

# AZ-400<sup>Q&As</sup>

Designing and Implementing Microsoft DevOps Solutions

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### QUESTION 1

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

The company identifies security as one of the highest priorities.

You need to recommend a solution to minimize the likelihood that infrastructure credentials will be leaked.

What should you recommend?

- A. Add a Run Inline Azure PowerShell task to the pipeline.
- B. Add a PowerShell task to the pipeline and run Set-AzureKeyVaultSecret.
- C. Add a Azure Key Vault task to the pipeline.
- D. Add Azure Key Vault references to Azure Resource Manger templates.

Correct Answer: B

Azure Key Vault provides a way to securely store credentials and other keys and secrets.

The Set-AzureKeyVaultSecret cmdlet creates or updates a secret in a key vault in Azure Key Vault.

References:

<https://docs.microsoft.com/en-us/powershell/module/azurearm.keyvault/set-azurekeyvaultsecret>

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### QUESTION 2

You have an Azure DevOps organization named Contoso and an Azure subscription.

You use Azure DevOps to build a containerized app named App1 and deploy App1 to an Azure container instance named ACI1.

You need to restart ACI1 when App1 stops responding.

What should you do?

- A. Add a liveness probe to the YAML configuration of App1.
- B. Use Connection Monitor in Azure Network Watcher.
- C. Add a readiness probe to the YAML configuration of Appl.
- D. Use IP flow verify in Azure Network Watcher.

Correct Answer: C

For containerized applications that serve traffic, you might want to verify that your container is ready to handle incoming requests. Azure Container Instances supports readiness probes to include configurations so that your container can't be accessed under certain conditions. The readiness probe behaves like a Kubernetes readiness probe. For example, a container app might need to load a large data set during startup, and you don't want it to receive requests during this

time.

YAML is used to setup a liveness probe.

Reference: <https://docs.microsoft.com/en-us/azure/container-instances/container-instances-readiness-probe>

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### QUESTION 3

Your company is building a new solution in Java.

The company currently uses a SonarQube server to analyze the code of .NET solutions.

You need to analyze and monitor the code quality of the Java solution.

Which task types should you add to the build pipeline?

- A. Grunt
- B. Chef
- C. Maven
- D. Gulp

Correct Answer: C

SonarQube is a set of static analyzers that can be used to identify areas of improvement in your code. It allows you to analyze the technical debt in your project and keep track of it in the future. With Maven and Gradle build tasks, you can run SonarQube analysis with minimal setup in a new or existing Azure DevOps Services build task.

References: <https://docs.microsoft.com/en-us/azure/devops/java/sonarqube?view=azure-devops>

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### QUESTION 4

#### HOTSPOT

You manage build and release pipelines by using Azure DevOps. Your entire managed environment resides in Azure.

You need to configure a service endpoint for accessing Azure Key Vault secrets. The solution must meet the following requirements:

1.

Ensure that the secrets are retrieved by Azure DevOps.

2.

Avoid persisting credentials and tokens in Azure DevOps.

How should you configure the service endpoint? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Service connection type:

	▼
Azure Resource Manager	
Generic service	
Team Foundation Server / Azure Pipelines service connection	

Authentication/authorization method for the connection:

	▼
Azure Active Directory OAuth 2.0	
Grant authorization	
Managed Service Identity Authentication	

Correct Answer:

Service connection type:

	▼
Azure Resource Manager	
Generic service	
Team Foundation Server / Azure Pipelines service connection	

Authentication/authorization method for the connection:

	▼
Azure Active Directory OAuth 2.0	
Grant authorization	
Managed Service Identity Authentication	

Box 1: Azure Pipelines service connection

Box 2: Managed Service Identity Authentication The managed identities for Azure resources feature in Azure Active Directory (Azure AD) provides Azure services with an automatically managed identity in Azure AD. You can use the identity to authenticate to any service that supports Azure AD authentication, including Key Vault, without any credentials in your code.

Reference: <https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/deploy/azure-key-vault>

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

### QUESTION 5

In Azure DevOps, you create Project3.

You need to meet the requirements of the project.

What should you do first?

- A. From Azure DevOps, modify the build definition.
- B. From SonarQube, obtain an authentication token.

- C. From Azure DevOps, create a service endpoint.
- D. From SonarQube, create a project.

Correct Answer: C

The first thing to do is to declare your SonarQube server as a service endpoint in your VSTS/DevOps project settings.  
References: <https://docs.sonarqube.org/display/SCAN/Analyzing+with+SonarQube+Extension+for+vsts-TFS>

### QUESTION 6

#### HOTSPOT

Your company uses Git as a source code control system for a complex app named App1.

You plan to add a new functionality to App1.

You need to design a branching model for the new functionality.

Which branch lifetime and branch type should you use in the branching model? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

Branch lifetime:	<input type="text"/>	▼
	Long-lived	
	Short-lived	
Branch type:	<input type="text"/>	▼
	Master	
	Feature	
	Integration	

Correct Answer:

## Answer Area

Branch lifetime: 

	▼
Long-lived	
Short-lived	

Branch type: 

	▼
Master	
Feature	
Integration	

Branch lifetime: Short-lived

Branch type: Feature Feature branches are used when developing a new feature or enhancement which has the potential of a development lifespan longer than a single deployment. When starting development, the deployment in which this feature will be released may not be known. No matter when the feature branch will be finished, it will always be merged back into the master branch.

References: <https://gist.github.com/digitaljhelms/4287848>

### QUESTION 7

#### SIMULATION

You have a web app that connects to an Azure SQL Database named db1.

You need to configure db1 to send Query Store runtime statistics to Azure Log Analytics.

To complete this task, sign in to the Microsoft Azure portal.

Correct Answer: See solution below.

### QUESTION 8

Your company has an Azure DevOps project,

The source code for the project is stored in an on-premises repository and uses on an on-premises build server.

You plan to use Azure DevOps to control the build process on the build server by using a self-hosted agent.

You need to implement the self-hosted agent.

You download and install the agent on the build server.

Which two actions should you perform next? Each correct answer presents part of the solution.

- A. From Azure, create a shared access signature (SAS).
- B. From the build server, create a certificate, and then upload the certificate to Azure Storage.
- C. From the build server, create a certificate, and then upload the certificate to Azure Key Vault.
- D. From DevOps, create a personal access token (PAT).
- E. From the build server, run config.cmd.

Correct Answer: BE

B: Make sure you install your self-signed ssl server certificate into the OS certificate store.

E: When you have a self-signed SSL certificate for your on-premises TFS server, make sure to configure the Git we shipped to allow that self-signed SSL certificate.

Enable git to use SChannel during configure with 2.129.0 or higher version agent Pass --gituseschannel during agent configuration

```
./config.cmd --gituseschannel
```

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/certificate>

## QUESTION 9

### HOTSPOT

You have a project in Azure DevOps that has three teams as shown in the Teams exhibit. (Click the Teams tab.)

The screenshot shows the 'Teams' page in Azure DevOps. The left sidebar shows 'Project Settings' for 'Contoso' with the 'Teams' tab selected. The main area displays a table of teams:

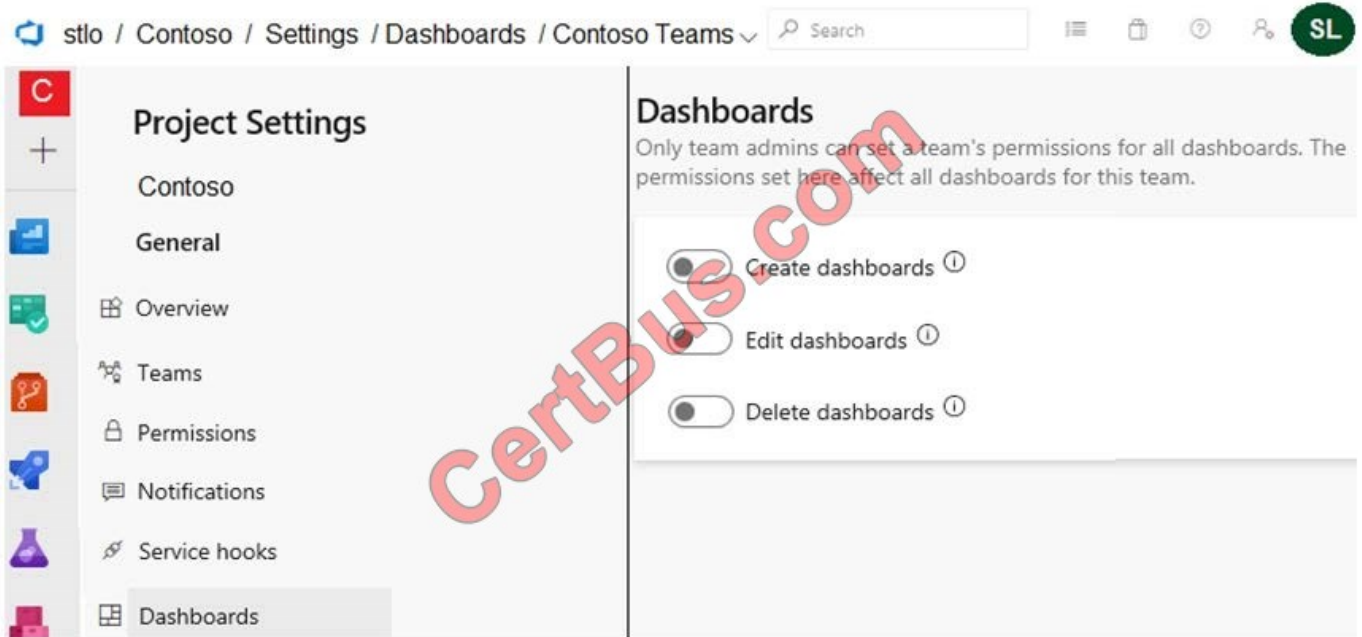
Name	Description	Members
CT Contoso Team (Default)	The default project team.	1
DT DB Team	Parts Unlimited Web Team	0
WT Web Team	PUL DB Team	0

You create a new dashboard named Dash1.

You configure the dashboard permissions for the Control project as shown in the Permissions exhibit. (Click the



Permissions tab.)



All other permissions have the default values set.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

Statements	Yes	No
Web Team can delete Dash1.	<input type="radio"/>	<input type="radio"/>
Contoso Team can view Dash1.	<input type="radio"/>	<input type="radio"/>
Project administrators can create new dashboards.	<input type="radio"/>	<input type="radio"/>

Correct Answer:



## Answer Area

Statements	Yes	No
Web Team can delete Dash1.	<input type="radio"/>	<input checked="" type="radio"/>
Contoso Team can view Dash1.	<input checked="" type="radio"/>	<input type="radio"/>
Project administrators can create new dashboards.	<input checked="" type="radio"/>	<input type="radio"/>

Reference: <https://docs.microsoft.com/en-us/azure/devops/report/dashboards/charts-dashboard-permissions-access>

### QUESTION 10

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 manage a project in Azure DevOps.

You need to prevent the configuration of the project from changing over time.

Solution: Implement Continuous Assurance for the project.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

The basic idea behind Continuous Assurance (CA) is to setup the ability to check for "drift" from what is considered a secure snapshot of a system. Support for Continuous Assurance lets us treat security truly as a "state" as opposed to a "point in time" achievement. This is particularly important in today's context when "continuous change" has become a norm.

There can be two types of drift:

1.

Drift involving "baseline" configuration: This involves settings that have a fixed number of possible states (often pre-defined/statically determined ones). For instance, a SQL DB can have TDE encryption turned ON or OFF...or a Storage

Account may have auditing turned ON however the log retention period may be less than 365 days.

2.

Drift involving `\\stateful\\` configuration: There are settings which cannot be constrained within a finite set of well-known states. For instance, the IP addresses configured to have access to a SQL DB can be any (arbitrary) set of IP addresses. In such scenarios, usually human judgment is initially required to determine whether a particular configuration should be considered `\\secure\\` or not. However, once that is done, it is important to ensure that there is no "stateful drift" from the attested configuration. (E.g., if, in a troubleshooting session, someone adds the IP address of a developer machine to the list, the Continuous Assurance feature should be able to identify the drift and generate notifications/ alerts or even trigger `\\auto-remediation\\` depending on the severity of the change).

Reference: <https://azsk.azurewebsites.net/04-Continous-Assurance/Readme.html>

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### QUESTION 11

You use Azure Artifacts to host NuGet packages that you create.

You need to make one of the packages available to anonymous users outside your organization. The solution must minimize the number of publication points.

What should you do?

- A. Change the feed URL of the package
- B. Create a new feed for the package
- C. Promote the package to a release view.
- D. Publish the package to a public NuGet repository.

Correct Answer: B

Azure Artifacts introduces the concept of multiple feeds that you can use to organize and control access to your packages.

Packages you host in Azure Artifacts are stored in a feed. Setting permissions on the feed allows you to share your packages with as many or as few people as your scenario requires.

Feeds have four levels of access: Owners, Contributors, Collaborators, and Readers.

References: <https://docs.microsoft.com/en-us/azure/devops/artifacts/feeds/feed-permissions?view=vstsandtabs=new-nav>

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### QUESTION 12

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: D

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>

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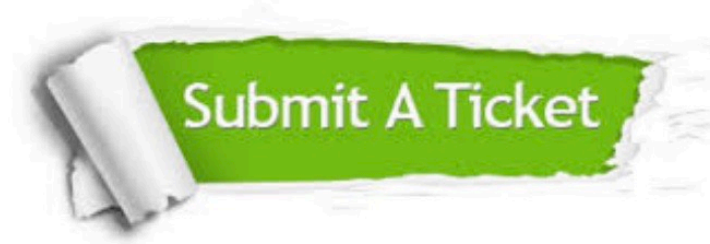
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