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to be separate to maintain security and prevent any resource sharing. A solutions architect needs to find a scalable and secure solution. What should the solutions architect recommend?

- A. Create an AWS Direct Connect connection and a VPN connection for each VPC to connect back to the data center.
- B. Create VPC peers from all the VPCs to the Production VPC. Use an AWS Direct Connect connection from the Production VPC back to the data center.
- C. Connect VPN connections from all the VPCs to a VPN in the Production VPC. Use a VPN connection from the Production VPC back to the data center.
- D. Create a new VPC called Network Within the Network VPC create an AWS Transit Gateway with an AWS Direct Connect connection back to the data center. Attach all the other VPCs to the Network VPC.

Correct Answer: D

QUESTION 12

A company has a stateless web application that runs on AWS Lambda functions that are invoked by Amazon API Gateway. The company wants to deploy the application across multiple AWS Regions to provide Regional failover capabilities. What should a solutions architect do to route traffic to multiple Regions?

- A. Configure Amazon Route 53 health checks for each Region. Use an active-active failover configuration.
- B. Create an Amazon CloudFront distribution with an origin for each Region. Use CloudFront health checks to route traffic.
- C. Create an AWS Transit Gateway Attach the transit gateway to the API Gateway endpoint in each Region. Configure the transit gateway to route requests.
- D. Use AWS Global Accelerator to create an accelerator with endpoints in each Region. Allow Global Accelerator to automatically monitor the health of endpoints and route requests.

Correct Answer: A

QUESTION 13

A company's packaged application dynamically creates and returns single-use text files in response to user requests. The company is using Amazon CloudFront for distribution but wants to further reduce data transfer costs. The company cannot modify the application's source code. What should a solutions architect do to reduce costs?

- A. Use Lambda@Edge to compress the files as they are sent to users.
- B. Enable Amazon S3 Transfer Acceleration to reduce the response times
- C. Enable caching on the CloudFront distribution to store generated files at the edge.
- D. Use Amazon S3 multipart uploads to move the files to Amazon S3 before returning them to users

Correct Answer: C

QUESTION 14

A company is hosting an application in its own data center. The application uses Amazon S3 for data storage. The application transfers several hundred terabytes of data every month to and from Amazon S3. The company needs to minimize the cost of this data transfer. Which solution

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meets this requirement?

- A. Establish an AWS Direct Connect connection between the AWS Region in use and the company's data center. Route traffic to Amazon S3 over the Direct Connect connection.
- B. Establish an AWS Site-to-Site VPN connection between the company's data center and a VPC in the AWS Region in use. Create a VPC endpoint for Amazon S3 in the VPC. Route traffic to Amazon S3 over the VPN connection to the S3 endpoint.
- C. Create an AWS Storage Gateway file gateway. Deploy the software appliance in the company's data center. Configure the application to use the file gateway to store and retrieve files.
- D. Create an FTPS server by using AWS Transfer Family. Configure the application to use the FTPS server to store and retrieve files.

Correct Answer: C

QUESTION 15

A solution architect at a company is designing the architecture for a two-tiered web application. The web application is composed of an internet facing application load balancer that forwards traffic to an auto scaling group of Amazon EC2 instances. The EC2 instances must be able to access a database that runs on Amazon RDS. The company has requested a defence-in-depth approach to the network layout. The company does not want to rely solely on security groups or network ACLs. Only the minimum resources that are necessary should be routable from the internet. Which network design should the solutions architect recommend to meet these requirements?

- A. Place the ALB, EC2 instances and RDS database in private subnets.
- B. Place the ALB in public subnets. Place the EC2 instances and RDS database in private subnets.
- C. Place the ALB and EC2 instances in public subnets. Place the RDS database in private subnets.
- D. Place the ALB outside the VPC. Place the EC2 instances and RDS database in private subnets.

Correct Answer: C

QUESTION 16

A company has created an isolated backup of its environment in another Region. The application is running in warm standby mode and is fronted by an Application Load Balancer (ALB). The current failover process is manual and requires updating a DNS alias record to point to the secondary ALB in another Region. What should a solutions architect do to automate the failover process?

- A. Enable an ALB health check
- B. Enable an Amazon Route 53 health check
- C. Create a CNAME record on Amazon Route 53 pointing to the ALB endpoint.
- D. Create conditional forwarding rules on Amazon Route 53 pointing to an internal BIND DNS server

Correct Answer: B

QUESTION 17

A company stores project information in a shared spreadsheet. The company wants to create a web application to replace the spreadsheet. The company has chosen Amazon DynamoDB to store the spreadsheet's data and is designing the web application to display the project information that is obtained from DynamoDB. A solutions architect must design the web

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application's backend by using managed services that require minimal operational maintenance. Which architectures meet these requirements? (Select TWO.)

- A. An Amazon API Gateway REST API accesses the project information that is in DynamoDB.
- B. An Elastic Load Balancer forwards requests to a target group with DynamoDB set up as the target.
- C. An Amazon API Gateway REST API invokes an AWS Lambda function. The Lambda function accesses DynamoDB.
- D. An Amazon Route 53 hosted zone routes requests to an AWS Lambda endpoint to invoke a Lambda function that accesses DynamoDB.
- E. An Elastic Load Balancer forwards requests to a target group of Amazon EC2 instances. The EC2 instances run an application that accesses DynamoDB.

Correct Answer: AE

QUESTION 18

A medical records company is hosting an application on Amazon EC2 instances. The application processes customer data files that are stored on Amazon S3. The EC2 instances are hosted in public subnets. The EC2 instances access Amazon S3 over the internet, but they do not require any other network access. A new requirement mandates that the network traffic for file transfers take a private route and not be sent over the internet. Which change to the network architecture should a solutions architect recommend to meet this requirement?"

- A. Create a NAT gateway. Configure the route table for the public subnets to send traffic to Amazon S3 through the NAT gateway.
- B. Configure the security group for the EC2 instances to restrict outbound traffic so that only traffic to the S3 prefix list is permitted.
- C. Move the EC2 instances to private subnets. Create a VPC endpoint for Amazon S3, and link the endpoint to the route table for the private subnets.
- D. Remove the internet gateway from the VPC. Set up an AWS Direct Connect connection, and route traffic to Amazon S3 over the Direct Connect connection.

Correct Answer: C

QUESTION 19

A solutions architect must design a solution that uses Amazon CloudFront with an Amazon S3 origin to store a static website. The company's security policy requires that all website traffic be inspected by AWS WAF. How should the solutions architect comply with these requirements?

- A. Configure an S3 bucket policy to accept requests coming from the AWS WAF Amazon Resource Name (ARN) only.
- B. Configure Amazon CloudFront to forward all incoming requests to AWS WAF before requesting content from the S3 origin.
- C. Configure a security group that allows Amazon CloudFront IP addresses to access Amazon S3 only. Associate AWS WAF to CloudFront.
- D. Configure Amazon CloudFront and Amazon S3 to use an origin access identity (OAI) to restrict access to the S3 bucket. Enable AWS WAF on the distribution.

Correct Answer: B

QUESTION 20

A company is running a highly sensitive application on Amazon EC2 backed by an Amazon RDS database. Compliance regulations mandate that all personally identifiable information (PII) be

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encrypted at rest. Which solution should a solutions architect recommend to meet this requirement with the LEAST amount of changes to the infrastructure?

- A. Deploy AWS Certificate Manager to generate certificates. Use the certificates to encrypt the database volume.
- B. Deploy AWS CloudHSM, generate encryption keys, and use the customer master key (CMK) to encrypt database volumes.
- C. Configure SSL encryption using AWS Key Management Service customer master keys (AWS KMS CMKs) to encrypt database volumes.
- D. Configure Amazon Elastic Block Store (Amazon EBS) encryption and Amazon RDS encryption with AWS Key Management Service (AWS KMS) keys to encrypt instance and database volumes.

Correct Answer: D

QUESTION 21

A company is developing a serverless web application that gives users the ability to interact with real-time analytics from online games. The data from the games must be streamed in real time. The company needs a durable, low-latency database option for user data. The company does not know how many users will use the application. Any design considerations must provide response times of single-digit milliseconds as the application scales. Which combination of AWS services will meet these requirements? (Select TWO.)

- A. Amazon CloudFront
- B. Amazon DynamoDB
- C. Amazon Kinesis
- D. Amazon RDS
- E. AWS Global Accelerator

Correct Answer: BC

QUESTION 22

A company needs a storage solution for an application that runs on a high performance computing (HPC) cluster. The cluster is hosted on AWS Fargate for Amazon Elastic Container Service (Amazon ECS). The company needs a mountable file system that provides concurrent access to files while delivering hundreds of GBps of throughput at sub-millisecond latencies. Which solution meets these requirements?

- A. Create an Amazon FSx for Lustre file share for the application data. Create an IAM role that allows Fargate to access the FSx for Lustre file share.
- B. Create an Amazon Elastic File System (Amazon EFS) file share for the application data. Create an IAM role that allows Fargate to access the EFS file share.
- C. Create an Amazon S3 bucket for the application data. Create an S3 bucket policy that allows Fargate to access the S3 bucket.
- D. Create an Amazon Elastic Block Store (Amazon EBS) Provisioned IOPS SSD (io2) volume for the application data. Create an IAM role that allows Fargate to access the volume.

Correct Answer: A

QUESTION 23

A company's website runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The website has a mix of dynamic and static content. Users around the globe are reporting that the website is slow. Which set of actions will improve website performance for users worldwide?

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- A. Create an Amazon CloudFront distribution and configure the ALB as an origin. Then update the Amazon Route 53 record to point to the CloudFront distribution.
- B. Create a latency-based Amazon Route 53 record for the ALB. Then launch new EC2 instances with larger instance sizes and register the instances with the ALB.
- C. Launch new EC2 instances hosting the same web application in different Regions closer to the users. Then register the instances with the same ALB using cross-Region VPC peering.
- D. Host the website in an Amazon S3 bucket in the Regions closest to the users and delete the ALB and EC2 instances. Then update an Amazon Route 53 record to point to the S3 buckets.

Correct Answer: A

QUESTION 24

A company hosts its multi-tier, public web application in the AWS Cloud. The web application runs on Amazon EC2 instances and its database runs on Amazon RDS. The company is anticipating a large increase in sales during an upcoming holiday weekend. A solutions architect needs to build a solution to analyze the performance of the web application with a granularity of no more than 2 minutes. What should the solutions architect do to meet this requirement?

- A. Send Amazon CloudWatch logs to Amazon Redshift. Use Amazon QuickSight to perform further analysis.
- B. Enable detailed monitoring on all EC2 instances. Use Amazon CloudWatch metrics to perform further analysis.
- C. Create an AWS Lambda function to fetch EC2 logs from Amazon CloudWatch Logs. Use Amazon CloudWatch metrics to perform further analysis.
- D. Send EC2 logs to Amazon S3. Use Amazon Redshift to fetch logs from the S3 bucket to process raw data for further analysis with Amazon QuickSight.

Correct Answer: B

QUESTION 25

A company receives data from millions of users totalling about 1 TB each day. The company provides its users with usage report going back 12 months. All usage data must be stored for at least 5 years to comply with regulatory and auditing requirements. Which storage solution is MOST cost-effective?

- A. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 Glacier Deep Archive after 1 year. Set a lifecycle rule to delete the data after 5 years.
- B. Store the data in Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA). Set a lifecycle rule to transition the data to S3 Glacier after 1 year. Set the lifecycle rule to delete the data after 5 years.
- C. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 Standard-Infrequent Access (S3 Standard-IA) after 1 year. Set a lifecycle rule to delete the data after 5 years.
- D. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 1 year. Set a lifecycle rule to delete the data after 5 years.

Correct Answer: A

QUESTION 26

A company has been running a web application with an Oracle relational database in an on-

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