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QUESTION 1

A company that has multiple AWS accounts is using AWS Organizations. The company's AWS accounts host VPCs, Amazon EC2 instances, and containers.

The company's compliance team has deployed a security tool in each VPC where the company has deployments. The security tools run on EC2 instances and send information to the AWS account that is dedicated for the compliance team. The company has tagged all the compliance-related resources with a key of "costCenter" and a value of "compliance".

The company wants to identify the cost of the security tools that are running on the EC2 instances so that the company can charge the compliance team's AWS account. The cost calculation must be as accurate as possible.

What should a solutions architect do to meet these requirements?

- A. In the management account of the organization, activate the costCenter user-defined tag. Configure monthly AWS Cost and Usage Reports to save to an Amazon S3 bucket in the management account. Use the tag breakdown in the report to obtain the total cost for the costCenter tagged resources.
- B. In the member accounts of the organization, activate the costCenter user-defined tag. Configure monthly AWS Cost and Usage Reports to save to an Amazon S3 bucket in the management account. Schedule a monthly AWS Lambda function to retrieve the reports and calculate the total cost for the costCenter tagged resources.
- C. In the member accounts of the organization activate the costCenter user-defined tag. From the management account, schedule a monthly AWS Cost and Usage Report. Use the tag breakdown in the report to calculate the total cost for the costCenter tagged resources.
- D. Create a custom report in the organization view in AWS Trusted Advisor. Configure the report to generate a monthly billing summary for the costCenter tagged resources in the compliance team's AWS account.

Correct Answer: A

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/custom-tags.html>

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/configurecostallocreport.html>

QUESTION 2

A company wants to change its internal cloud billing strategy for each of its business units. Currently, the cloud governance team shares reports for overall cloud spending with the head of each business unit. The company uses AWS Organizations to manage the separate AWS accounts for each business unit. The existing tagging standard in Organizations includes the application, environment, and owner. The cloud governance team wants a centralized solution so each business unit receives monthly reports on its cloud spending. The solution should also send notifications for any cloud spending that exceeds a set threshold.

Which solution is the MOST cost-effective way to meet these requirements?

- A. Configure AWS Budgets in each account and configure budget alerts that are grouped by application, environment, and owner. Add each business unit to an Amazon SNS topic for each alert. Use Cost Explorer in each account to create monthly reports for each business unit.
- B. Configure AWS Budgets in the organization's master account and configure budget alerts that are grouped by application, environment, and owner. Add each business unit to an Amazon SNS topic for each alert. Use Cost Explorer in the organization's master account to create monthly reports for each business unit.



C. Configure AWS Budgets in each account and configure budget alerts that are grouped by application, environment, and owner. Add each business unit to an Amazon SNS topic for each alert. Use the AWS Billing and Cost Management dashboard in each account to create monthly reports for each business unit.

D. Enable AWS Cost and Usage Reports in the organization's master account and configure reports grouped by application, environment, and owner. Create an AWS Lambda function that processes AWS Cost and Usage Reports, sends budget alerts, and sends monthly reports to each business unit's email list.

Correct Answer: B

Configure AWS Budgets in the organization's master account and configure budget alerts that are grouped by application, environment, and owner. Add each business unit to an Amazon SNS topic for each alert. Use Cost Explorer in the organization's master account to create monthly reports for each business unit. <https://aws.amazon.com/about-aws/whats-new/2019/07/introducing-aws-budgets-reports/#:~:text=AWS%20Budgets%20gives%20you%20the,below%20the%20threshold%20you%20define.>

QUESTION 3

A company is building a serverless application that runs on an AWS Lambda function that is attached to a VPC. The company needs to integrate the application with a new service from an external provider. The external provider supports only requests that come from public IPv4 addresses that are in an allow list.

The company must provide a single public IP address to the external provider before the application can start using the new service.

Which solution will give the application the ability to access the new service?

A. Deploy a NAT gateway. Associate an Elastic IP address with the NAT gateway. Configure the VPC to use the NAT gateway.

B. Deploy an egress-only internet gateway. Associate an Elastic IP address with the egress-only internet gateway. Configure the elastic network interface on the Lambda function to use the egress-only internet gateway.

C. Deploy an internet gateway. Associate an Elastic IP address with the internet gateway. Configure the Lambda function to use the internet gateway.

D. Deploy an internet gateway. Associate an Elastic IP address with the internet gateway. Configure the default route in the public VPC route table to use the internet gateway.

Correct Answer: A

This solution will give the Lambda function access to the internet by routing its outbound traffic through the NAT gateway, which has a public Elastic IP address. This will allow the external provider to whitelist the single public IP address associated with the NAT gateway, and enable the application to access the new service.

Deploying a NAT gateway and associating an Elastic IP address with it, and then configuring the VPC to use the NAT gateway, will give the application the ability to access the new service. This is because the NAT gateway will be the single public IP address that the external provider needs for the allow list. The NAT gateway will allow the application to access the service, while keeping the underlying Lambda functions private. When configuring NAT gateways, you should ensure that the route table associated with the NAT gateway has a route to the internet gateway with a target of the internet gateway. Additionally, you should ensure that the security group associated with the NAT gateway allows outbound traffic from the Lambda functions. References: AWS Certified Solutions Architect Professional Official Amazon Text Book [1], page 456 https://docs.aws.amazon.com/vpc/latest/userguide/VPC_NAT_Gateway.html

**QUESTION 4**

A video streaming company recently launched a mobile app for video sharing. The app uploads various files to an Amazon S3 bucket in the us-east-1 Region. The files range in size from 1 GB to 10 GB.

Users who access the app from Australia have experienced uploads that take long periods of time. Sometimes the files fail to completely upload for these users. A solutions architect must improve the app's performance for these uploads.

Which solutions will meet these requirements? (Select TWO.)

- A. Enable S3 Transfer Acceleration on the S3 bucket. Configure the app to use the Transfer Acceleration endpoint for uploads.
- B. Configure an S3 bucket in each Region to receive the uploads. Use S3 Cross-Region Replication to copy the files to the distribution S3 bucket.
- C. Set up Amazon Route 53 with latency-based routing to route the uploads to the nearest S3 bucket Region.
- D. Configure the app to break the video files into chunks. Use a multipart upload to transfer files to Amazon S3.
- E. Modify the app to add random prefixes to the files before uploading.

Correct Answer: AD

<https://aws.amazon.com/premiumsupport/knowledge-center/s3-upload-large-files/> Enabling S3 Transfer Acceleration on the S3 bucket and configuring the app to use the Transfer Acceleration endpoint for uploads will improve the app's performance for these uploads by leveraging Amazon CloudFront's globally distributed edge locations to accelerate the uploads. Breaking the video files into chunks and using a multipart upload to transfer files to Amazon S3 will also improve the app's performance by allowing parts of the file to be uploaded in parallel, reducing the overall upload time.

QUESTION 5

A company is building an application on AWS. The application sends logs to an Amazon Elasticsearch Service (Amazon ES) cluster for analysis. All data must be stored within a VPC.

Some of the company's developers work from home. Other developers work from three different company office locations. The developers need to access

Amazon ES to analyze and visualize logs directly from their local development machines.

Which solution will meet these requirements?

- A. Configure and set up an AWS Client VPN endpoint. Associate the Client VPN endpoint with a subnet in the VPC. Configure a Client VPN self-service portal. Instruct the developers to connect by using the client for Client VPN.
- B. Create a transit gateway, and connect it to the VPC. Create an AWS Site-to-Site VPN. Create an attachment to the transit gateway. Instruct the developers to connect by using an OpenVPN client.
- C. Create a transit gateway, and connect it to the VPC. Order an AWS Direct Connect connection. Set up a public VIF on the Direct Connect connection. Associate the public VIF with the transit gateway. Instruct the developers to connect to the Direct Connect connection.
- D. Create and configure a bastion host in a public subnet of the VPC. Configure the bastion host security group to allow



SSH access from the company CIDR ranges. Instruct the developers to connect by using SSH.

Correct Answer: A

This option allows the company to use AWS Client VPN to enable secure and private access to the Amazon ES cluster from any location¹. By configuring and setting up an AWS Client VPN endpoint, the company can create a secure tunnel

between the developers\' devices and the VPC². By associating the Client VPN endpoint with a subnet in the VPC, the company can ensure that the traffic from the developers\' devices is routed to the Amazon ES cluster within the VPC³.
By

configuring a Client VPN self-service portal, the company can enable the developers to download and install the client for Client VPN, which is based on OpenVPN⁴. By instructing the developers to connect by using the client for Client VPN,

the company can allow them to access Amazon ES to analyze and visualize logs directly from their local development machines.

References:

What is AWS Client VPN?

Creating a Client VPN endpoint

Associating a target network with a Client VPN endpoint
Configuring a self-service portal

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