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Amazon SAP-C02 (AWS Certified Solutions Architect - Professional) certification exam is designed for experienced solutions architects who have a deep understanding of AWS services and can design and deploy scalable, highly available, and fault-tolerant systems in the cloud. SAP-C02 exam tests the candidate's ability to design and deploy complex applications on AWS, implement security controls, and manage operations in an efficient and cost-effective manner. AWS Certified Solutions Architect - Professional (SAP-C02) certification is the highest level of AWS certification and is recommended for professionals who have several years of experience designing and deploying cloud architecture solutions.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q640-Q645):

NEW QUESTION # 640

A research company conducts mathematical simulations in the AWS Cloud. The simulations run on several hundred Amazon EC2 Linux instances. If a simulation encounters an issue, an engineer establishes an SSH connection to the affected EC2 instance. Company policy requires that each EC2 instance session is established with a unique SSH key and that all SSH connections are logged in AWS CloudTrail. CloudTrail is enabled for the company's account and the AWS Regions that the company uses. Which solution will meet these requirements?

- A. Set up AWS Secrets Manager to store the EC2 SSH key. Create an AWS Lambda function to create a new SSH key and to call AWS Systems Manager Session Manager to set the SSH key on the EC2 instance. Configure Secrets Manager to use the Lambda function to automatically rotate the SSH key once daily. Instruct the engineers to retrieve the SSH key from Secrets Manager when the engineers connect through any SSH client.
- B. Comprehensive and Detailed Explanation From Exact Extract: C is correct because EC2 Instance Connect is designed to provide per-connection, short-lived SSH access without long-lived shared private keys, and it integrates with IAM so access is controlled and auditable. With EC2 Instance Connect, engineers push a public key for a short time window to the target instance using the SendSSHPublicKey API action. This meets the "unique SSH key per session" intent because the key can be generated per session and injected temporarily instead of being a persistent static key. Additionally, the key injection is performed through an AWS API call, which is recorded in AWS CloudTrail, satisfying the logging requirement for SSH access activity. Why the other options are incorrect:
- C. D: Daily rotation is not "unique per session," and it is complex/operationally heavy. Like A, the SSH login itself is not automatically a CloudTrail event; CloudTrail would capture Secrets Manager and SSM API calls, not the network SSH authentication event.
- D. Create an AWS Systems Manager document to run commands on EC2 instances to set a new unique SSH key. Create a new IAM policy. Attach the IAM policy to the engineers' IAM role with an Allow statement to run Systems Manager documents. Instruct the engineers to run the document to set an SSH key and to connect through any SSH client.
- E. B: Running a Systems Manager document to set keys creates operational overhead and still does not inherently ensure CloudTrail logs of each SSH connection (the SSM Run Command API calls are logged, but the subsequent SSH login over the network is not an AWS API event). It also risks key persistence beyond a single session.
- F. Launch new EC2 instances. Generate an individual SSH key for each new EC2 instance. Store the SSH key in AWS Secrets Manager. Create a new IAM policy. Attach the IAM policy to the engineers' IAM role with an Allow statement for the GetSecretValue action. Instruct the engineers to retrieve the SSH key from Secrets Manager when the engineers connect through any SSH client.
- G. Launch new EC2 instances without setting up any SSH key for the new EC2 instances. Set up EC2 Instance Connect on each new EC2 instance. Create a new IAM policy. Attach the IAM policy to the engineers' IAM role with an Allow statement for the SendSSHPublicKey action. Instruct the engineers to connect to the EC2 instances by using Instance Connect from the AWS CLI.

Answer: B

Explanation:

References:

Amazon EC2 Instance Connect Documentation: SendSSHPublicKey workflow, temporary key injection, IAM-based access control
AWS CloudTrail Documentation: logging of AWS API calls (including EC2 Instance Connect API actions) across Regions
Amazon EC2 Documentation: Linux instance access patterns and key-based authentication options
AWS Certified Solutions Architect - Professional (SAP-C02) Exam Guide: centralized access control, auditability, and scalable operational patterns for large fleets

NEW QUESTION # 641

A company's AWS architecture currently uses access keys and secret access keys stored on each instance to access AWS services. Database credentials are hard-coded on each instance. SSH keys for command-line remote access are stored in a secured Amazon S3 bucket. The company has asked its solutions architect to improve the security posture of the architecture without adding operational complexity.

Which combination of steps should the solutions architect take to accomplish this? (Select THREE.)

- A. Use AWS Systems Manager Session Manager for remote access
- B. Use a secure fleet of Amazon EC2 bastion hosts (or remote access).
- C. Use AWS Secrets Manager to store access keys and secret access keys.
- D. Use Amazon EC2 instance profiles with an IAM role.
- E. Use AWS KMS to store database credentials.
- F. Use AWS Systems Manager Parameter Store to store database credentials.

Answer: A,D,F

Explanation:

<https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html>

NEW QUESTION # 642

A retail business runs an orders and payments solution that uses more than 100 AWS Lambda functions that are written in Python. As the company's product catalog grows, the company observes that many of the functions time out. The company reconfigures the functions to have the maximum available timeout values, and the company increases memory for the functions. However, the functions continue to time out.

The company investigates the timeout issue and finds that most failures occur when several functions have been chained together, which results in the initial function timing out while it waits for responses. A solutions architect must resolve these timeout issues while maintaining the cost and operational benefits of using Lambda functions.

Which solution will meet these requirements with the MINIMUM amount of application changes?

- A. Combine groups of linked functions together in a single container image. Deploy the container by using Amazon ECS on Amazon EC2 Spot Instances.
- B. Rewrite the Lambda functions in Java. Implement Amazon SQS queues between functions.
- C. Convert the solution to use an AWS Step Functions workflow to invoke the Lambda functions. Remove the direct function-to-function invocations.
- D. Convert the solution to run in containers. Deploy an Amazon EKS cluster and enable auto scaling for the containers.

Answer: C

Explanation:

C is correct because the root cause is synchronous chaining of Lambda functions that causes the initial function to wait and time out. AWS Step Functions is designed to orchestrate multiple steps (including Lambda invocations) with managed state, retries, and timeouts at the workflow level. By moving the chaining logic into a Step Functions state machine and removing direct function-to-function invocations, the initial Lambda no longer needs to remain running while waiting for downstream functions. Step Functions can coordinate the sequence (or parallel branches), handle transient failures with retries/backoff, and maintain execution state without requiring a long-lived "waiting" Lambda invocation. This resolves timeouts while preserving the operational and cost advantages of a serverless Lambda-based architecture and typically requires minimal code change compared to rewriting or migrating platforms.

Why the other options are incorrect:

A: Migrating to containers/EKS is a major architectural change and increases operational overhead, violating "minimum application changes" and the desire to keep Lambda benefits.

B: Rewriting in Java is extensive and unnecessary. Adding SQS between functions changes invocation style and error handling and still requires significant redesign (and does not inherently solve orchestration/branching as cleanly as Step Functions).

D: Grouping functions into containers and running on ECS Spot changes the compute model and introduces more operational overhead and larger application changes than adopting Step Functions.

References:

AWS Step Functions Documentation: workflow orchestration for Lambda, managed state, retries, error handling, and long-running coordination without keeping a Lambda function running AWS Lambda Documentation: timeout behavior and best practices for designing asynchronous and orchestrated serverless workflows AWS Well-Architected Framework (Operational Excellence / Reliability): using managed orchestration for complex workflows, reducing tight coupling, and improving resilience AWS Certified Solutions Architect - Professional (SAP-C02) Exam Guide: designing scalable serverless architectures and selecting Step Functions for multi-step workflows

NEW QUESTION # 643

A company wants to migrate its workloads from on premises to AWS. The workloads run on Linux and Windows. The company has a large on-premises infrastructure that consists of physical machines and VMs that host numerous applications.

The company must capture details about the system configuration, system performance, running processes and network connections of its on-premises infrastructure. The company also must divide the on-premises applications into groups for AWS migrations. The company needs recommendations for Amazon EC2 instance types so that the company can run its workloads on AWS in the most cost-effective manner.

Which combination of steps should a solutions architect take to meet these requirements? (Select THREE.)

- A. Assess the existing applications by installing AWS Systems Manager Agent on the physical machines and VMs
- B. Assess the existing applications by installing AWS Application Discovery Agent on the physical machines and VMs.
- C. Group servers into applications for migration by using AWS Systems Manager Application Manager.
- D. Import data about server sizes into AWS Trusted Advisor. Follow the recommendations for cost optimization.
- E. Generate recommended instance types and associated costs by using AWS Migration Hub.
- F. Group servers into applications for migration by using AWS Migration Hub.

Answer: A,B,F

Explanation:

Explanation

The AWS Application Discovery Service (ADF) is a service that helps you plan your migration to AWS by identifying the servers and applications running in your on-premises data centers. By installing the ADF agent on your physical machines and VMs, you can collect information about the system configuration, performance metrics, and running processes of your workloads.

The AWS Systems Manager Agent (SSM) is a lightweight agent that you can install on your on-premises servers and VMs to collect operational data and automate management tasks such as software inventory and patch management.

AWS Migration Hub is a service that provides a central location to track the status of your migration and group servers into applications for migration. This can help you organize your migration effort and ensure that all the necessary steps are taken to migrate each application.

Reference:

AWS Application Discovery Service: <https://aws.amazon.com/application-discovery/> AWS Systems Manager:

<https://aws.amazon.com/systems-manager/> AWS Migration Hub: <https://aws.amazon.com/migration-hub/>

NEW QUESTION # 644

A company uses AWS Organizations AWS account. A solutions architect must design a solution in which only administrator roles are allowed to use IAM actions. However the solutions architect does not have access to all the AWS account throughout the company.

Which solution meets these requirements with the LEAST operational overhead?

- A. Create an SCP that applies to all the AWS accounts to allow IAM actions only for administrator roles. Apply the SCP to the root OUI.
- B. Set an IAM permissions boundary that allows IAM actions. Attach the permissions boundary to every administrator role across all the AWS accounts.
- C. Create an SCP that applies to all the AWS accounts to deny IAM actions for all users except for those with administrator roles. Apply the SCP to the root OUI.
- D. Configure AWS CloudTrail to invoke an AWS Lambda function for each event that is related to IAM actions. Configure the function to deny the action. If the user who invoked the action is not an administrator.

Answer: A

Explanation:

To restrict IAM actions to only administrator roles across all AWS accounts in an organization, the most operationally efficient solution is to create a Service Control Policy (SCP) that allows IAM actions exclusively for administrator roles and apply this SCP to the root Organizational Unit (OU) of AWS Organizations. This method ensures a centralized governance mechanism that uniformly applies the policy across all accounts, thereby minimizing the need for individual account-level configurations and reducing operational complexity.

References: AWS Documentation on AWS Organizations and Service Control Policies offers comprehensive information on creating and managing SCPs for organizational-wide policy enforcement. This approach aligns with AWS best practices for managing permissions and ensuring secure and compliant account configurations within an AWS Organization.

NEW QUESTION # 645

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