AZ-400^{Q&As}

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Designing and Implementing Microsoft DevOps Solutions

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QUESTION 1

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
DepPipeline1	Azure DevOps deployment pipeline
ADFPipeline1	Azure Data Factory pipeline
Vault1	Azure Key Vault

DepPipeline1 and ADFPipeline1 use a single credential that is stored in Vault\\'. You need to configure ADFPipeline1 to retrieve the credential from Vault1. Which type of activity should you use?

A. Web

B. Copy

C. Lookup

D. Get Metadata

Correct Answer: B

QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You plan to update the Azure DevOps strategy of your company.

You need to identify the following issues as they occur during the company\\'s development process:

1.

 Licensing violations

2.

 Prohibited libraries

Solution: You implement continuous deployment.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead implement continuous integration.

Note: WhiteSource is the leader in continuous open source software security and compliance management. WhiteSource integrates into your build process, irrespective of your programming languages, build tools, or development environments. It works automatically, continuously, and silently in the background, checking the security, licensing, and quality of your open source components against WhiteSource constantly-updated definitive database of open source repositories.

Reference: https://azuredevopslabs.com/labs/vstsextend/whitesource/

QUESTION 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. The lead developer at your company reports that adding new application features takes longer

than expected due to a large accumulated technical debt.

You need to recommend changes to reduce the accumulated technical debt. Solution: You recommend reducing the code coupling and the dependency cycles? Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead reduce the code complexity.

Note: Technical debt is the accumulation of sub-optimal technical decisions made over the lifetime of an application. Eventually, it gets harder and harder to change things: it\\'s the `sand in the gears\\' that sees IT initiatives grind to a halt.

Reference: https://dzone.com/articles/fight-through-the-pain-how-to-deal-with-technical
https://www.devopsgroup.com/blog/five-ways-devops-helps-with-technical-debt/

QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You plan to update the Azure DevOps strategy of your company.

You need to identify the following issues as they occur during the company\\\'s development process:

1.

 Licensing violations

2.

 Prohibited libraries

Solution: You implement automated security testing.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use implement continuous integration.

Note: WhiteSource is the leader in continuous open source software security and compliance management. WhiteSource integrates into your build process, irrespective of your programming languages, build tools, or development environments. It works automatically, continuously, and silently in the background, checking the security, licensing, and quality of your open source components against WhiteSource constantly-updated definitive database of open source repositories.

Reference: https://azuredevopslabs.com/labs/vstsextend/whitesource/

QUESTION 5

Your company has a project in Azure DevOps for a new web application.

The company uses ServiceNow for change management.

You need to ensure that a change request is processed before any components can be deployed to the production environment.

What are two ways to integrate ServiceNow into the Azure DevOps release pipeline? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Define a deployment control that invokes the Service Now SOAP API.

B. Define a post deployment gate after the deployment to the QA stage.

C. Define a deployment control that invokes the ServiceNow REST API.

D. Define a pre deployment gate before the deployment to the Prod stage.

Correct Answer: AB

An example of a release pipeline that can be modeled through a release pipeline in shown below:
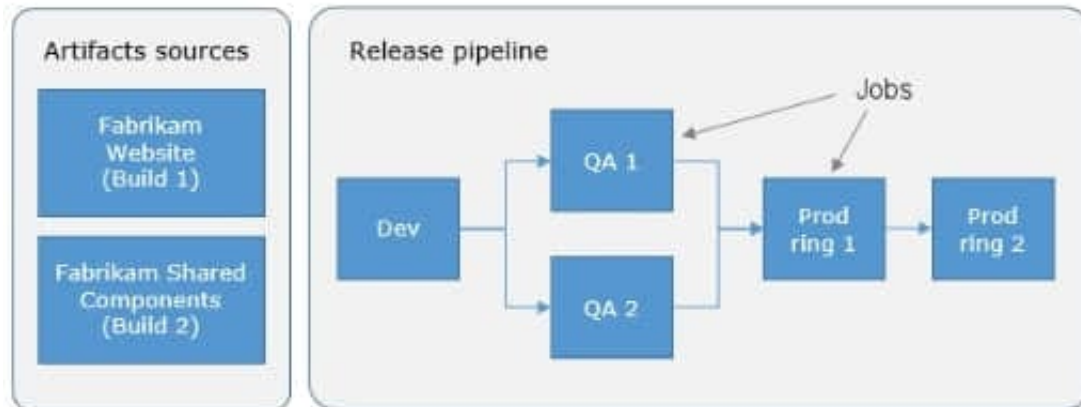
In this example, a release of a website is created by collecting specific versions of two builds (artifacts), each from a different build pipeline. The release is first deployed to a Dev stage and then forked to two QA stages in parallel. If the deployment succeeds in both the QA stages, the release is deployed to Prod ring 1 and then to Prod ring 2. Each production ring represents multiple instances of the same website deployed at various locations around the globe.

References: https://docs.microsoft.com/en-us/azure/devops/pipelines/release

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