

# TOP Free AZ-400 Practice: Designing and Implementing Microsoft DevOps Solutions - High Pass-Rate Microsoft AZ-400 Customized Lab Simulation



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## Microsoft Designing and Implementing Microsoft DevOps Solutions Sample Questions (Q20-Q25):

### NEW QUESTION # 20

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 ServiceNow REST API.
- **B. Define a pre-deployment gate before the deployment to the Prod stage.**
- C. Define a deployment control that invokes the ServiceNow SOAP API.
- **D. Define a post-deployment gate after the deployment to the QA stage.**

**Answer: B,D**

Explanation:

An example of a release pipeline that can be modeled through a release pipeline is 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>

#### NEW QUESTION # 21

You have an Azure DevOps project that contains a release pipeline and a Git repository.

When a new code revision is committed to the repository, a build and release is triggered.

You need to ensure that release information for the pipeline is added automatically to the work items associated to the Get commit.

What should you do?

- A. Add an agentless job to the pipeline.
- **B. Modify the Integrations options for the pipeline.**
- C. Modify the service hooks for the project.
- D. Modify the post-deployment conditions for the last stage of the pipeline.

**Answer: B**

Explanation:

Service hooks in Azure DevOps allow you to trigger actions in other tools based on events that occur in your Azure DevOps project. To automatically add release information to work items associated with a Get commit, you would need to configure a service hook that listens for commit events in your Get repository, and then sends the release information to the appropriate work items.

Here's the steps you can follow to set up a service hook for this purpose:

In your Azure DevOps project, navigate to the project settings by clicking on the gear icon in the top right corner of the page.

Select "Service Hooks" from the left-hand menu.

Click on the "New Subscription" button to create a new service hook.

In the "Event" drop-down menu, select "Code pushed" to trigger the service hook when a new code revision is committed to the repository.

In the "Actions" section, select the action that you want to take place when the service hook is triggered.

For example, you might use the "Link work items to commits" action to automatically associate work items with the relevant commits.

Configure the remaining settings as needed, and then click on the "Create" button to create the service hook.

You can find more information on Service hooks in Azure DevOps by following this link

<https://docs.microsoft.com/en-us/azure/devops/service-hooks/overview?view=azure-devops>

#### NEW QUESTION # 22

You have a project in Azure DevOps.

You plan to deploy a self-hosted agent by using an unattended configuration script.  
Which two values should you define in the configuration script? Each correct answer presents part of the solution.  
NOTE: Each correct selection is worth one point.

- A. the organization URL
- B. the project name
- C. authorization credentials
- D. the agent pool name
- E. the deployment group name

**Answer: A,C**

Explanation:

Explanation

Unattended config:

The agent can be set up from a script with no human intervention. You must pass --unattended and the answers to all questions. To configure an agent, it must know the URL to your organization or collection and credentials of someone authorized to set up agents. All other responses are optional.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/v2-windows>

Topic 3, Woodgrove bank

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the button to return to the question.

Overview

General Overview

Woodgrove Bank is a financial services company that has a main office in the United Kingdom.

Technical Requirements and Planned Changes

Planned Changes

Woodgrove Bank plans to implement the following project management changes:

Implement Azure DevOps for project tracking.

Centralize source code control in private GitHub repositories.

Implement Azure Pipelines for build pipelines and release pipelines.

Woodgrove Bank plans to implement the following changes to the identity environment:

Deploy an Azure AD tenant named woodgrovebank.com.

Sync the Active Directory domain to Azure AD.

Configure App1 to use a service principal.

Integrate GitHub with Azure AD.

Woodgrove Bank plans to implement the following changes to the core apps:

Migrate App1 to ASP.NET Core.

Integrate Azure Pipelines and the third-party build tool used to develop App2.

Woodgrove Bank plans to implement the following changes to the DevOps environment:

Deploy App1 to Azure App Service.

Implement source control for the DB1 schema.

Migrate all the source code from TFS1 to GitHub.

Deploy App2 to an Azure virtual machine named VM1.

Merge the POC branch into the GitHub default branch.

Implement an Azure DevOps dashboard for stakeholders to monitor development progress.

Technical Requirements

Woodgrove Bank identifies the following technical requirements:

The initial databases for new environments must contain both schema and reference data.  
 An Azure Monitor alert for VM1 must be configured to meet the following requirements:  
 Be triggered when average CPU usage exceeds 80 percent for 15 minutes.  
 Calculate CPU usage averages once every minute.  
 The commit history of the POC branch must replace the history of the default branch.  
 The Azure DevOps dashboard must display the metrics shown in the following table.

Number	Required data
1	A comparison between the work the development team planned to deliver and what was delivered
2	The status of the environments in a release definition
3	The total number of results from a work item query

Access to Azure DevOps must be restricted to specific IP addresses.  
 Page load times for App1 must be captured and monitored.  
 Administrative effort must be minimized.

### NEW QUESTION # 23

You need to implement Project4.  
 What should you do first?

- A. Add the MAINTAINER instruction in the Dockerfile file.
- B. Add a Copy and Publish Build Artifacts task to the build pipeline.
- C. Add the FROM instruction in the Dockerfile file.
- **D. Add a Docker task to the build pipeline.**

**Answer: D**

Explanation:

Scenario: Implement Project4 and configure the project to push Docker images to Azure Container Registry.

Project 4	Project4 will provide support for a build pipeline that creates a Docker image and pushes the image to the Azure Container Registry. Project4 will use an existing Dockerfile.
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You use Azure Container Registry Tasks commands to quickly build, push, and run a Docker container image natively within Azure, showing how to offload your "inner-loop" development cycle to the cloud. ACR Tasks is a suite of features within Azure Container Registry to help you manage and modify container images across the container lifecycle.

References:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-quickstart-task-cli>

### NEW QUESTION # 24

Your company uses cloud-hosted Jenkins for builds.  
 You need to ensure that Jenkins can retrieve source code from Azure Repos.  
 Which three actions should you perform? Each correct answer presents part of the solution.  
 NOTE: Each correct selection is worth one point.

- **A. Add the Team Foundation Server (TFS) plug-in to Jenkins.**
- B. Add the dev.azure.com hostname to your Jenkins account.
- **C. Create a personal access token in your Azure DevOps account.**
- **D. Create a service hook in Azure DevOps.**
- E. Create a webhook in Jenkins.

**Answer: A,C,D**

Explanation:

B: Jenkins' built-in Git Plugin or Team Foundation Server Plugin can poll a Team Services repository every few minutes and queue a job when changes are detected.

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