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C.   Create an Aurora DB cluster snapshot Restore from the snapshot
D.   Configure an Aurora global database Set up a secondary DB cluster
E.   Promote one of the read replicas as a writer from the Amazon RDS console

**Correct Answer:** CD


**QUESTION 307**
A company has a remote factory that has unreliable connectivity. The factory needs to gather and process machine data and sensor data so that it can sense products on its conveyor belts and initiate a robotic movement to direct the products to the right location. Predictable low-latency compute processing is essential for the on-premises control systems. Which solution should the factory use to process the data?

A.   Amazon CloudFront lambda@edge functions
B.   An Amazon EC2 instance that has enhanced networking enabled
C.   An Amazon EC2 instance that uses an AWS Global Accelerator endpoint
D.   An Amazon Elastic Block Store (Amazon EBS) volume on an AWS Snowball Edge cluster

**Correct Answer:** A


**QUESTION 308**
A company wants to move from many standalone AWS accounts to a consolidated, multi-account architecture. The company plans to create many new AWS accounts for different business units. The company needs to authenticate access to these AWS accounts by using a centralized corporate directory service. Which combination of actions should a solutions architect recommend to meet these requirements? (Select TWO )

A.   Create a new organization in AWS Organizations with all features turned on. Create the new AWS accounts in the organization.
B.   Set up an Amazon Cognito identity pool. Configure AWS Single Sign-On to accept Amazon Cognito authentication.
C.   Configure a service control policy (SCP) to manage the AWS accounts. Add AWS Single Sign-On to AWS Directory Service.
D.   Create a new organization in AWS Organizations. Configure the organization's authentication mechanism to use AWS Directory Service directly.
E.   Set up AWS Single Sign-On (AWS SSO) in the organization. Configure AWS SSO and integrate it with the company's corporate directory service.

**Correct Answer:** AB


**QUESTION 309**
A solutions architect creates a VPC that includes two public subnets and two private subnets. A corporate security mandate requires the solutions architect to launch all Amazon EC2 instances in a private subnet. However when the solutions architect launches an EC2 instance that runs a web server on ports 80 and 443 in a private subnet, no external internet traffic can connect to the server. What should the solutions architect do to resolve this issue?

A.   Attach the EC2 instance to an Auto Scaling group in a private subnet. Ensure that the DNS record for the website resolves to the Auto Scaling group identifier.
B.   Provision an internet-facing Application Load Balancer (ALB) in a public subnet. Add the EC2 instance to the target group that is associated with the ALB. Ensure that the DNS record for the

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website resolves to the ALB.
C. Launch a NAT gateway in a private subnet Update the route table for the private subnets to add a default route to the NAT gateway. Attach a public Elastic IP address to the NAT gateway.
D. Ensure that the security group that is attached to the EC2 instance allows HTTP traffic on port 80 and HTTPS traffic on port 443. Ensure that the DNS record for the website resolves to the public IP address of the EC2 instance.

**Correct Answer:** A


**QUESTION 310**
A solution architect has created two IAM policies. Policy1 and Policy2 . Both policies are attached to an IAM group. A cloud engineer is added as an IAM user to the IAM group. Which action will the cloud engineer be able to perform?

```
Policy1
{
  "Version": "2012-10-17",  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "iam:Get*",
        "iam:List*",
        "kms:List*",
        "ec2:*",
        "ds:*",
        "logs:Get*",
        "logs:Describe*"
      ],
      "Resource": "*"
    }
  ]
}
```

```
Policy2
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Action": "ds:Delete*",
      "Resource": "*"
    }
  ]
}
```

A. Deleting IAM users
B. Deleting directories
C. Deleting Amazon EC2 instances
D. Deleting logs from Amazon CloudWatch Logs

**Correct Answer:** C


**QUESTION 311**
A company is planning to store data on Amazon RDS DB instances. The company must encrypt the data at rest. What should a solutions architect do to meet this requirement?

A. Create an encryption key and store the key in AWS Secrets Manager. Use the key to encrypt the DB instances.
B. Generate a certificate in AWS Certificate Manager (ACM). Enable SSL/TLS on the DB instances by using the certificate.
C. Create a customer master key (CMK) in AWS Key Management Service (AWS KMS). Enable encryption for the DB instances.
D. Generate a certificate in AWS Identity and Access Management (IAM). Enable SSUTLS on the DB instances by using the certificate.

**Correct Answer:** C

**QUESTION 312**
A company serves a multilingual website from a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB). This architecture is currently running in the us-west-1 Region but is exhibiting high request latency for users located in other parts of the world. The website needs to serve requests quickly and efficiently regardless of a user's location. However the company does not want to recreate the existing architecture across multiple Regions. How should a solutions architect accomplish this?

A. Replace the existing architecture with a website served from an Amazon S3 bucket. Configure an Amazon CloudFront distribution with the S3 bucket as the origin.
B. Configure an Amazon CloudFront distribution with the ALB as the origin. Set the cache behavior settings to only cache based on the Accept-Language request header.
C. Set up Amazon API Gateway with the ALB as an integration. Configure API Gateway to use an HTTP integration type Set up an API Gateway stage to enable the API cache.
D. Launch an EC2 instance in each additional Region and configure NGINX to act as a cache server for that Region. Put all the instances plus the ALB behind an Amazon Route 53 record set with a geolocation routing policy.

**Correct Answer:** D

**QUESTION 313**
A company is building a document storage application on AWS. The application runs on Amazon EC2 instances in multiple Availability Zones. The company requires the document store to be highly available. The documents need to be returned immediately when requested. The lead engineer has configured the application to use Amazon Elastic Block Store (Amazon EBS) to store the documents, but is willing to consider other options to meet the availability requirement. What should a solutions architect recommend?

A. Snapshot the EBS volumes regularly and build new volumes using those snapshots in additional Availability Zones.
B. Use Amazon EBS for the EC2 instance root volumes. Configure the application to build the document store on Amazon S3.
C. Use Amazon EBS for the EC2 instance root volumes. Configure the application to build the document store on Amazon S3 Glacier.
D. Use at least three Provisioned IOPS EBS volumes for EC2 instances. Mount the volumes to the EC2 instances in a RAID 5 configuration.

**Correct Answer:** B

**QUESTION 314**

A company's web application uses an Amazon RDS PostgreSQL DB instance to store its application data. During the financial closing period at the start of every month, Accountants run large queries that impact the database's performance due to high usage. The company wants to minimize the impact that the reporting activity has on the web application. What should a solutions architect do to reduce the impact on the database with the LEAST amount of effort?

A. Create a read replica and direct reporting traffic to the replica.
B. Create a Multi-AZ database and direct reporting traffic to the standby.
C. Create a cross-Region read replica and direct reporting traffic to the replica.
D. Create an Amazon Redshift database and direct reporting traffic to the Amazon Redshift database.

**Correct Answer:** A

**QUESTION 315**
A company has an AWS account used for software engineering. The AWS account has access to the company's on-premises data center through a pair of AWS Direct Connect connections. All non-VPC traffic routes to the virtual private gateway. A development team recently created an AWS Lambda function through the console. The development team needs to allow the function to access a database that runs in a private subnet in the company's data center. Which solution will meet these requirements'?

A. Configure the Lambda function to run in the VPC with the appropriate security group.
B. Set up a VPN connection from AWS to the data center. Route the traffic from the Lambda function through the VPN.
C. Update the route tables in the VPC to allow the Lambda function to access the on-premises data center through Direct Connect.
D. Create an Elastic IP address Configure the Lambda function to send traffic through the Elastic IP address without an elastic network interface.

**Correct Answer:** C

**QUESTION 316**
An online learning company is migrating to the AWS Cloud. The company maintains its student records in a PostgreSQL database. The company needs a solution in which its data is available and online across multiple AWS Regions at all times. Which solution will meet these requirements with the LEAST amount of operational overhead?

A. Migrate the PostgreSQL database to a PostgreSQL cluster on Amazon EC2 instances.
B. Migrate the PostgreSQL database to an Amazon RDS for PostgreSQL DB instance with the Multi-AZ feature turned on.
C. Migrate the PostgreSQL database to an Amazon RDS for PostgreSQL DB instance Create a read replica in another Region.
D. Migrate the PostgreSQL database to an Amazon RDS for PostgreSQL DB instance Set up DB snapshots to be copied to another Region.

**Correct Answer:** C

**QUESTION 317**
A company needs to migrate a large amount of data from an on-premises storage area network (SAN) to Amazon S3. The SAN currently has 200 TB of data and is receiving an additional 20 TB of data each month. The company has a 500 Mbps connection to the internet. What should the

company do to migrate the data to Amazon S3 in the LEAST amount of time?

A. Use a file syncing application to sync the data to Amazon S3 over the internet through a public S3 endpoint Sync any changed data the same way until the SAN is decommissioned.
B. Use an AWS Snowball Edge Storage Optimized device to migrate the initial 200 TB of data to Amazon S3 Sync any changed data by using AWS DataSync until the SAN is decommissioned.
C. C.Set up an AWS Site-to-Site VPN connection Use a file syncing application to sync the data to Amazon S3 through a private S3 endpoint Sync any changed data the same way until the SAN is decommissioned.
D. Set up a 10 Gbps AWS Direct Connect connection Migrate the initial 200 TB of data to Amazon S3 by using a file syncing application Sync any changed data the same way until the SAN is decommissioned.

**Correct Answer:** B


**QUESTION 318**
A company is planning to move a dynamic web application to AWS. Application assets are stored in a Linux file server. The total volume of data is 140 TB, and the company has 100 Mbps of internet bandwidth available. The company does not want to make any changes to the application during migration. File permissions must be preserved. How should a solutions architect migrate and store the data to meet these requirements?

A. Transfer the data by using the file interface for AWS Snowball. Use Amazon Elastic File System (Amazon EFS) as the migration destination and for storage.
B. Transfer the data by using the Amazon S3 interface for AWS Snowball. Use Amazon FSx for Lustre as the migration destination and for storage.
C. Transfer the data by using the AWS CLI s3 cp command. Use Amazon EC2 with Amazon Elastic Block Store (Amazon EBS) as the migration destination and for storage.
D. Transfer the data by using AWS DataSync. Use AWS Storage Gateway File Gateway as the migration destination and for storage.

**Correct Answer:** A


**QUESTION 319**
A large international university has deployed all of its compute services in the AWS Cloud. These services include Amazon EC2. Amazon RDS. and Amazon DynamoDB. The university currently relies on many custom scripts to back up its infrastructure. However, the university wants to centralize management and automate data backups as much as possible by using AWS native options. Which solution will meet these requirements?
A. Use third-party backup software with an AWS Storage Gateway tape gateway virtual tape library.
B. Use AWS Backup to configure and monitor all backups for the services in use.
C. Use AWS Config to set lifecycle management to take snapshots of all data sources on a schedule.
D. Use AWS Systems Manager State Manager to manage the configuration and monitoring of backup tasks.

**Correct Answer:** B


**QUESTION 320**
A company runs demonstration environments for its customers on Amazon EC2 instances. Each environment is isolated in its own VPC. The company's operations team needs to be notified when RDP or SSH access to an environment has been established. What should a solutions architect recommend to meet these requirements?