

## Exam Questions AZ-400

Microsoft Azure DevOps Solutions (beta)

<https://www.2passeasy.com/dumps/AZ-400/>



#### NEW QUESTION 1

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 integrate a cloud-hosted Jenkins server and a new Azure DevOps deployment. You need Azure DevOps to send a notification to Jenkins when a developer commits changes to a branch in Azure Repos.

Solution: You create an email subscription to an Azure DevOps notification. Does this meet the goal?

- A. Yes
- B. NO

**Answer: B**

#### Explanation:

You can create a service hook for Azure DevOps Services and TFS with Jenkins. References:

<https://docs.microsoft.com/en-us/azure/devops/service-hooks/services/jenkins>

#### NEW QUESTION 2

Note: This question 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.

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You integrate a cloud-hosted Jenkins server and a new Azure DevOps deployment. You need Azure DevOps to send a notification to Jenkins when a developer commits changes to a branch in Azure Repos.

Solution: You add a trigger to the build pipeline. Does this meet the goal?

- A. Yes
- B. NO

**Answer: B**

#### Explanation:

You can create a service hook for Azure DevOps Services and TFS with Jenkins. References:

<https://docs.microsoft.com/en-us/azure/devops/service-hooks/services/jenkins>

#### NEW 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.

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Your company has a project in Azure DevOps for a new web application. You need to ensure that when code is checked in, a build runs automatically.

Solution: From the Continuous deployment trigger settings of the release pipeline, you enable the Pull request trigger setting.

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

#### Explanation:

In Visual Designer you enable continuous integration (CI) by:

„hSelect the Triggers tab.

„hEnable Continuous integration. References:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/get-started-designer>

#### NEW QUESTION 4

You need to recommend a Docker container build strategy that meets the following requirements

¡E Minimizes image sizes

¡E Minimizes the security surface area of the final image What should you include in the recommendation?

- A. multi-stage builds
- B. single-stage builds
- C. PowerShell Desired State Configuration (DSC)
- D. Docker Swarm

**Answer: A**

#### Explanation:

Multi-stage builds are a new feature requiring Docker 17.05 or higher on the daemon and client. Multistage builds are useful to anyone who has struggled to optimize Dockerfiles while keeping them easy to read and maintain. References: <https://docs.docker.com/develop/develop-images/multistage-build/>

#### NEW QUESTION 5

HOTSPOT

You have a project Azure DevOps.

You plan to create a build pipeline that will deploy resources by using Azure Resource Manager templates. The templates will reference secrets stored in Azure Key Vault.

You need to ensure that you can dynamically generate the resource ID of the key vault during template deployment.

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

NOTE: Each correct selection is worth one point.

```

"resources": [
{
  "apiversion": "2018-05-01",
  "name" : "secrets",
  "type": 
  {
    "Microsoft.KeyVault/vaults",
    "Microsoft.Resources/deployment",
    "Microsoft.Subscription/subscriptions"
  }
  "properties":{
    "mode" : "Incremental",
    :{
      "deployment"
      "template"
      "templateLink"
    }
  }
},
contentVersion" : "1.0.0.0",
  "uri" : "[uri(parameters('_artifactsLocation'),
concat('./nested/sqlserver.json',
parameters('_artifactsLocationSasToken')))]"
},
"parameters":{
  "secret":{
    "reference":{
      "keyVault":{
        "id": "[resourceId(parameters('vaultSubscription'),
parameters('vaultResourceGroupName'),
'Microsoft.KeyVault/vaults',
parameters('vaultName'))]"
      },
      "secretName": "[parameters('secretName')]"
    }
  }
}
],

```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```

"resources": [
{
  "apiversion": "2018-05-01",
  "name" : "secrets",
  "type": 
  {
    "Microsoft.KeyVault/vaults",
    "Microsoft.Resources/deployment",
    "Microsoft.Subscription/subscriptions"
  }
  "properties":{
    "mode" : "Incremental",
    :{
      "deployment"
      "template"
      "templateLink"
    }
  }
},
contentVersion" : "1.0.0.0",
  "uri" : "[uri(parameters('_artifactsLocation'),
concat('./nested/sqlserver.json',
parameters('_artifactsLocationSasToken')))]"
},

```

```

    },
    "parameters": {
      "secret": {
        "reference": {
          "keyVault": {
            "id": "[resourceId(parameters('vaultSubscription'),
              parameters('vaultResourceGroupName'),
              'Microsoft.KeyVault/vaults',
              parameters('vaultName'))]"
          },
          "secretName": "[parameters('secretName')]"
        }
      }
    }
  },
  "outputs": {
    "secret": {
      "type": "string",
      "value": "[parameters('secretName')]"
    }
  }
},
],

```

#### NEW QUESTION 6

Your company has an on-premises Bitbucket Server that is used for Git-based source control. The server is protected by a firewall that blocks inbound Internet traffic.

You plan to use Azure DevOps to manage the build and release processes. Which two components are required to integrate Azure DevOps and Bitbucket? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. an External Git service connection
- B. a Microsoft hosted agent
- C. service hooks
- D. a self-hosted agent
- E. a deployment M group

**Answer:** AD

#### Explanation:

When a pipeline uses a remote, 3rd-party repository host such as Bitbucket Cloud, the repository is configured with webhooks that notify Azure Pipelines Server or TFS when code has changed and a build should be triggered. Since on-premises installations are normally protected behind a firewall, 3rd-party webhooks are unable to reach the on-premises server. As a workaround, you can use the External Git repository type which uses polling instead of webhooks to trigger a build when code has changed.

References: <https://docs.microsoft.com/enus/azure/devops/pipelines/repos/pipeline-options-for-bitbucket>

#### NEW QUESTION 7

DRAG DROP

You are configuring Azure DevOps build pipelines. You plan to use hosted build agents.

Which build agent pool should you use to compile each application type? To answer, drag the appropriate built agent pools to the correct application types. Each built agent pool 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.

Build Agent Pools	Answer Area
Hosted Windows Container	
Hosted Ubuntu 1604	
Hosted macOS	An application that runs on iOS: <input type="text"/>
Hosted	An Internet Information Services (IIS) web application that runs in Docker: <input type="text"/>
Default	

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: Hosted macOS

Hosted macOS pool (Azure Pipelines only): Enables you to build and release on macOS without having to configure a self-hosted macOS agent. This option affects where your data is stored.

Box 2: Hosted

Hosted pool (Azure Pipelines only): The Hosted pool is the built-in pool that is a collection of Microsoft-hosted agents.



Incorrect Answers:

Default pool: Use it to register self-hosted agents that you've set up.

Hosted Windows Container pool (Azure Pipelines only): Enabled you to build and release inside Windows containers. Unless you're building using containers, Windows builds should run in the Hosted VS2017 or Hosted pools.

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

#### NEW QUESTION 8

You have an Azure Resource Manager template that deploys a multi-tier application. You need to prevent the user who performs the deployment from viewing the account credentials and connection strings used by the application.

What should you use?

- A. an Azure Resource Manager parameter file
- B. an Azure Storage table
- C. an Appsettings.json files
- D. Azure Key Vault
- E. a Web.config file

**Answer:** D

#### Explanation:

When you need to pass a secure value (like a password) as a parameter during deployment, you can retrieve the value from an Azure Key Vault. You retrieve the value by referencing the key vault and secret in your parameter file. The value is never exposed because you only reference its key vault ID. The key vault can exist in a different subscription than the resource group you are deploying to. References: <https://docs.microsoft.com/en-us/azure/azure-resourcemanager/resource-manager-keyvault-parameter>

#### NEW QUESTION 9

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 answer selection is worth one point

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

**Answer:** ABE

#### Explanation:

References:

<https://blogs.msdn.microsoft.com/devops/2017/04/25/vsts-visual-studio-teamservices-integration-with-jenkins/>

<http://www.aisoftwarellc.com/blog/post/how-to-setup-automated-builds-using-jenkins-and-visual-studio-team-foundation-server/2044>

#### NEW QUESTION 10

You plan to share packages that you wrote, tested, validated, and deployed by using Azure Artifacts.

You need to release multiple builds of each package by using a single feed. The solution must limit the release of packages that are in development.

What should you use?

- A. global symbols
- B. local symbols
- C. upstream sources
- D. views

**Answer:** C

#### Explanation:

Upstream sources enable you to manage all of your product's dependencies in a single feed. We recommend publishing all of the packages for a given product to that product's feed, and managing that product's dependencies from remote feeds in the same feed, via upstream sources. This setup has a few benefits:

„hSimplicity: your NuGet.config, .npmrc, or settings.xml contains exactly one feed (your feed).

„hDeterminism: your feed resolves package requests in order, so rebuilding

the same codebase at the same commit or changeset uses the same set of packages

„hProvenance: your feed knows the provenance of packages it saved via upstream sources, so you can verify that you're using the original package, not a custom or malicious copy published to your feed

„hPeace of mind: packages used via upstream sources are guaranteed to be saved in the feed on first use; if the upstream source is disabled/removed, or the remote feed goes down or deletes a package you depend on, you can continue to develop and build

References: <https://docs.microsoft.com/enus/azure/devops/artifacts/concepts/upstream-sources?view=vsts>

#### NEW QUESTION 10

Your company uses Service Now for incident management. You develop an application that runs on Azure.

The company needs to generate a ticket in Service Now when the application fails to authenticate.

Which Azure Log Analytics solution should you use?

- A. Automation & Control
- B. IT Service Management Connector (ITSM)
- C. Application ImiQ.hu Connector
- D. insight & Analytics

**Answer:** B

**Explanation:**

The IT Service Management Connector (ITSMC) allows you to connect Azure and a supported IT Service Management (ITSM) product/service.

ITSMC supports connections with the following ITSM tools:

„hServiceNow

„hSystem Center Service Manager

„hProvance

„hCherwell

With ITSMC, you can

„hCreate work items in ITSM tool, based on your Azure alerts (metric alerts, Activity Log alerts and Log Analytics alerts).

„hOptionally, you can sync your incident and change request data from your ITSM tool to an Azure Log Analytics workspace.

References: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/itsmcoverview>

**NEW QUESTION 15**

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You have an approval process that contains a condition. The condition requires that releases be approved by a team leader before they are deployed.

You have a policy stating that approvals must occur within eight hours.

You discover that deployment fail if the approvals take longer than two hours. You need to ensure that the deployments only fail if the approvals take longer than eight hours.

Solution: From Pre-deployment conditions, you modify the Time between reevaluation of gates option.

Does this meet the goal?

A. Yes

B. No

**Answer: A**

**Explanation:**

Gates allow automatic collection of health signals from external services, and then promote the release when all the signals are successful at the same time or stop the deployment on timeout. Typically, gates are used in connection with incident management, problem management, change management, monitoring, and external approval systems.

References: <https://docs.microsoft.com/enus/azure/devops/pipelines/release/approvals/gates>

Approvals and gates give you additional control over the start and completion of the deployment pipeline. Each stage in a release pipeline can be configured with predeployment and post-deployment conditions that can include waiting for users to

manually approve or reject deployments, and checking with other automated systems until specific conditions are verified.

**NEW QUESTION 19**

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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 create a release pipeline that will deploy Azure resources by using Azure Resource Manager templates. The release pipeline will create the following resources:

„hTwo resource groups

„hFour Azure virtual machines in one resource group

„hTwo Azure SQL databases in other resource group

You need to recommend a solution to deploy the resources.

Solution: Create two standalone templates, each of which will deploy the resources in its respective group.

Does this meet the goal?

A. Yes

B. No

**Answer: B**

**Explanation:**

Use a main template and two linked templates.

References: <https://docs.microsoft.com/en-us/azure/azure-resourcemanager/resource-group-linked-templates>

**NEW QUESTION 22**

Your company is concerned that when developers introduce open source libraries, it creates licensing compliance issues.

You need to add an automated process to the build pipeline to detect when common open source libraries are added to the code base.

What should you use?

A. Microsoft Visual SourceSafe

B. PDM

C. WhiteSource

D. OWASP ZAP

**Answer: C**

**Explanation:**

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.

Azure DevOps integration with WhiteSource Bolt will enable you to:

„hDetect and remedy vulnerable open source components.

„hGenerate comprehensive open source inventory reports per project or build.

„hEnforce open source license compliance, including dependencies' licenses.

„hIdentify outdated open source libraries with recommendations to update. References: <https://www.azuredevopslabs.com/labs/vstsextend/WhiteSource/>

#### NEW QUESTION 25

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 integrate a cloud-hosted Jenkins server and a new Azure DevOps deployment. You need Azure DevOps to send a notification to Jenkins when a developer commits changes to a branch in Azure Repos. Solution: You create a service hook subscription that uses the build completed event. Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

#### NEW QUESTION 29

Your company is building a mobile app that targets Android devices and OS devices. Your team uses Azure DevOps to manage all work items and release cycles. You need to recommend a solution to perform the following tasks:

- Collect crash reports for issue analysis
- Distribute beta releases to your testers.
- Get user feedback on the functionality of new apps. What should you include in the recommendation?

- A. Jenkins integration
- B. Azure Application Insights widgets
- C. the Microsoft Test & Feedback extension
- D. Microsoft Visual Studio App Center integration

**Answer:** D

#### NEW QUESTION 34

Your company has a project in Azure DevOps. You need to ensure that when there are multiple builds pending deployment, only the most recent build is deployed. What should you use?

- A. deployment queue settings
- B. deployment conditions
- C. release gates
- D. pull request triggers

**Answer:** A

#### NEW QUESTION 37

DRAG DROP

You plan to use Azure Kubernetes Service (AKS) to host containers deployed from images hosted in a Docker Trusted Registry. You need to recommend a solution for provisioning and connecting to AKS. The solution must ensure that AKS is RBAC-enabled and uses a custom service principal. Which three commands should you recommend be run in sequence? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Commands		Answer Area
kubectl create	<div>➤</div> <div>➡</div>	1
az role assignment create		2
az aks get-credentials		3
az ad sp create-for-rbac		
az aks create		

⬅

⬆

⬆

⬅

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Commands		Answer Area
kubectl create	<div>➤</div> <div>➡</div>	1 az aks create
az role assignment create		2 az aks get-credentials
		3 az ad sp create-for-rbac

⬅

⬆

⬆

⬅

NEW QUESTION 38

DRAG DROP

You need to configure Azure Automation for the computer in Group7.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Run the Import-AzureRmAutomationDscConfiguration Azure PowerShell cmdlet	
Create a Desired State Configuration (DSC) configuration file that has an extension of .ps1	
Run the New-AzureRmResourceGroupDeployment Azure PowerShell cmdlet	⬅️ ➡️
Run the Start-AzureRmAutomationDscCompilationJob Azure PowerShell cmdlet	⬆️ ⬆️
Create an Azure Resource Manager template file that has an extension of .json.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create a Desired State Configuration (DSC) configuration file that has an extension of .ps1.

Step 2: Run the Import-AzureRmAutomationDscConfiguration Azure Powershell cmdlet

The Import-AzureRmAutomationDscConfiguration cmdlet imports an APS Desired State Configuration (DSC) configuration into Azure Automation. Specify the path of an APS script that contains a single DSC configuration.

Example:

```
PS C:\>Import-AzureRmAutomationDscConfiguration -AutomationAccountName "Contoso17"-ResourceGroupName "ResourceGroup01" -SourcePath "C:\DSC\client.ps1" -Force
```

This command imports the DSC configuration in the file named client.ps1 into the Automation account named Contoso17. The command specifies the Force parameter. If there is an existing DSC configuration, this command replaces it. Step 3: Run the Start-AzureRmAutomationDscCompilationJob Azure Powershell cmdlet

The Start-AzureRmAutomationDscCompilationJob cmdlet compiles an APS Desired State Configuration (DSC) configuration in Azure Automation.

References:

<https://docs.microsoft.com/en-us/powershell/module/azurermsautomation/importazurermsautomationdscconfiguration> <https://docs.microsoft.com/en-us/powershell/module/azurermsautomation/startazurermsautomationdsc compilationjob>

NEW QUESTION 43

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