



DOP-C02^{Q&As}

AWS Certified DevOps Engineer - Professional

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QUESTION 1

When running a playbook on a remote target host you receive a Python error similar to "[Errno 13] Permission denied: `/home/nick/.ansible/tmp\'`. What would be the most likely cause of this problem?

- A. The user's home or ``.ansible\'`` directory on the Ansible system is not writeable by the user running the play.
- B. The specified user does not exist on the remote system.
- C. The user running ``.ansible-playbook\'`` must run it from their own home directory.
- D. The user's home or ``.ansible\'`` directory on the Ansible remote host is not writeable by the user running the play

Correct Answer: D

Each task that Ansible runs calls a module. When Ansible uses modules, it copies the module to the remote target system. In the error above it attempted to copy it to the remote user's home directory and found that either the home directory or the ``.ansible\'`` directory were not writeable and thus could not continue.

Reference: http://docs.ansible.com/ansible/modules_intro.html

QUESTION 2

When building a Docker image, you are searching through a persistent data volume's logs to provide parameters for the next build. You execute the following command. Which of the operations will cause a failure of the Docker RUN command? `RUN cat ./data/log/*.error | grep service_status | grep ERROR`

- A. the first grep command
- B. any one of them
- C. the second grep command
- D. the cat command

Correct Answer: C

Some RUN commands depend on the ability to pipe the output of one command into another, using the pipe character (`|`), as in the following example:

```
RUN wget -O - https://some.site | wc -l > /number
```

Docker executes these commands using the `/bin/sh -c` interpreter, which only evaluates the exit code of the last operation in the pipe to determine success. In the example above this build step succeeds and produces a new image so long as

the `wc -l` command succeeds, even if the `wget` command fails.

Reference:

https://docs.docker.com/engine/userguide/eng-image/dockerfile_best-practices/#run



QUESTION 3

A company's production environment uses an AWS CodeDeploy blue/green deployment to deploy an application. The deployment includes Amazon EC2 Auto Scaling groups that launch instances that run Amazon Linux 2.

A working appspec.yml file exists in the code repository and contains the following text.

```
version: 0.0
os: linux
files:
  - source: /
    destination: /var/www/html/application
```

A DevOps engineer needs to ensure that a script downloads and installs a license file onto the instances before the replacement instances start to handle request traffic. The DevOps engineer adds a hooks section to the appspec.yml file.

Which hook should the DevOps engineer use to run the script that downloads and installs the license file?

- A. AfterBlockTraffic
- B. BeforeBlockTraffic
- C. BeforeInstall
- D. Download Bundle

Correct Answer: C

This hook runs before the new application version is installed on the replacement instances. This is the best place to run the script because it ensures that the license file is downloaded and installed before the replacement instances start to handle request traffic. If you use any other hook, you may encounter errors or inconsistencies in your application.

QUESTION 4

A company has a guideline that every Amazon EC2 instance must be launched from an AMI that the company's security team produces. Every month the security team sends an email message with the latest approved AMIs to all the development teams.

The development teams use AWS CloudFormation to deploy their applications. When developers launch a new service they have to search their email for the latest AMIs that the security department sent. A DevOps engineer wants to automate the process that the security team uses to provide the AMI IDs to the development teams.

What is the MOST scalable solution that meets these requirements?

- A. Direct the security team to use CloudFormation to create new versions of the AMIs and to list the AMI ARNs in an encrypted Amazon S3 object as part of the stack's Outputs Section. Instruct the developers to use a cross-stack reference to load the encrypted S3 object and obtain the most recent AMI ARNs.
- B. Direct the security team to use a CloudFormation stack to create an AWS CodePipeline pipeline that builds new AMIs and places the latest AMI ARNs in an encrypted Amazon S3 object as part of the pipeline output. Instruct the developers to use a cross-stack reference within their own CloudFormation template to obtain the S3 object location and the most



recent AMI ARNs.

C. Direct the security team to use Amazon EC2 Image Builder to create new AMIs and to place the AMI ARNs as parameters in AWS Systems Manager Parameter Store. Instruct the developers to specify a parameter of type SSM in their CloudFormation stack to obtain the most recent AMI ARNs from Parameter Store.

D. Direct the security team to use Amazon EC2 Image Builder to create new AMIs and to create an Amazon Simple Notification Service (Amazon SNS) topic so that every development team can receive notifications. When the development teams receive a notification, instruct them to write an AWS Lambda function that will update their CloudFormation stack with the most recent AMI ARNs.

Correct Answer: C

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/dynamic-references.html>

QUESTION 5

A video-sharing company stores its videos in Amazon S3. The company has observed a sudden increase in video access requests, but the company does not know which videos are most popular. The company needs to identify the general access pattern for the video files. This pattern includes the number of users who access a certain file on a given day, as well as the number of users who access a certain file on a given day. A DevOps engineer manages a large commercial website that runs on Amazon EC2. The website uses Amazon Kinesis Data Streams to collect and process web logs. The DevOps engineer manages the Kinesis consumer application, which also runs on Amazon EC2.

Sudden increases of data cause the Kinesis consumer application to fall behind and the Kinesis data streams drop records before the records can be processed.

The DevOps engineer must implement a solution to improve stream handling.

Which solution meets these requirements with the MOST operational efficiency per hour of pull requests for certain files?

How can the company meet these requirements with the LEAST amount of effort?

A. Activate S3 server access logging. Import the access logs into an Amazon Aurora database. Use an Aurora SQL query to analyze the access patterns.

B. Activate S3 server access logging. Use Amazon Athena to create an external table with the log files. Use Athena to create a SQL query to analyze the access patterns.

C. Invoke an AWS Lambda function for every S3 object access event. Configure the Lambda function to write the file access information, such as user, S3 bucket, and file key, to an Amazon Aurora database. Use an Aurora SQL query to analyze the access patterns.

D. Record an Amazon CloudWatch Logs log message for every S3 object access event. Configure a CloudWatch Logs log stream to write the file access information, such as user, S3 bucket, and file key, to an Amazon Kinesis Data Analytics for SQL application. Perform a sliding window analysis.

Correct Answer: B

Activating S3 server access logging and using Amazon Athena to create an external table with the log files is the easiest and most cost-effective way to analyze access patterns. This option requires minimal setup and allows for quick analysis of the access patterns with SQL queries. Additionally, Amazon Athena scales automatically to match the query load, so there is no need for additional infrastructure provisioning or management.



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