



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

Designing and Implementing Microsoft DevOps Solutions

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## QUESTION 1

### HOTSPOT

Your company uses GitHub for source control. GitHub repositories store source code and store process documentation. The process documentation is saved as Microsoft Word documents that contain simple flow charts stored as .bmp files.

You need to optimize the integration and versioning of the process documentation and the flow charts. The solution must meet the following requirements:

1.

Store documents as plain text.

2.

Minimize the number of files that must be maintained.

3.

Simplify the modification, merging, and reuse of flow charts.

4.

Simplify the modification, merging, and reuse of documents.

What should you include in the solution? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

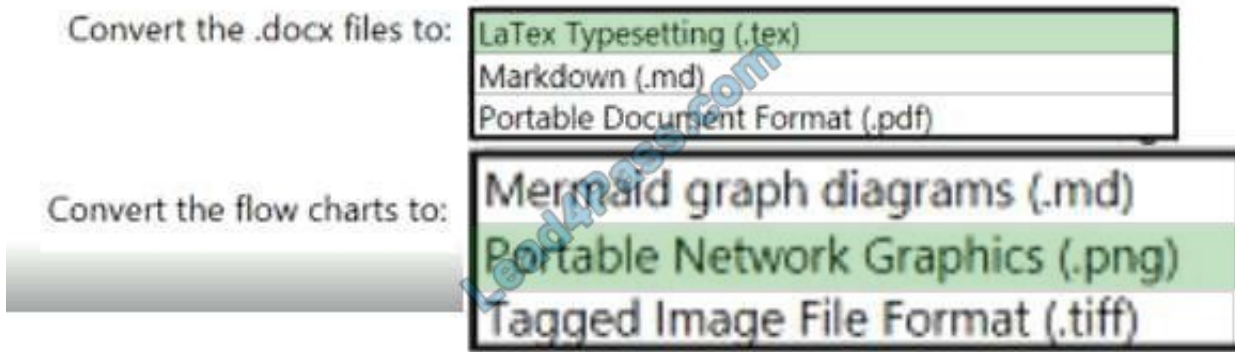
Convert the .docx files to:

LaTeX Typesetting (.tex)
Markdown (.md)
Portable Document Format (.pdf)

Convert the flow charts to:

Mermaid graph diagrams (.md)
Portable Network Graphics (.png)
Tagged Image File Format (.tiff)

Correct Answer:



## QUESTION 2

You create a Microsoft ASP.NET Core application.

You plan to use Azure Key Vault to provide secrets to the application as configuration data.

You need to create a Key Vault access policy to assign secret permissions to the application. The solution must use the principle of least privilege.

Which secret permissions should you use?

- A. List only
- B. Get only
- C. Get and List

Correct Answer: B

Application data plane permissions:

1.

Keys: sign

2.

Secrets: get

Reference: <https://docs.microsoft.com/en-us/azure/key-vault/key-vault-secure-your-key-vault>

## QUESTION 3

DRAG DROP

Which package feed access levels should be assigned to the Developers and Team Leaders groups for the investment planning applications suite? To answer, drag the appropriate access levels to the correct groups. Each access level



may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

### Access Levels

- Collaborator
- Contributor
- Owner
- Reader

### Answer Area

Developers:

Team Leaders:

Correct Answer:

### Access Levels

- Collaborator
- Contributor
- 
- 

### Answer Area

Developers:

Team Leaders:

Box 1: Reader

Members of a group named Developers must be able to install packages.

Feeds have four levels of access: Owners, Contributors, Collaborators, and Readers. Owners can add any type of identity-individuals, teams, and groups-to any access level.



Box 2: Owner

Members of a group named Team Leaders must be able to create new packages and edit the permissions of package feeds.

Permission	Reader	Collaborator	Contributor	Owner
List and restore/install packages	✓	✓	✓	✓
Save packages from upstream sources		✓	✓	✓
Push packages			✓	✓
Unlist/deprecate packages			✓	✓
Delete/unpublish package				✓
Edit feed permissions				✓
Rename and delete feed				✓

**QUESTION 4**

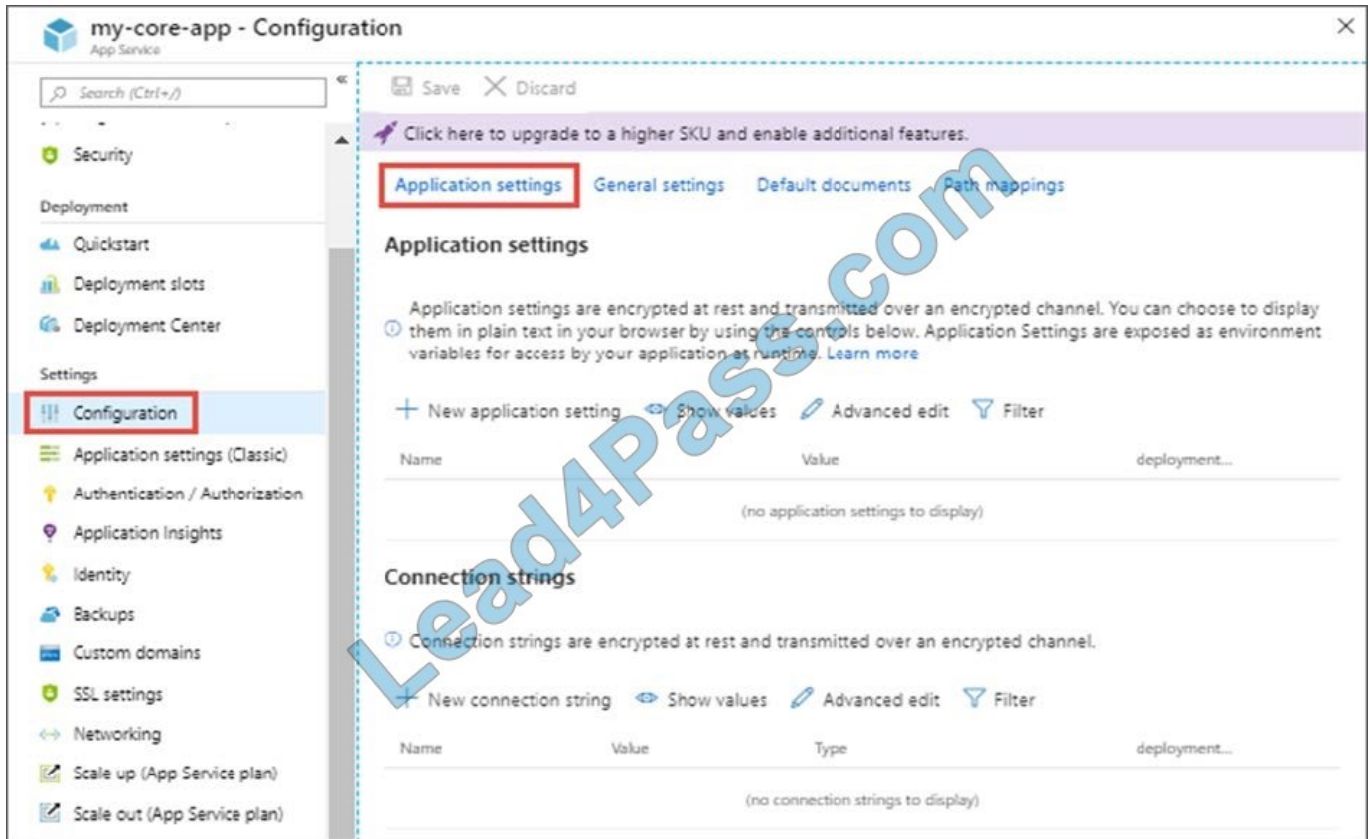
SIMULATION

You need to configure an Azure web app named az400-9940427-main to contain an environmental variable named "MAX\_ITEMS". The environmental variable must have a value of 50.

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

Correct Answer: See solution below.

1.  
In the Azure portal, navigate to the az400-9940427-main app's management page. In the app's left menu, click Configuration > Application settings.
2.  
Click New Application settings
3.  
Enter the following: Name: MAX\_ITEMS Value: 50



References: <https://docs.microsoft.com/en-us/azure/app-service/configure-common>

## QUESTION 5

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 pre-deployment gates.



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/>

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## QUESTION 6

You are automating the testing process for your company. You need to automate UI testing of a web application. Which framework should you use?

A. JaCoco

B. Selenium

C. Xamarin.UITest

D. Microsoft.CodeAnalysis

Correct Answer: B

Performing user interface (UI) testing as part of the release pipeline is a great way of detecting unexpected changes, and need not be difficult. Selenium can be used to test your website during a continuous deployment release and test automation.

References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/test/continuous-test-selenium?view=azure-devops>

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## QUESTION 7

### HOTSPOT

Your company is building a new web application.

You plan to collect feedback from pilot users on the features being delivered.





All the pilot users have a corporate computer that has Google Chrome and the Microsoft Test and Feedback extension installed. The pilot users will test the application by using Chrome.

You need to identify which access levels are required to ensure that developers can request and gather feedback from the pilot users. The solution must use the principle of least privilege.

Which access levels in Azure DevOps should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Developers:

Pilot users:

Correct Answer:

Developers:

Pilot users:

Box 1: Basic

Assign Basic to users with a TFS CAL, with a Visual Studio Professional subscription, and to users for whom you are paying for Azure Boards and Repos in an organization.

Box 2: Stakeholder

Assign Stakeholders to users with no license or subscriptions who need access to a limited set of features.

Note:

You assign users or groups of users to one of the following access levels:





Basic: provides access to most features

VS Enterprise: provides access to premium features

Stakeholders: provides partial access, can be assigned to unlimited users for free

References: <https://docs.microsoft.com/en-us/azure/devops/organizations/security/access-levels?view=vsts>

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## QUESTION 8

### SIMULATION

You need to ensure that the <https://contoso.com/statushook> webhook is called every time a repository named az40010480345acr1 receives a new version of an image named dotnetapp.

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

Correct Answer: See solution below.

1.

Sign in to the Azure portal.

2.

Navigate to the container registry az40010480345acr1.

3.

Under Services, select Webhooks.

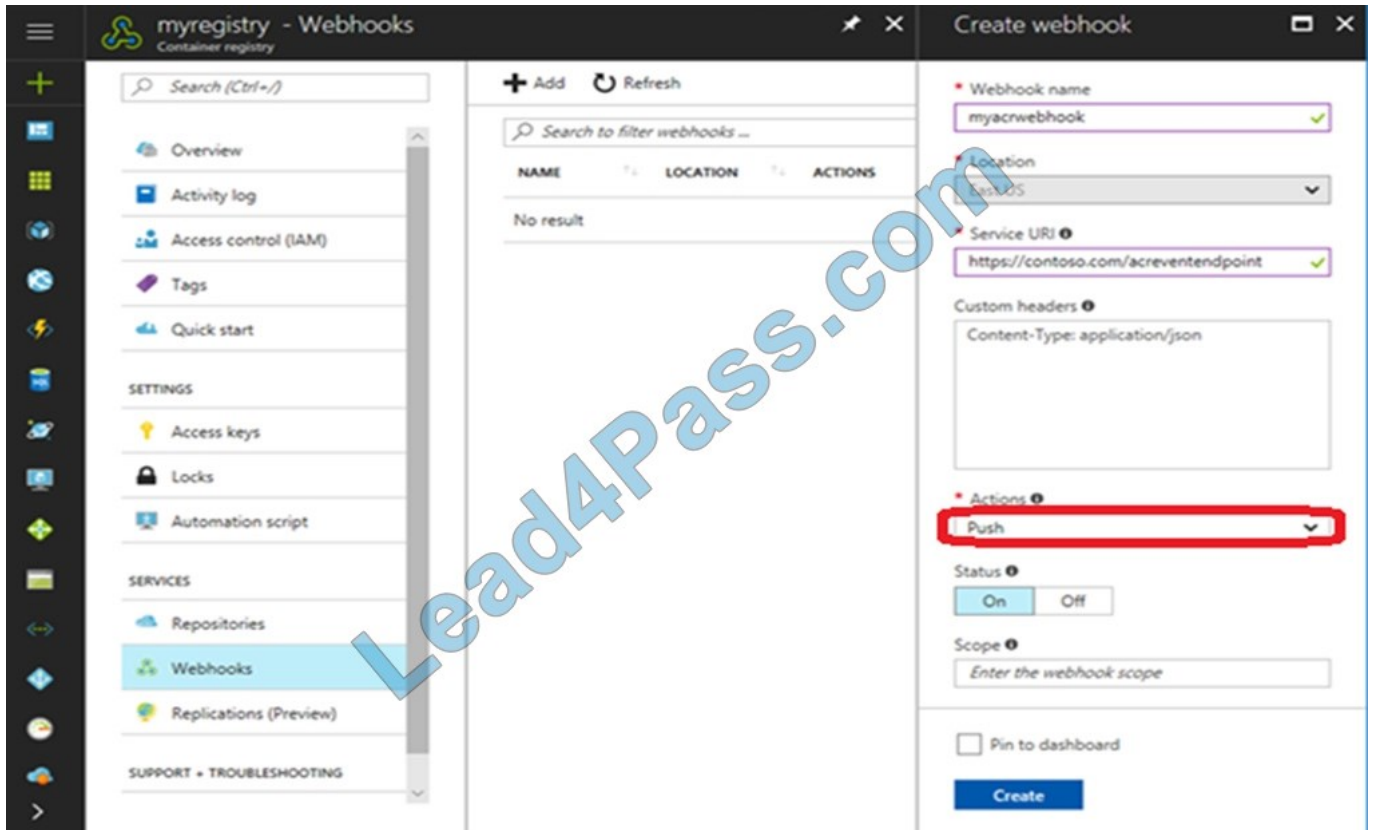
4.

Select the existing webhook <https://contoso.com/statushook>, and double-click on it to get its properties.

5.

For Trigger actions select image push

Example web hook: Reference: <https://docs.microsoft.com/en-us/azure/container-registry/container-registry-webhook>



### QUESTION 9

#### HOTSPOT

You need to configure a cloud service to store the secrets required by the mobile applications to call the share pricing service.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

Required secrets:

Certificate
Personal access token
Shared Access Authorization token
Username and password

Storage location:

Azure Data Lake
Azure Key Vault
Azure Storage with HTTP access
Azure Storage with HTTPS access

Correct Answer:

## Answer Area

Required secrets:

Certificate
Personal access token
Shared Access Authorization token
Username and password

Storage location:

Azure Data Lake
Azure Key Vault
Azure Storage with HTTP access
Azure Storage with HTTPS access

Box 1: Shared Access Authorization token

Every request made against a storage service must be authorized, unless the request is for a blob or container resource that has been made available for public or signed access. One option for authorizing a request is by using Shared Key.

Box 2: Azure Storage with HTTPS access



Scenario: The mobile applications must be able to call the share pricing service of the existing retirement fund management system. Until the system is upgraded, the service will only support basic authentication over HTTPS.

The investment planning application suite will include one multi-tier web application and two iOS mobile application. One mobile application will be used by employees; the other will be used by customers.

Reference:

<https://docs.microsoft.com/en-us/rest/api/storageservices/authorize-with-shared-key>

## QUESTION 10

DRAG DROP

You are configuring Azure Pipelines for three projects in Azure DevOps as shown in the following table.

Project name	Project Details
Project1	The project team provides preconfigured YAML files that it wants to use to manage future pipeline configuration changes.
Project2	The sensitivity of the project requires that the source code be hosted on the managed Windows server on your company's network.
Project3	The project team requires a centralized version control system to ensure that developers work with the most recent version.

Which version control system should you recommend for each project? To answer, drag the appropriate version control systems to the correct projects. Each version control system may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



### Version Control Systems

- Assembla Subversion
- Bitbucket Cloud
- Git in Azure Repos
- GitHub Enterprise

### Answer Area

Project1:

Project2:

Project3:

Correct Answer:

### Version Control Systems

- Assembla Subversion
- 

### Answer Area

Project1:

Project2:

Project3:

Project1:Git in Azure Repos

Project2: Github Enterprise

GitHub Enterprise is the on-premises version of GitHub.com. GitHub Enterprise includes the same great set of features as GitHub.com but packaged for running on your organization's local network. All repository data is stored on machines

that you control, and access is integrated with your organization's authentication system (LDAP, SAML, or CAS).

Project3: Bitbucket cloud

One downside, however, is that Bitbucket does not include support for SVN but this can be easily amended migrating the SVN repos to Git with tools such as SVN Mirror for Bitbucket .

Note: SVN is a centralized version control system.

Incorrect Answers:

Bitbucket:

Bitbucket comes as a distributed version control system based on Git.



Note: A source control system, also called a version control system, allows developers to collaborate on code and track changes. Source control is an essential tool for multi-developer projects.

Our systems support two types of source control: Git (distributed) and Team Foundation Version Control (TFVC). TFVC is a centralized, client-server system. In both Git and TFVC, you can check in files and organize files in folders, branches,

and repositories.

References:

<https://www.azuredevopslabs.com/labs/azuredevops/yaml/>

<https://enterprise.github.com/faq>

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### QUESTION 11

You are automating the build process for a Java-based application by using Azure DevOps.

You need to add code coverage testing and publish the outcomes to the pipeline.

What should you use?

- A. Cobertura
- B. Bullseye Coverage
- C. MSTest
- D. Coverlet
- E. NUnit
- F. Coverage.py

Correct Answer: A

Use Publish Code Coverage Results task in a build pipeline to publish code coverage results to Azure Pipelines or TFS, which were produced by a build in Cobertura or JaCoCo format.

References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/test/publish-code-coverage-results>

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### QUESTION 12

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 have an Azure DevOps project.

Your build process creates several artifacts.

You need to deploy the artifacts to on-premises servers.

Solution: You deploy an Azure self-hosted agent to an on-premises server. You add a Copy and Publish Build Artifacts task to the deployment pipeline.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

To build your code or deploy your software using Azure Pipelines, you need at least one agent.

If your on-premises environments do not have connectivity to a Microsoft-hosted agent pool (which is typically the case due to intermediate firewalls), you'll need to manually configure a self-hosted agent on on-premises computer(s). The agents must have connectivity to the target on-premises environments, and access to the Internet to connect to Azure Pipelines or Team Foundation Server.

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

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### QUESTION 13

Your company plans to use an agile approach to software development.

You need to recommend an application to provide communication between members of the development team who work in locations around the world. The applications must meet the following requirements:

1.

Provide the ability to isolate the members of different project teams into separate communication channels and to keep a history of the chats within those channels.

2.

Be available on Windows 10, Mac OS, iOS, and Android operating systems.

3.

Provide the ability to add external contractors and suppliers to projects.

4.

Integrate directly with Azure DevOps. What should you recommend?

A. Microsoft Project

B. Bamboo

C. Microsoft Lync





D. Microsoft Teams

E. Octopus

Correct Answer: D

1.

Within each team, users can create different channels to organize their communications by topic. Each channel can include a couple of users or scale to thousands of users.

2.

Microsoft Teams works on Android, iOS, Mac and Windows systems and devices. It also works in Chrome, Firefox, Internet Explorer 11 and Microsoft Edge web browsers.

3.

The guest-access feature in Microsoft Teams allows users to invite people outside their organizations to join internal channels for messaging, meetings and file sharing. This capability helps to facilitate business-to-business project management.

4.

Teams integrates with Azure DevOps.

Note: Slack would also be a correct answer, but it is not an option here.

References:

<https://searchunifiedcommunications.techtarget.com/definition/Microsoft-Teams>

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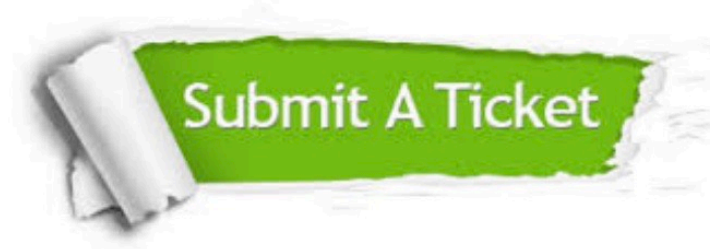
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