SAP-C01 Q&As

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QUESTION 1

One of your AWS Data Pipeline activities has failed consequently and has entered a hard failure state after retrying thrice.

You want to try it again. Is it possible to increase the number of automatic retries to more than thrice?

A. Yes, you can increase the number of automatic retries to 6.

B. Yes, you can increase the number of automatic retries to indefinite number.

C. No, you cannot increase the number of automatic retries.

D. Yes, you can increase the number of automatic retries to 10.

Correct Answer: D

In AWS Data Pipeline, an activity fails if all of its activity attempts return with a failed state. By default, an activity retries three times before entering a hard failure state. You can increase the number of automatic retries to 10. However, the system does not allow indefinite retries.

Reference: https://aws.amazon.com/datapipeline/faqs/

QUESTION 2

A company standardized its method of deploying applications to AWS using AWS CodePipeline and AWS Cloud Formation. The applications are in TypeScript and Python. The company has recently acquired another business that deploys applications to AWS using Python scripts.

Developers from the newly acquired company are hesitant to move their applications under Cloud Formation because it would require that they learn a new domain-specific language and eliminate their access to language features, such as looping.

How can the acquired applications quickly be brought up to deployment standards while addressing the developers\\' concerns?

A. Create Cloud Formation templates and re-use parts of the Python scripts as Instance user data. Use the AWS Cloud Development Kit (AWS CDK) to deploy the application using these templates. Incorporate the AWS CDK into CodePipeline and deploy the application to AWS using these templates.

B. Use a third-party resource provisioning engine inside AWS CodeBuild to standardize the deployment processes of the existing and acquired company. Orchestrate the CodeBuild job using CodePipeline.

C. Standardize on AWS OpsWorks. Integrate OpsWorks with CodePipeline. Have the developers create Chef recipes to deploy their applications on AWS.

D. Define the AWS resources using TypeScript or Python. Use the AWS Cloud Development Kit (AWS CDK) to create CloudFormation templates from the developers\\' code, and use the AWS CDK to create CloudFormation stacks. Incorporate the AWS CDK as a CodeBuild job in CodePipeline.

Correct Answer: D

QUESTION 3

You want to define permissions for a role in an IAM policy. Which of the following configuration formats should you use?

A. An XML document written in the IAM Policy Language

B. An XML document written in a language of your choice

C. A JSON document written in the IAM Policy Language

D. JSON document written in a language of your choice

Correct Answer: C

You define the permissions for a role in an IAM policy. An IAM policy is a JSON document written in the IAM Policy Language.

Reference: http://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_terms-and-concepts.html

QUESTION 4

A company receives clickstream data files to Amazon S3 every five minutes. A Python script runs as a cron job once a day on an Amazon EC2 instance to process each file and load it into a database hosted on Amazon RDS. The cron job takes 15 to 30 minutes to process 24 hours of data. The data consumers ask for the data be available as soon as possible.

Which solution would accomplish the desired outcome?

A. Increase the size of the instance to speed up processing and update the schedule to run once an hour.

B. Convert the cron job to an AWS Lambda function and trigger this new function using a cron job on an EC2 instance.

C. Convert the cron job to an AWS Lambda function and schedule it to run once an hour using Amazon CloudWatch Events.

D. Create an AWS Lambda function that runs when a file is delivered to Amazon S3 using S3 event notifications.

Correct Answer: D

Reference: https://docs.aws.amazon.com/lambda/latest/dg/with-s3.html

QUESTION 5

A start up company hosts a fleet of Amazon EC2 instances in private subnets using the latest Amazon Linux 2 AMI. The company\\'s engineers rely heavily on SSH access to the instances for troubleshooting.

The company\\'s existing architecture includes the following:

1.

A VPC with private and public subnets, and a NAT gateway

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2.

Site-to-Site VPN for connectivity with the on-premises environment

3.

EC2 security groups with direct SSH access from the on-premises environment

The company needs to increase security controls around SSH access and provide auditing of commands executed by the engineers.

Which strategy should a solutions architect use?

A. Install and configure EC2 instance Connect on the fleet of EC2 instances. Remove all security group rules attached to EC2 instances that allow inbound TCP on port 22. Advise the engineers to remotely access the instances by using the EC2 Instance Connect CLI.

B. Update the EC2 security groups to only allow inbound TCP on port 22 to the IP addresses of the engineer\\'s devices. Install the Amazon CloudWatch agent on all EC2 instances and send operating system audit logs to CloudWatch Logs.

C. Update the EC2 security groups to only allow inbound TCP on port 22 to the IP addresses of the engineer\\'s devices. Enable AWS Config for EC2 security group resource changes. Enable AWS Firewall Manager and apply a security group policy that automatically remediates changes to rules.

D. Create an IAM role with the Ama2onSSMManagedInstanceCore managed policy attached. Attach the IAM role to all the EC2 instances. Remove all security group rules attached to the EC2 instances that allow inbound TCP on port 22. Have the engineers install the AWS Systems Manager Session Manager plugin for their devices and remotely access the instances by using the start-session API call from Systems Manager.

Correct Answer: B

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