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The Amazon SAP-C02 exam covers a wide range of topics related to AWS solutions architecture, including designing and deploying highly available, fault-tolerant, and scalable systems on AWS, selecting the appropriate AWS services based on specific requirements, and optimizing the performance of AWS services. It also covers topics such as security and compliance, cost optimization, and migration of existing workloads to AWS.

The SAP-C02 certification exam is a challenging and rigorous test that requires a significant amount of preparation and study. However, obtaining this certification can be a career-changing achievement for professionals who work with AWS. By passing the SAP-C02 Exam, candidates can demonstrate their expertise in designing and deploying complex AWS solutions, which can translate into higher salaries, better job opportunities, and increased credibility in the industry.

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Passing the Amazon SAP-C02 Certification Exam can open up numerous career opportunities in the field of cloud computing. It demonstrates to potential employers that you have the technical skills and knowledge required to design and manage complex AWS solutions that meet business requirements. Additionally, the certification can help you command a higher salary and increase your earning potential.

## Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample

## Questions (Q583-Q588):

### NEW QUESTION # 583

A company wants to migrate its website from an on-premises data center onto AWS. At the same time, it wants to migrate the website to a containerized microservice-based architecture to improve the availability and cost efficiency. The company's security policy states that privileges and network permissions must be configured according to best practice, using least privilege.

A Solutions Architect must create a containerized architecture that meets the security requirements and has deployed the application to an Amazon ECS cluster.

What steps are required after the deployment to meet the requirements? (Choose two.)

- A. Create tasks using the awsvpc network mode.
- B. Apply security groups to the tasks, and use IAM roles for tasks to access other resources.
- C. Apply security groups to the tasks, and pass IAM credentials into the container at launch time to access other resources.
- D. Create tasks using the bridge network mode.
- E. Apply security groups to Amazon EC2 instances, and use IAM roles for EC2 instances to access other resources.

**Answer: A,B**

Explanation:

<https://aws.amazon.com/about-aws/whats-new/2017/11/amazon-ecs-introduces-awsvpc-networking-mode-for-containers-to-support-full-networking-capabilities/>

### NEW QUESTION # 584

A solutions architect wants to cost-optimize and appropriately size Amazon EC2 instances in a single AWS account. The solutions architect wants to ensure that the instances are optimized based on CPU, memory, and network metrics.

Which combination of steps should the solutions architect take to meet these requirements? (Choose two.)

- A. Turn on AWS Trusted Advisor and review any "Low Utilization Amazon EC2 Instances" recommendations.
- B. Create an EC2 Instance Savings Plan for the AWS Regions, instance families, and operating systems of interest.
- C. Install the Amazon CloudWatch agent and configure memory metric collection on the EC2 instances.
- D. Configure AWS Compute Optimizer in the AWS account to receive findings and optimization recommendations.
- E. Purchase AWS Business Support or AWS Enterprise Support for the account.

**Answer: A,D**

Explanation:

AWS Trusted Advisor is a service that provides real-time guidance to help users provision their resources following AWS best practices<sup>1</sup>. One of the Trusted Advisor checks is "Low Utilization Amazon EC2 Instances", which identifies EC2 instances that appear to be underutilized based on CPU, network I/O, and disk I/O metrics<sup>1</sup>. This check can help users optimize the cost and size of their EC2 instances by recommending smaller or more appropriate instance types.

AWS Compute Optimizer is a service that analyzes the configuration and utilization metrics of AWS resources and generates optimization recommendations to reduce the cost and improve the performance of workloads<sup>2</sup>. Compute Optimizer supports four types of AWS resources: EC2 instances, EBS volumes, ECS services on AWS Fargate, and Lambda functions<sup>2</sup>. For EC2 instances, Compute Optimizer evaluates the vCPUs, memory, storage, and other specifications, as well as the CPU utilization, network in and out, disk read and write, and other utilization metrics of currently running instances<sup>3</sup>. It then recommends optimal instance types based on price-performance trade-offs.

Option A is incorrect because purchasing AWS Business Support or AWS Enterprise Support for the account will not directly help with cost-optimization and sizing of EC2 instances. However, these support plans do provide access to more Trusted Advisor checks than the basic support plan<sup>1</sup>.

Option C is incorrect because installing the Amazon CloudWatch agent and configuring memory metric collection on the EC2 instances will not provide any optimization recommendations by itself. However, memory metrics can be used by Compute Optimizer to enhance its recommendations if enabled<sup>3</sup>.

Option E is incorrect because creating an EC2 Instance Savings Plan for the AWS Regions, instance families, and operating systems of interest will not help with cost-optimization and sizing of EC2 instances. Savings Plans are a flexible pricing model that offer lower prices on Amazon EC2 usage in exchange for a commitment to a consistent amount of usage for a 1- or 3-year term<sup>4</sup>. Savings Plans do not affect the configuration or utilization of EC2 instances.

### NEW QUESTION # 585

A team collects and routes behavioral data for an entire company. The company runs a Multi-AZ VPC environment with public subnets, private subnets, and an internet gateway. Each public subnet also contains a NAT gateway. Most of the company's applications read from and write to Amazon Kinesis Data Streams. Most of the workloads are in private subnets.

A solutions architect must review the infrastructure. The solutions architect needs to reduce costs and maintain the function of the applications. The solutions architect uses Cost Explorer and notices that the cost in the EC2-Other category is consistently high. A further review shows that NatGateway-Bytes charges are increasing the cost in the EC2-Other category.

What should the solutions architect do to meet these requirements?

- A. Enable VPC Flow Logs and Amazon Detective. Review Detective findings for traffic that is not related to Kinesis Data Streams. Configure security groups to block that traffic.
- B. Add an interface VPC endpoint for Kinesis Data Streams to the VPC. Ensure that the VPC endpoint policy allows traffic from the applications.
- C. Add an interface VPC endpoint for Kinesis Data Streams to the VPC. Ensure that applications have the correct IAM permissions to use the interface VPC endpoint.
- D. Enable VPC Flow Logs. Use Amazon Athena to analyze the logs for traffic that can be removed. Ensure that security groups are blocking traffic that is responsible for high costs.

**Answer: B**

Explanation:

<https://docs.aws.amazon.com/vpc/latest/privatelink/vpc-endpoints-access.html>

<https://aws.amazon.com/premiumsupport/knowledge-center/vpc-reduce-nat-gateway-transfer-costs/> VPC endpoint policies enable you to control access by either attaching a policy to a VPC endpoint or by using additional fields in a policy that is attached to an IAM user, group, or role to restrict access to only occur via the specified VPC endpoint

#### NEW QUESTION # 586

A company is hosting an image-processing service on AWS in a VPC. The VPC extends across two Availability Zones. Each Availability Zone contains one public subnet and one private subnet.

The service runs on Amazon EC2 instances in the private subnets. An Application Load Balancer in the public subnets is in front of the service.

The service needs to communicate with the internet and does so through two NAT gateways.

The service uses Amazon S3 for image storage.

The EC2 instances retrieve approximately 1 of data from an S3 bucket each day.

The company has promoted the service as highly secure. A solutions architect must reduce cloud expenditures as much as possible without compromising the service's security posture or increasing the time spent on ongoing operations.

Which solution will meet these requirements?

- A. Replace the NAT gateways with NAT instances. In the VPC route table, create a route from the private subnets to the NAT instances.
- B. Set up an S3 gateway VPC endpoint in the VPC. Attach an endpoint policy to the endpoint to allow the required actions on the S3 bucket.
- C. Attach an Amazon Elastic File System (Amazon EFS) volume to the EC2 instances. Host the image on the EFS volume.
- D. Move the EC2 instances to the public subnets. Remove the NAT gateways.

**Answer: B**

Explanation:

Create Amazon S3 gateway endpoint in the VPC and add a VPC endpoint policy. This VPC endpoint policy will have a statement that allows S3 access only via access points owned by the organization.

#### NEW QUESTION # 587

A company needs to architect a hybrid DNS solution. This solution will use an Amazon Route 53 private hosted zone for the domain `cloud.example.com` for the resources stored within VPCs.

The company has the following DNS resolution requirements:

\* On-premises systems should be able to resolve and connect to `cloud.example.com`

\* All VPCs should be able to resolve `cloud.example.com`

There is already an AWS Direct Connect connection between the on-premises corporate network and AWS Transit Gateway. Which architecture should the company use to meet these requirements with the HIGHEST performance?

- A. Associate the private hosted zone to all the VPCs. Create a Route 53 inbound resolver in the shared services VPC. Attach all VPCs to the transit gateway and create forwarding rules in the on-premises DNS server for cloud.example.com that point to the inbound resolver.
- B. Associate the private hosted zone to the shared services VPC. Create a Route 53 outbound resolver in the shared services VPC. Attach all VPCs to the transit gateway and create forwarding rules in the on-premises DNS server for cloud.example.com that point to the outbound resolver.
- C. Associate the private hosted zone to all the VPCs. Deploy an Amazon EC2 conditional forwarder in the shared services VPC. Attach all VPCs to the transit gateway and create forwarding rules in the on-premises DNS server for cloud.example.com that point to the conditional forwarder.
- D. Associate the private hosted zone to the shared services VPC. Create a Route 53 inbound resolver in the shared services VPC. Attach the shared services VPC to the transit gateway and create forwarding rules in the on-premises DNS server for cloud.example.com that point to the inbound resolver.

**Answer: A**

### Explanation:

Amazon Route 53 Resolver is a managed DNS resolver service from Route 53 that helps to create conditional forwarding rules to redirect query traffic<sup>1</sup>. By associating the private hosted zone to all the VPCs, the solutions architect can enable DNS resolution for `cloud.example.com` within the VPCs. By creating a Route 53 inbound resolver in the shared services VPC, the solutions architect can enable DNS resolution for `cloud.example.com` from on-premises systems. By attaching all VPCs to the transit gateway, the solutions architect can enable connectivity between the VPCs and the on-premises network through AWS Direct Connect. By creating forwarding rules in the on-premises DNS server for `cloud.example.com` that point to the inbound resolver, the solutions architect can direct DNS queries for `cloud.example.com` to the Route 53 Resolver endpoint in AWS. This solution will provide the highest performance as it leverages Route 53 Resolver's optimized routing and caching capabilities.

## NEW QUESTION # 588

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