AZ-400^{Q&As}

Designing and Implementing Microsoft DevOps Solutions

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QUESTION 1

You have a project in Azure DevOps named Project1 that contains two environments named environment1 and environment2.

When a new version of Project is released, the latest version is deployed to environment2, and the previous version is redeployed to environment1.

You need to distribute users across the environments. The solution must meet the following requirements:

New releases must be available to only a subset of the users.

You must gradually increase the number of users that can access environment2.

What should you use?

A. VIP swaping

B. web app deployment slots

C. Azure Load Balancer

D. Azure Traffic Manager

Correct Answer: B

Explanation:

Use deployment slots

Whenever possible, use deployment slots when deploying a new production build. When using a Standard App Service Plan tier or better, you can deploy your app to a staging environment, validate your changes, and do smoke tests. When

you are ready, you can swap your staging and production slots. The swap operation warms up the necessary worker instances to match your production scale, thus eliminating downtime.

Reference:

https://docs.microsoft.com/en-us/azure/app-service/deploy-best-practices#use-deployment-slots

QUESTION 2

You need to execute inline testing of an Azure DevOps pipeline that uses a Docker deployment model. The solution must prevent the results from being published to the pipeline. What should you use for the inline testing?

A. a single stage Dockerfile

B. an Azure Kubernetes Service (AKS) pod

C. a multi-stage Dockerfile

D. a Docker Compose file

Correct Answer: B

Use Docker when running integration tests with Azure Pipelines.

Reference: https://crossprogramming.com/2019/12/27/use-docker-when-running-integration-tests-with-azure-pipelines.html

QUESTION 3

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You run the Register-AzureRmAutomationDscNode command in your company\\'s environment.

You need to make sure that your company\\'s test servers remain correctly configured, regardless of configuration drift.

Solution: You set the -ConfigurationMode parameter to ApplyAndAutocorrect.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Reference: https://docs.microsoft.com/en-us/powershell/module/azurerm.automation/register-azurermautomationdscnode?view=azurermps-6.13.0

QUESTION 4

HOTSPOT

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

Name	Type
DF1	Azure Data Factory
SQL1	Azure SQL Database
KV1	Azure Key Vault

You plan to create a linked service in DF1. The linked service will connect to SQL1 by using Microsoft SQL Server authentication. The password for the SQL Server login will be stored

in KV1.

You need to configure DF1 to retrieve the password when the data factory connects to SQL1. The solution must use the principle of least privilege.
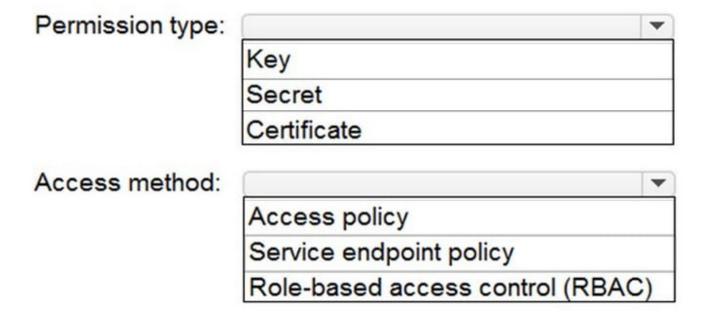
How should you configure DF1? To answer, select the appropriate options in the answer area.
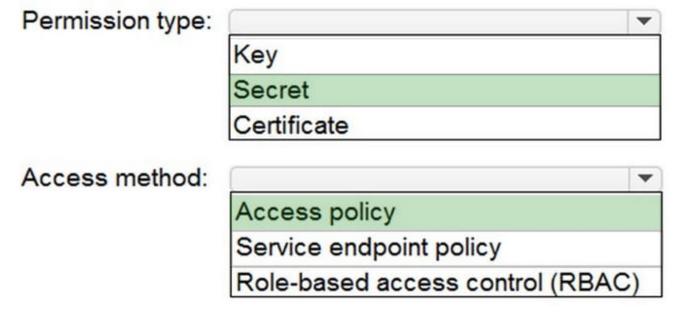
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Permission type:

Key
Secret
Certificate

Access method:

Access policy
Service endpoint policy
Role-based access control (RBAC)

Correct Answer:

Answer Area

Permission type:

Key
Secret
Certificate

Access method:

Access policy
Service endpoint policy
Role-based access control (RBAC)

Box 1: Secret

Store credential in Azure Key Vault by reference secret stored in key vault.

To reference a credential stored in Azure Key Vault, you need to:

Retrieve data factory managed identity

Grant the managed identity access to your Azure Key Vault. In your key vault -> Access policies -> Add Access Policy, search this managed identity to grant Get permission in Secret permissions dropdown. It allows this designated factory to

access secret in key vault.

Create a linked service pointing to your Azure Key Vault.

Create data store linked service, inside which reference the corresponding secret stored in key vault.

Box 2: Access policy

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/store-credentials-in-key-vault

QUESTION 5

You have multiple teams that work on multiple projects in Azure DevOps.

You need to plan and manage the consumers and producers for each project. The solution must provide an overview of all the projects.

What should you do?

A. Add a Predecessor or Successor link to the feature or user story for the items of each project.

B. Add a Parent or Child link to the feature or user story for the items of each project.

C. Install the Dependency Tracker extension and create dependencies for each project.

D. Create a custom query to show the consumers and producers and add a widget to a dashboard.

Correct Answer: C

Explanation:

The Dependency Tracker extension enables management of dependencies across teams, projects, and organizations. It provides filterable views to show all dependencies a team is consuming and producing. These views allow you to track

the state and schedule of dependencies to support you in assessing the risk of dependencies to product deliverables.

You use the Dependency Tracker to plan dependencies at the beginning of an iteration or release, and to track the status during development. For any given dependency, there are two parties involved:

Consumer: Feature team who has a need and starts a request for work

Producer: Feature team who makes a commitment to deliver work

Reference:

https://docs.microsoft.com/en-us/azure/devops/boards/extensions/dependency-tracker?view=azure-devops

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