



# SOA-C02<sup>Q&As</sup>

AWS Certified SysOps Administrator - Associate (SOA-C02)

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### QUESTION 1

A SysOps administrator launches an Amazon EC2 Linux instance in a public subnet. When the instance is running, the SysOps administrator obtains the public IP address and attempts to remotely connect to the instance multiple times. However, the SysOps administrator always receives a timeout error.

Which action will allow the SysOps administrator to remotely connect to the instance?

- A. Add a route table entry in the public subnet for the SysOps administrator's IP address.
- B. Add an outbound network ACL rule to allow TCP port 22 for the SysOps administrator's IP address.
- C. Modify the instance security group to allow inbound SSH traffic from the SysOps administrator's IP address.
- D. Modify the instance security group to allow outbound SSH traffic to the SysOps administrator's IP address.

Correct Answer: C

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/authorizing-access-to-an-instance.html>

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### QUESTION 2

A company runs an encrypted Amazon RDS for Oracle DB instance. The company wants to make regular backups available in another AWS Region. What is the MOST operationally efficient solution that meets these requirements?

- A. Modify the DB instance. Enable cross-Region automated backups.
- B. Create an RDS read replica in another Region. Create a snapshot of the read replica.
- C. Use AWS Database Migration Service (AWS DMS) to copy the data to a DB instance in another Region.
- D. Temporarily turn off encryption on the DB instance. Take a snapshot. Copy the snapshot to another Region.

Correct Answer: A

[https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER\\_ReplicateBackups.html#AutomatedBackups.Replicating.Enable](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_ReplicateBackups.html#AutomatedBackups.Replicating.Enable)

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### QUESTION 3

A company is experiencing issues with legacy software running on Amazon EC2 instances. Errors occur when the total CPU utilization on the EC2 instances exceeds 80%. A short-term solution is required while the software is being rewritten. A SysOps administrator is tasked with creating a solution to restart the instances when the CPU utilization rises above 80%.

Which solution meets these requirements with the LEAST operational overhead?

- A. Write a script that monitors the CPU utilization of the EC2 instances and reboots the instances when utilization exceeds 80%. Run the script as a cron job.
- B. Add an Amazon CloudWatch alarm for CPU utilization and configure the alarm action to reboot the EC2 instances.



- C. Create an Amazon EventBridge rule using the predefined patterns for CPU utilization of the EC2 instances. When utilization exceeds 80%, invoke an AWS Lambda function to restart the instances.
- D. Add an Amazon CloudWatch alarm for CPU utilization and configure an AWS Systems Manager Automation runbook to reboot the EC2 instances when utilization exceeds 80%.

Correct Answer: B

<https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/UsingAlarmActions.html> "For Whenever this alarm, choose State is ALARM. For Take this action, choose Reboot this instance."

#### QUESTION 4

A company's SysOps administrator regularly checks the AWS Personal Health Dashboard in each of the company's accounts. The accounts are part of an organization in AWS Organizations. The company recently added 10 more accounts to the organization. The SysOps administrator must consolidate the alerts from each account's Personal Health Dashboard.

Which solution will meet this requirement with the LEAST amount of effort?

- A. Enable organizational view in AWS Health.
- B. Configure the Personal Health Dashboard in each account to forward events to a central AWS CloudTrail log.
- C. Create an AWS Lambda function to query the AWS Health API and to write all events to an Amazon DynamoDB table.
- D. Use the AWS Health API to write events to an Amazon DynamoDB table.

Correct Answer: A

Enabling the organizational view in AWS Health will allow the SysOps administrator to consolidate the alerts from each account's Personal Health Dashboard. It will also provide the administrator with a single view of all the accounts in the organization, allowing them to easily monitor the health of all the accounts in the organization. Reference: [1]  
<https://aws.amazon.com/premiumsupport/knowledge-center/organizational-view-health-dashboard/>

#### QUESTION 5

A company creates custom AMI images by launching new Amazon EC2 instances from an AWS CloudFormation template it installs and configure necessary software through AWS OpsWorks and takes images of each EC2 instance. The

process of installing and configuring software can take between 2 to 3 hours but at times the process stalls due to installation errors.

The SysOps administrator must modify the CloudFormation template so if the process stalls, the entire stack will fail and roll back.

Based on these requirements what should be added to the template?

- A. Conditions with a timeout set to 4 hours.
- B. CreationPolicy with timeout set to 4 hours.



C. DependsOn a timeout set to 4 hours.

D. Metadata with a timeout set to 4 hours

Correct Answer: B

When you provision an Amazon EC2 instance in an AWS CloudFormation stack, you might specify additional actions to configure the instance, such as install software packages or bootstrap applications. Normally, CloudFormation proceeds with stack creation after the instance has been successfully created. However, you can use a CreationPolicy so that CloudFormation proceeds with stack creation only after your configuration actions are done. That way you'll know your applications are ready to go after stack creation succeeds.

A CreationPolicy instructs CloudFormation to wait on an instance until CloudFormation receives the specified number of signals. This policy takes effect only when CloudFormation creates the instance.

Ref link: <https://aws.amazon.com/blogs/devops/use-a-creationpolicy-to-wait-for-on-instance-configurations/> Ref link: <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-attribute-creationpolicy.html>

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