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**QUESTION 1**

A company has registered 10 new domain names. The company uses the domains for online marketing. The company needs a solution that will redirect online visitors to a specific URL for each domain. All domains and target URLs are defined in a JSON document. All DNS records are managed by Amazon Route 53.

A solutions architect must implement a redirect service that accepts HTTP and HTTPS requests.

Which combination of steps should the solutions architect take to meet these requirements with the LEAST amount of operational effort? (Choose three.)

- A. Create a dynamic webpage that runs on an Amazon EC2 instance. Configure the webpage to use the JSON document in combination with the event message to look up and respond with a redirect URL.
- B. Create an Application Load Balancer that includes HTTP and HTTPS listeners.
- C. Create an AWS Lambda function that uses the JSON document in combination with the event message to look up and respond with a redirect URL.
- D. Use an Amazon API Gateway API with a custom domain to publish an AWS Lambda function.
- E. Create an Amazon CloudFront distribution. Deploy a Lambda@Edge function.
- F. Create an SSL certificate by using AWS Certificate Manager (ACM). Include the domains as Subject Alternative Names.

Correct Answer: CEF

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/lambda-edge-how-it-works-tutorial.html>

QUESTION 2

A solutions architect has implemented a SAML 2.0 federated identity solution with their company's on-premises identity provider (IdP) to authenticate users' access to the AWS environment. When the solutions architect tests authentication through the federated identity web portal access to the AWS environment is granted. However, when test users attempt to authenticate through the federated identity web portal, they are not able to access the AWS environment.

Which items should the solutions architect check to ensure identity federation is properly configured? (Select THREE)

- A. The IAM user's permissions policy has allowed the use of SAML federation for that user
- B. The IAM roles created for the federated users' or federated groups' trust policy have set the SAML provider as the principle.
- C. Test users are not in the AWSFederatedUsers group in the company's IdP
- D. The web portal calls the AWS STS AssumeRoleWithSAML API with the ARN of the SAML provider the ARN of the IAM role, and the SAML assertion from IdP
- E. The on-premises IdP's DNS hostname is reachable from the AWS environment VPCs.
- F. The company's IdP defines SAML assertions that properly map users or groups in the company to IAM roles with appropriate permissions



Correct Answer: BDF

QUESTION 3

A company is using an organization in AWS Organizations to manage hundreds of AWS accounts. A solutions architect is working on a solution to provide baseline protection for the Open Web Application Security Project (OWASP) top 10 web application vulnerabilities. The solutions architect is using AWS WAF for all existing and new Amazon CloudFront distributions that are deployed within the organization.

Which combination of steps should the solutions architect take to provide the baseline protection? (Select THREE.)

- A. Enable AWS Config in all accounts.
- B. Enable Amazon GuardDuty in all accounts.
- C. Enable all features for the organization.
- D. Use AWS Firewall Manager to deploy AWS WAF rules in all accounts for all CloudFront distributions.
- E. Use AWS Shield Advanced to deploy AWS WAF rules in all accounts for all CloudFront distributions.
- F. Use AWS Security Hub to deploy AWS WAF rules in all accounts for all CloudFront distributions.

Correct Answer: CDE

Enabling all features for the organization will enable using AWS Firewall Manager to centrally configure and manage firewall rules across multiple AWS accounts¹. Using AWS Firewall Manager to deploy AWS WAF rules in all accounts for all CloudFront distributions will enable providing baseline protection for the OWASP top 10 web application vulnerabilities². AWS Firewall Manager supports AWS WAF rules that can help protect against common web exploits such as SQL injection and cross-site scripting³. Configuring redirection of HTTP requests to HTTPS requests in CloudFront will enable encrypting the data in transit using SSL/TLS.

QUESTION 4

A solutions architect is designing an application to accept timesheet entries from employees on their mobile devices. Timesheets will be submitted weekly, with most of the submissions occurring on Friday. The data must be stored in a format that allows payroll administrators to run monthly reports. The infrastructure must be highly available and scale to match the rate of incoming data and reporting requests.

Which combination of steps meets these requirements while minimizing operational overhead? (Select TWO.)

- A. Deploy the application to Amazon EC2 On-Demand Instances With load balancing across multiple Availability Zones. Use scheduled Amazon EC2 Auto Scaling to add capacity before the high volume of submissions on Fridays.
- B. Deploy the application in a container using Amazon Elastic Container Service (Amazon ECS) with load balancing across multiple Availability Zones. Use scheduled Service Auto Scaling to add capacity before the high volume of submissions on Fridays.
- C. Deploy the application front end to an Amazon S3 bucket served by Amazon CloudFront. Deploy the application backend using Amazon API Gateway with an AWS Lambda proxy integration.
- D. Store the timesheet submission data in Amazon Redshift. Use Amazon QuickSight to generate the reports using Amazon Redshift as the data source.



E. Store the timesheet submission data in Amazon S3. Use Amazon Athena and Amazon QuickSight to generate the reports using Amazon S3 as the data source.

Correct Answer: AE

QUESTION 5

A company has developed a hybrid solution between its data center and AWS. The company uses Amazon VPC and Amazon EC2 instances that send application logs to Amazon CloudWatch. The EC2 instances read data from multiple relational databases that are hosted on premises.

The company wants to monitor which EC2 instances are connected to the databases in near-real time. The company already has a monitoring solution that uses Splunk on premises. A solutions architect needs to determine how to send networking traffic to Splunk.

How should the solutions architect meet these requirements?

- A. Enable VPC flows logs, and send them to CloudWatch. Create an AWS Lambda function to periodically export the CloudWatch logs to an Amazon S3 bucket by using the pre-defined export function. Generate ACCESS_KEY and SECRET_KEY AWS credentials. Configure Splunk to pull the logs from the S3 bucket by using those credentials.
- B. Create an Amazon Kinesis Data Firehose delivery stream with Splunk as the destination. Configure a pre-processing AWS Lambda function with a Kinesis Data Firehose stream processor that extracts individual log events from records sent by CloudWatch Logs subscription filters. Enable VPC flows logs, and send them to CloudWatch. Create a CloudWatch Logs subscription that sends log events to the Kinesis Data Firehose delivery stream.
- C. Ask the company to log every request that is made to the databases along with the EC2 instance IP address. Export the CloudWatch logs to an Amazon S3 bucket. Use Amazon Athena to query the logs grouped by database name. Export Athena results to another S3 bucket. Invoke an AWS Lambda function to automatically send any new file that is put in the S3 bucket to Splunk.
- D. Send the CloudWatch logs to an Amazon Kinesis data stream with Amazon Kinesis Data Analytics for SQL Applications. Configure a 1 -minute sliding window to collect the events. Create a SQL query that uses the anomaly detection template to monitor any networking traffic anomalies in near-real time. Send the result to an Amazon Kinesis Data Firehose delivery stream with Splunk as the destination.

Correct Answer: B

<https://docs.aws.amazon.com/firehose/latest/dev/creating-the-stream-to-splunk.html>

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