. Use Amazon S3 static website hosting to store and serve the front end Use Amazon API Gateway and AWS Lambda function for the application layer Use Amazon RDS with read replicas to store user data

**Correct Answer: C**

**QUESTION 128**

A developer has a script to generate daily reports that users previously ran manually. The script consistently completes in under 10 minutes. The developer needs to automate this process in a cost-effective manner. Which combination of services should the developer use? (Select TWO.)

- A. AWS Lambda
- B. AWS CloudTrail
- C. Cron on an Amazon EC2 instance
- D. Amazon EC2 On-Demand Instance with user data
- E. Amazon EventBridge (Amazon CloudWatch Events)

**Correct Answer: AE**