

## Exam Questions AZ-400

Microsoft Azure DevOps Solutions (beta)

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



### NEW QUESTION 1

- (Topic 4)

Your team uses Azure Pipelines to deploy applications.

You need to ensure that when a failure occurs during the build or release process, all the team members are notified by using Microsoft Teams. The solution must minimize development effort.

What should you do?

- A. Install the Azure Boards app for Teams and configure a subscription to receive notifications in a channel.
- B. Use Azure Automation to connect to the Azure DevOps REST API and notify the team members.
- C. Use an Azure function to connect to the Azure DevOps REST API and notify the team members.
- D. Install the Azure Pipelines app for Teams and configure a subscription to receive notifications in a channel.

**Answer:** D

### NEW QUESTION 2

SIMULATION - (Topic 4)

You need to create a notification if the peak average response time of an Azure web app named az400-9940427-main is more than five seconds when evaluated during a five- minute period. The notification must trigger the "https://contoso.com/notify" webhook.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

- \* 1. Open Microsoft Azure Portal
- \* 2. Log into your Azure account and go to App Service and look under Monitoring then you will see Alert.
- \* 3. Select Add an alert rule
- \* 4. Configure the alert rule as per below and click Ok. Source: Alert on Metrics  
Resource Group: az400-9940427-main Resource: az400-9940427-main Threshold: 5  
Period: Over the last 5 minutes Webhook: https://contoso.com/notify

## Add an alert rule

**\* Threshold** ⓘ

bytes/second

**\* Period** ⓘ

Over the last 5 minutes
▼

Email service and co-administrators

Additional administrator email

**Webhook** ⓘ

[Learn more about configuring webhooks](#)

OK

References:  
<https://azure.microsoft.com/es-es/blog/webhooks-for-azure-alerts/>

**NEW QUESTION 3**

DRAG DROP - (Topic 4)

You have an Azure DevOps pipeline that is used to deploy a Node.js app.

You need to ensure that the dependencies are cached between builds.

How should you configure the deployment YAML? To answer, drag the appropriate values to the correct targets. Each value 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.

<p><b>Values</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">always()</div> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">build.sh</div> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">eq(variables.CACHE_RESTORED, 'true')</div> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">integrationtest.sh</div> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">ne(variables.CACHE_RESTORED, 'true')</div> <div style="border: 1px solid #ccc; padding: 2px;">npm install</div>	<div style="border-left: 1px solid #ccc; border-right: 1px solid #ccc; height: 100px; margin: 0 auto;"></div>	<p><b>Answer Area</b></p> <pre style="font-family: monospace; font-size: 0.9em;">             inputs:               key: 'npm   "\$(Agent.OS)"   package-lock.json'               restoreKeys:                   npm   "\$(Agent.OS)"               path: \$(npm_config_cache)               cacheHitVar: CACHE_RESTORED              - script:               condition:           </pre> <div style="border: 1px dashed #ccc; padding: 2px; width: fit-content; margin: 5px auto;">Value</div> <div style="border: 1px dashed #ccc; padding: 2px; width: fit-content; margin: 5px auto;">Value</div>
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- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Values**

- always()
- build.sh
- eq(variables.CACHE\_RESTORED, 'true')
- integrationtest.sh
- ne(variables.CACHE\_RESTORED, 'true')
- npm install

**Answer Area**

```

inputs:
  key: 'npm | "$(Agent.OS)" | package-lock.json'
  restoreKeys: |
    npm | "$(Agent.OS)"
  path: $(npm_config_cache)
  cacheHitVar: CACHE_RESTORED

- script: npm install
  condition: ne(variables.CACHE_RESTORED, 'true')
            
```

**NEW QUESTION 4**

FILL IN THE BLANK - (Topic 4)

You use Get for source control. You have an app named Appt.

In the main branch, you need to restore the third most recent revision of a file named App.exe.config .

How should you complete command?

```

git [ ] main
git restore [ ] main~3 App.exe.config
            
```

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

```

git checkout main
git restore --patch main~3 App.exe.config
            
```

**NEW QUESTION 5**

HOTSPOT - (Topic 4)

You have a project in Azure DevOps that includes two users named User1 and User2. You plan to use Azure Monitor to manage logs.

You need to ensure that the users can perform the actions shown in following the table.

User	Action
User1	<ul style="list-style-type: none"> <li>• Create private monitoring dashboards.</li> <li>• Search usage data for an Azure Monitor workspace.</li> </ul>
User2	<ul style="list-style-type: none"> <li>• View autoscale settings.</li> <li>• View alert activities and settings.</li> </ul>

The solution must follow the principle of least privilege.

Which role should you assign to each user? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

User1:

- Monitoring Contributor
- Log Analytics Reader
- Monitoring Contributor**
- Monitoring Metrics Publisher
- Monitoring Reader

User2:

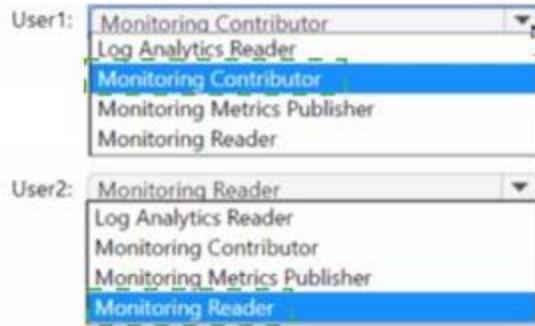
- Monitoring Reader
- Log Analytics Reader
- Monitoring Contributor
- Monitoring Metrics Publisher
- Monitoring Reader**

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Answer Area



**NEW QUESTION 6**

- (Topic 4)

Your company has a hybrid cloud between Azure and Azure Stack.

The company uses Azure DevOps for its CI/CD pipelines. Some applications are built by using Erlang and Hack.

You need to ensure that Erlang and Hack are supported as part of the build strategy across the hybrid cloud. The solution must minimize management overhead.

What should you use to execute the build pipeline?

- A. AzureDevOps self-hosted agents on Azure DevTest Labs virtual machines.
- B. AzureDevOps self-hosted agents on virtual machine that run on Azure Stack
- C. AzureDevOps self-hosted agents on Hyper-V virtual machines
- D. a Microsoft-hosted agent

**Answer: B**

**Explanation:**

Azure Stack offers virtual machines (VMs) as one type of an on-demand, scalable computing resource. You can choose a VM when you need more control over the computing environment.

References: <https://docs.microsoft.com/en-us/azure/azure-stack/user/azure-stack-compute-overview>

**NEW QUESTION 7**

- (Topic 4)

You have an Azure subscription that contains an Azure pipeline named Pipeline1 and a GitHub repository named Repo1, Repo1 contains Bicep modules.

Pipeline1 deploys Azure resources by using the Bicep modules.

You need to ensure that all releases comply with Azure Policy before they are deployed to production.

What should you do?

- A. Configure a deployment gate for Pipeline1 include the Azure DevOps Security and compliance assessment task.
- B. Create an Azure DevOps build runs on the creation of a pull request assesses the code for compliance.
- C. To Pipeline1, add a step that runs a What If deployment before the deployment step.
- D. Configure a deployment gate for Pipeline1 that uses Azure Automation to run a What If deployment

**Answer: A**

**NEW QUESTION 8**

DRAG DROP - (Topic 4)

You need to recommend project metrics for dashboards in Azure DevOps.

Which chart widgets should you recommend for each metric? To answer, drag the appropriate chart widgets to the correct metrics. Each chart widget 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.

**Chart Widgets**

**Answer Area**

Burndown	The elapsed time from the creation of work items to their completion:	
Cycle Time	The elapsed time to complete work items once they are active:	
Lead Time	The remaining work:	
Velocity		

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: Lead time

Lead time measures the total time elapsed from the creation of work items to their completion.

Box 2: Cycle time

Cycle time measures the time it takes for your team to complete work items once they begin actively working on them.

Box 3: Burndown

Burndown charts focus on remaining work within a specific time period.

**NEW QUESTION 9**

- (Topic 4)

Your company has a project in Azure DevOps for a new application. The application will be deployed to several Azure virtual machines that run Windows Server 2022. You need to recommend a deployment strategy for the virtual machines. The strategy must meet the following requirements:

- Ensure that the virtual machines maintain a consistent configuration.
- Minimize administrative effort to configure the virtual machines. What should you include in the recommendation?

- A. Azure Resource Manager templates and the PowerShell Desired State Configuration (DSC) extension for Windows
- B. Deployment YAML and Azure pipeline deployment groups
- C. Azure Resource Manager templates and the Custom Script Extension for Windows
- D. Deployment YAML and Azure pipeline stage templates

**Answer: C**

**NEW QUESTION 10**

- (Topic 4)

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.

Your company uses Azure DevOps to manage the build and release processes for applications.

You use a Git repository for applications source control.

You need to implement a pull request strategy that reduces the history volume in the master branch.

Solution: You implement a pull request strategy that uses a three-way merge. Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Instead use fast-forward merge.

Note:

No fast-forward merge - This option merges the commit history of the source branch when the pull request closes and creates a merge commit in the target branch.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/repos/git/branch-policies>

**NEW QUESTION 10**

HOTSPOT - (Topic 4)

Your company uses Team Foundation Server 2013 (TFS 2013). You plan to migrate to Azure DevOps.

You need to recommend a migration strategy that meets the following requirements:

- ? Preserves the dates of Team Foundation Version Control changesets
- ? Preserves the changes dates of work items revisions
- ? Minimizes migration effort
- ? Migrates all TFS artifacts

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

NOTE: Each correct selection is worth one point.

On the TFS server:

Install the TFS Java SDK.

Upgrade TFS to the most recent RTW release.

Upgrade to the most recent version of PowerShell Core.

To perform the migration:

Copy the assets manually.

Use public API-based tools.

Use the TFS Database Import Service.

Use the TFS Integration Platform.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: Upgrade TFS to the most recent RTM release.

One of the major prerequisites for migrating your Team Foundation Server database is to get your database schema version as close as possible to what is currently deployed in Azure DevOps Services.

Box 2: Use the TFS Database Import Service

In Phase 3 of your migration project, you will work on upgrading your Team Foundation Server to one of the supported versions for the Database Import Service in Azure DevOps Services.

References: Team Foundation Server to Azure DevOps Services Migration Guide

#### NEW QUESTION 11

- (Topic 4)

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.

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 Pre-deployment conditions settings of the release pipeline, you select Batch changes while a build is in progress.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### Explanation:

Use a Pull request trigger.

Note: Batch changes

Select this check box if you have a lot of team members uploading changes often and you want to reduce the number of builds you are running. If you select this option, when a build is running, the system waits until the build is completed and then queues another build of all changes that have not yet been built.

References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/build/triggers>

#### NEW QUESTION 13

- (Topic 4)

You have a GitHub repository that contains workflows. The workflows contain steps that execute predefined actions. Each action has one or more versions.

You need to request the specific version of an action to execute.

Which three attributes can you use to identify the version? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. the SHA-based hashes
- B. the tag
- C. the runner
- D. the branch
- E. the serial

**Answer:** ABD

#### Explanation:

<https://docs.github.com/en/actions/using-workflows/workflow-syntax-for-github-actions>

"We strongly recommend that you include the version of the action you are using by specifying a Git ref, SHA, or Docker tag. If you don't specify a version, it could break your workflows or cause unexpected behavior when the action owner publishes an update. Using the commit SHA of a released action version is the safest for stability and security. If the action publishes major version tags, you should expect to receive critical fixes and security patches while still retaining compatibility. Note that this behavior is at the discretion of the action's author. Using the default branch of an action may be convenient, but if someone releases a new major version with a breaking change, your workflow could break."

#### NEW QUESTION 18

- (Topic 4)

You have an Azure DevOps organization named Contoso.

You need to recommend an authentication mechanism that meets the following requirements:

- Supports authentication from Get
- Minimizes the need to provide credentials during authentication What should you recommend?

- A. managed identities in Azure Active Directory (Azure AD)
- B. personal access tokens (PATs) in Azure DevOps
- C. user accounts in Azure Active Directory (Azure AD)
- D. Alternate credentials in Azure DevOps

**Answer:** B

#### Explanation:

Personal access tokens (PATs) give you access to Azure DevOps and Team Foundation Server (TFS), without using your username and password directly. These tokens have an expiration date from when they're created. You can restrict the scope of the data they can access. Use PATs to authenticate if you don't already have SSH keys set up on your system or if you need to restrict the permissions that are granted by the credential.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/repos/git/auth-overview>

#### NEW QUESTION 19

DRAG DROP - (Topic 4)

You are using the Dependency Tracker extension in a project in Azure DevOps. You generate a risk graph for the project.

What should you use in the risk graph to identify the number of dependencies and the risk level of the project? To answer, drag the appropriate elements to the correct data points. Each element 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.

**Elements**

Link color    Link length

Link width    Node color

**Answer Area**

Number of dependencies: Element

Risk level: Element

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Elements**

Link color    Link length

Link width    Node color

**Answer Area**

Number of dependencies: Node color

Risk level: Node color

**NEW QUESTION 22**

- (Topic 4)

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.

The lead developer at your company reports that adding new application features takes longer than expected due to a large accumulated technical debt.

You need to recommend changes to reduce the accumulated technical debt.

Solution: You recommend increasing the code duplication. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead reduce the code complexity. Reference:  
<https://dzone.com/articles/fight-through-the-pain-how-to-deal-with-technical>

**NEW QUESTION 23**

- (Topic 4)

You have an Azure subscription that contains a Log Analytics workspace named WS1 and a virtual machine named VM1.

You need to install the Microsoft Enterprise Cloud Monitoring extension on VM1.

Which two values are required to configure the extension? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. the secret key of WS1
- B. the ID of the subscription
- C. the system-assigned managed identity of VM1
- D. theIDofWS1
- E. the resource ID of VM1

**Answer:** DE

**NEW QUESTION 27**

- (Topic 4)

You plan to provision a self-hosted Linux agent

Which authentication mechanism should you use to register the self-hosted agent?

- A. SSH key
- B. personal access token (PAT)
- C. Alternate credentials
- D. certificate

**Answer:** B

**Explanation:**

Note: PAT Supported only on Azure Pipelines and TFS 2017 and newer. After you choose PAT, paste the PAT token you created into the command prompt window. Use a personal access token (PAT) if your Azure DevOps Server or TFS instance and the agent machine are not in a trusted domain. PAT authentication is handled by your Azure DevOps Server or TFS instance instead of the domain controller.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/v2-linux>  
<https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/v2-linux?view=azure-devops>

**NEW QUESTION 29**

- (Topic 4)

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 need to recommend an integration strategy for the build process of a Java application.

The solution must

meet the following requirements:

? The builds must access an on-premises dependency management system.

? The build outputs must be stored as Server artifacts in Azure DevOps.

? The source code must be stored in a Git repository in Azure DevOps.

Solution: Configure an Octopus Tentacle on an on-premises machine. Use the Package Application task in the build pipeline.

Does this meet the goal?

A. Yes

B. No

**Answer: A**

**Explanation:**

Octopus Deploy is an automated deployment server that makes it easy to automate deployment of ASP.NET web applications, Java applications, NodeJS application and custom scripts to multiple environments.

Octopus can be installed on various platforms including Windows, Mac and Linux. It can also be integrated with most version control tools including VSTS and GIT. When you deploy software to Windows servers, you need to install Tentacle, a lightweight agent service, on your Windows servers so they can communicate with the Octopus server.

When defining your deployment process, the most common step type will be a package step. This step deploys your packaged application onto one or more deployment targets.

When deploying a package you will need to select the machine role that the package will be deployed to.

References:

<https://octopus.com/docs/deployment-examples/package-deployments> <https://explore.emtecinc.com/blog/octopus-for-automated-deployment-in-devops-models>

**NEW QUESTION 33**

- (Topic 4)

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 company has a prefect 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 Triggers tab of the build pipeline, you selected Batch changes while a build is in progress

Does this meet the goal?

A. Yes

B. No

**Answer: B**

**NEW QUESTION 38**

HOTSPOT - (Topic 4)

Your company uses a Git source-code repository.

You plan to implement GitFlow as a workflow strategy.

You need to identify which branch types are used for production code and preproduction code in the strategy.

Which branch type should you identify for each code type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Production code:  Master  Feature  Develop

Preproduction code:  Master  Feature  Develop

A. Mastered

B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: Master

The Master branch contains production code. All development code is merged into master in sometime.

Box 2: Develop

The Develop branch contains pre-production code. When the features are finished then they are merged into develop.

**NEW QUESTION 40**

- (Topic 4)

You have a pipeline named Pipeline1 in Azure Pipelines.

You need to create a service connection to enable Pipeline1 to download a public container image.

Which type of service connection should you create?

A. a Docker host

B. Azure Service Fabric

- C. Azure Kubernetes Service (AKS)
- D. a Docker registry

Answer: D

**NEW QUESTION 44**

- (Topic 4)

You have a project in Azure DevOps named Project that contains a Kanban board named Board1. You create a Microsoft Teams channel and add the Azure Boards app to the channel. You need to ensure that users can create work items in Board1 from Microsoft Teams. Which command should you run?

- A. @azure boards sign in
- B. @azure boards link
- C. @azure boards create
- D. @azure boards subscriptions

Answer: B

**NEW QUESTION 45**

- (Topic 4)

You plan to use Azure DevOps to build and deploy an app that will be hosted in a Kubernetes cluster. You need to scan the app image for vulnerabilities before the image is deployed to the cluster. What should you include in the solution?

- A. Microsoft Defender for DevOps
- B. Microsoft Defender for Storage
- C. Microsoft Defender for Containers
- D. Microsoft Defender for App Service

Answer: C

**NEW QUESTION 46**

HOTSPOT - (Topic 4)

You have an Azure subscription. You need to create a storage account by using a Bicep file. How should you complete the file? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

◻ ◻ ◻ ◻ ◻

**Answer Area**

```

param storageAccount string
var storageAccountNameToUse = '${storageAccount}${uniqueString(resourceGroup().id)}'
resource InvoiceStorage 'Microsoft.Storage/storageAccounts@2022-05-01' = {
  name: storageAccountNameToUse
  location: 'eastus'
  sku: {
    name: 'Standard_GRS'
  }
}

```

kind:

kind:

param:

properties:

type:

var:

properties:

kind:

param:

properties:

type:

var:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```

param storageAccount string
var storageAccountNameToUse = '${storageAccount}${uniqueString(resourceGroup().id)}'
resource InvoiceStorage 'Microsoft.Storage/storageAccounts@2022-05-01' = {
  name: storageAccountNameToUse
  location: 'eastus'
  sku: {
    name: 'Standard_GRS'
  }
}

```



**NEW QUESTION 51**

- (Topic 4)

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

- ? Two resource groups
- ? Four Azure virtual machines in one resource group
- ? Two Azure SQL databases in other resource group

You need to recommend a solution to deploy the resources.

Solution: Create a main template that will deploy the resources in one resource group and a nested template that will deploy the resources in the other resource group.

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Use two linked templates, instead of the nested template.

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

**NEW QUESTION 52**

- (Topic 4)

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 have an Azure DevOps project.

Your build process creates several artifacts.

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

Solution: You deploy a Docker build to an on-premises server. You add a Download Build Artifacts task to the deployment pipeline.

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Instead you should deploy an Azure self-hosted agent to an on-premises server.

Note: 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).

References:

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

**NEW QUESTION 54**

- (Topic 4)

You have an Azure DevOps organization named Contoso and an Azure subscription. The subscription contains an Azure virtual machine scale set named VMSS1 that is configured for auto scaling.

You have a project in Azure DevOps named Project 1. Project1 is used to build a web app named App1 and deploy App1 to VMSS1.

You need to ensure that an email alert is generated whenever VMSS1 scales in or out. Solution: From Azure Monitor, configure the auto scale settings. Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

#### NEW QUESTION 59

- (Topic 4)

You have the following Azure policy.

```
if: {
  allof: [
    {
      "field": "type",
      "equals": "Microsoft.Storage/storageAccounts"
    },
    {
      "field": "Microsoft.Storage/storageAccounts/supportsHttpsTrafficOnly",
      "notEquals": "true"
    }
  ]
}
```

- A. ensures that all data for new Azure Storage accounts is encrypted at rest
- B. prevents HTTPS traffic to new Azure Storage accounts when the accounts are accessed over the internet
- C. prevents all HTTP traffic to existing Azure Storage accounts
- D. ensures that all traffic to new Azure Storage accounts is encrypted

**Answer: A**

#### NEW QUESTION 64

- (Topic 4)

You have a web app hosted on Azure App Service. The web app stores data in an Azure SQL database.

You need to generate an alert when there are 10,000 simultaneous connections to the database. The solution must minimize development effort.

Which option should you select in the Diagnostics settings of the database?

- A. Send to Log Analytics
- B. Archive to a storage account
- C. Stream to an event hub

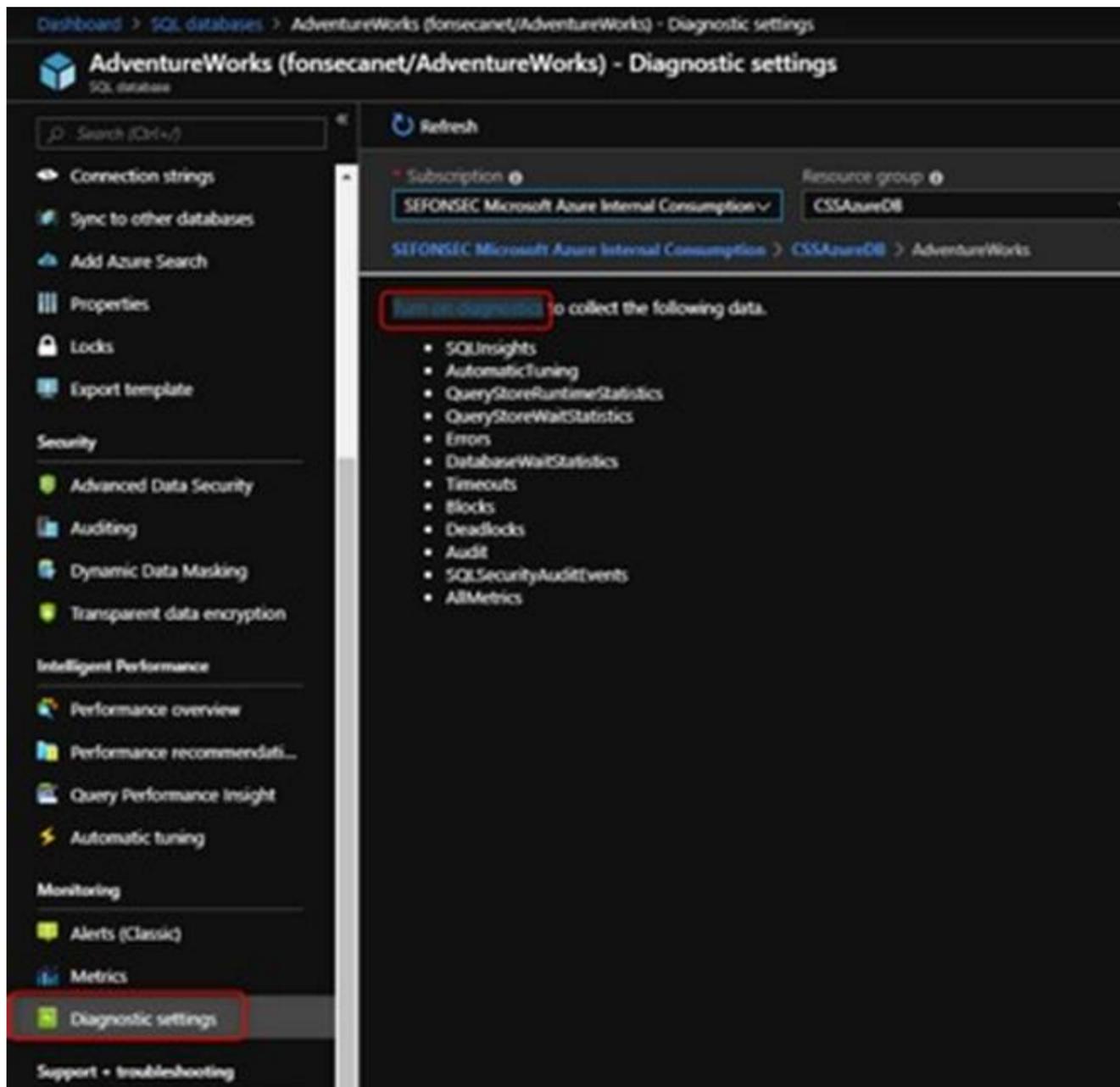
**Answer: A**

#### Explanation:

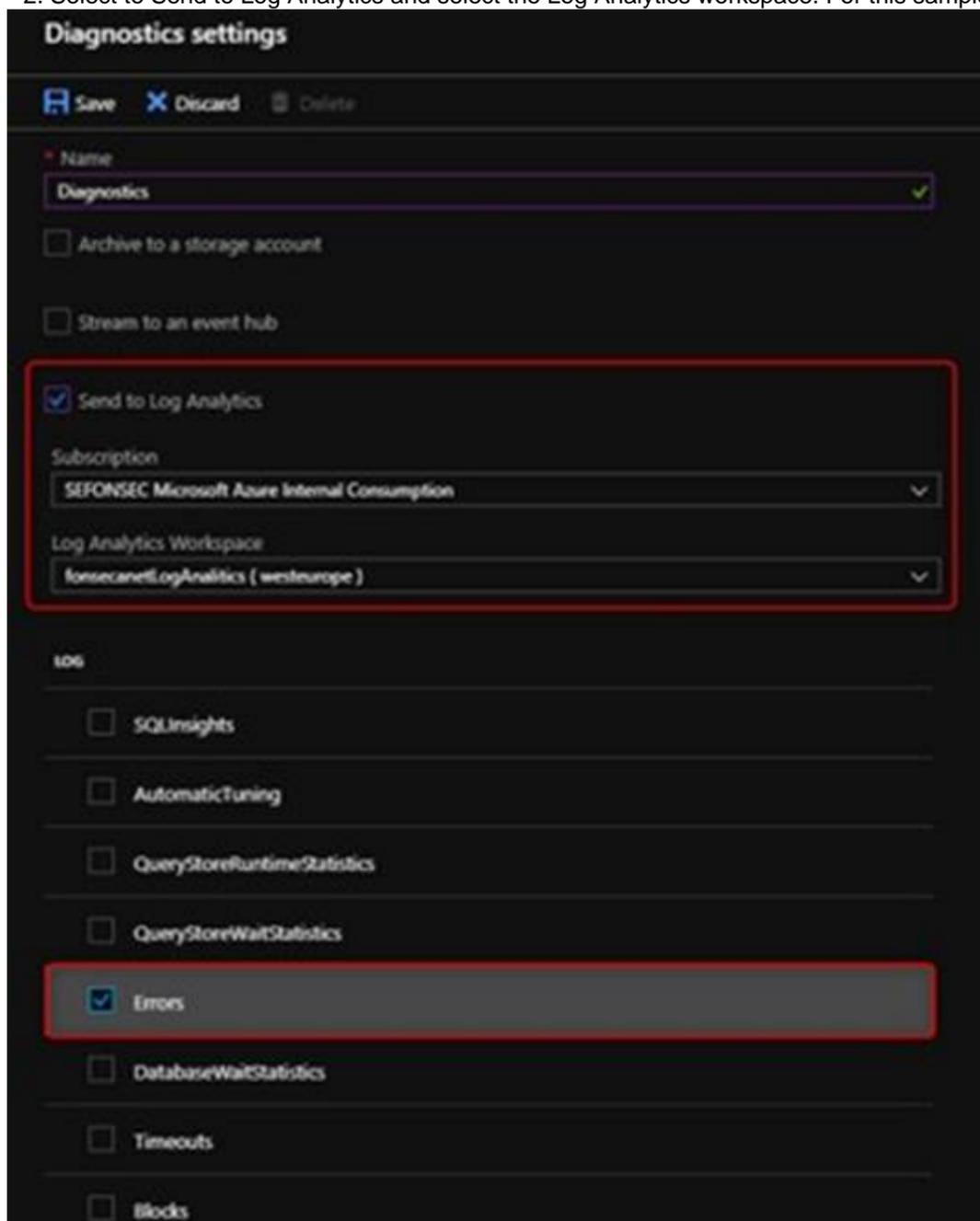
ENABLE DIAGNOSTICS TO LOG ANALYTICS

This configuration is done PER DATABASE

\* 1. Click on Diagnostics Settings and then Turn On Diagnostics



\* 2. Select to Send to Log Analytics and select the Log Analytics workspace. For this sample I will selected only Errors



Reference:

<https://techcommunity.microsoft.com/t5/azure-database-support-blog/azure-sql-db-and-log-analytics-better-together-part-1/ba-p/794833>

**NEW QUESTION 67**

- (Topic 4)

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 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 deployments only fail if the approvals take longer than two hours.

You need to ensure that the deployments only fail if the approvals take longer than hours. Solution: From Post-deployment conditions, you modify the Timeout setting for post-

deployment approvals. Does this meet the goal?

- A. Yes
- B. NO

**Answer: B**

**NEW QUESTION 71**

- (Topic 4)

You need to make a custom package available to all the developers. The package must be managed centrally, and the latest version must be available for consumption in Visual Studio automatically.

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 package URL to the Environment settings in Visual Studio.
- B. Create a Get repository in Azure Repos.
- C. Add the package URL to the Get Package Manager settings in Visual Studio.
- D. Upload a package to a Get repository.
- E. Create a new feed in Azure Artifacts.
- F. Publish the package to a feed.

**Answer: ABE**

**NEW QUESTION 73**

- (Topic 4)

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 Manager templates.

**Answer: B**

**Explanation:**

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/azurerem.keyvault/set-azurekeyvaultsecret>

**NEW QUESTION 76**

DRAG DROP - (Topic 4)

You have an Azure subscription that contains a resource group named RG1. RG1 contains the following resources:

- Four Azure virtual machines that run Windows Server and have Internet Information Services (IIS) installed
- SQL Server on an Azure virtual machine
- An Azure Load Balancer

You need to deploy an application to the virtual machines in RG1 by using Azure Pipelines. Which four 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.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Step 1: Create an agent pool

Azure Pipelines provides a pre-defined agent pool named Azure Pipelines with Microsoft-hosted agents.

Step 2: Create a deployment group

Deployment groups make it easy to define logical groups of target machines for deployment, and install the required agent on each machine.

Step 3: Execute the Azure Pipelines Agent extension to the virtual machines Install the Azure Pipelines Agent Azure VM extension

Step 4: Add and configure a deployment group job for the pipeline

Tasks that you define in a deployment group job run on some or all of the target servers, depending on the arguments you specify for the tasks and the job itself.

#### NEW QUESTION 81

- (Topic 4)

You plan to onboard 10 new developers.

You need to recommend a development environment that meets the following requirements:

? Integrates with GitHub

? Provides integrated debugging tools

? Supports remote workers and hot-desking environments

? Supports developers who use browsers, tablets, and Chromebooks

What should you recommend?

A. VS Code

B. Xamarin Studio

C. Mono Develop

D. Github/Visual Studio Code spaces

**Answer: D**

#### Explanation:

Visual Studio Code spaces is built to accommodate the widest variety of projects or tasks, including GitHub and integrating debugging.

Visual Studio Code spaces conceptually and technically extends the Visual Studio Code Remote Development extensions.

In addition to "backend" environments, Visual Studio Code spaces supports these "frontend" editors:

? Visual Studio Code

? Visual Studio Code-based editor in the browser

Reference:

<https://docs.microsoft.com/sv-se/visualstudio/codespaces/overview/what-is-vsonline>

#### NEW QUESTION 85

- (Topic 4)

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.

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 Pre-deployment conditions settings of the release pipeline, you select After stage.

Does this meet the goal?

A. Yes

B. No

**Answer: B**

#### Explanation:

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

? Select the Triggers tab.

? Enable Continuous integration.

References:

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

#### NEW QUESTION 90

- (Topic 4)

You have a project in Azure DevOps that has a release pipeline.

You need to integrate work item tracking and an Agile project management system to meet the following requirements:

• Ensure that developers can track whether their commits are deployed to production.

• Report the deployment status.

• Minimize integration effort. Which system should you use?

A. Trello

B. Jira

C. Basecamp

D. Asana

**Answer: B**

#### Explanation:

Jira Software is a development tool used by agile teams to plan, track, and manage software releases. Using Azure Pipelines, teams can configure CI/CD pipelines for applications of any language, deploying to any platform or any cloud.

Note: Microsoft and Atlassian have partnered together to build an integration between Azure Pipelines and Jira Software.

This integration connects the two products, providing full tracking of how and when the value envisioned with an issue is delivered to end users. This enables teams to setup a tight development cycle from issue creation through release. Key development milestones like builds and deployments associated to a Jira issue can then be tracked from within Jira Software.

Reference:

<https://devblogs.microsoft.com/devops/azure-pipelines-integration-with-jira-software/>

#### NEW QUESTION 91

- (Topic 4)

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 need to recommend an integration strategy for the build process of a Java application. The solution must meet the following requirements:

? The builds must access an on-premises dependency management system.

? The build outputs must be stored as Server artifacts in Azure DevOps.

? The source code must be stored in a Git repository in Azure DevOps.

Solution: Install and configure a self-hosted build agent on an on-premises machine. Configure the build pipeline to use the Default agent pool. Include the Java Tool Installer task in the build pipeline.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

Instead use Octopus Tentacle.

References:

<https://explore.emtecinc.com/blog/octopus-for-automated-deployment-in-devops-models>

**NEW QUESTION 96**

- (Topic 4)

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:

? Licensing violations

? Prohibited libraries

Solution: You implement continuous deployment. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead 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 denitive database of open source repositories.

Reference: <https://azuredevopslabs.com/labs/vstsextend/whitesource/>

**NEW QUESTION 101**

DRAG DROP - (Topic 4)

You are creating a NuGet package.

You plan to distribute the package to your development team privately.

You need to share the package and test that the package can be consumed.

Which four 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**

- Create a new Azure Artifacts feed.
- Configure a self-hosted agent.
- Publish a package.
- Install a package.
- Connect to an Azure Artifacts feed.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Configure a self-hosted agent.

The build will run on a Microsoft hosted agent.

Step 2: Create a new Azure Artifacts feed

Microsoft offers an official extension for publishing and managing your private NuGet feeds.

Step 3: Publish the package.

Publish, pack and push the built project to your NuGet feed.

Step 4: Connect to an Azure Artifacts feed.

With the package now available, you can point Visual Studio to the feed, and download the newly published package

References:

<https://medium.com/@dan.cokely/creating-nuget-packages-in-azure-devops-with-azure-pipelines-and-yaml-d6fa30f0f15e>

#### NEW QUESTION 105

- (Topic 4)

You have an Azure DevOps project named Project1 and an Azure subscription named Sub1. Sub1 contains an Azure SQL database named DB1.

You need to create a release pipeline that uses the Azure SQL Database Deployment task to update DB1.

Which artifact should you deploy?

- A. a BACPAC
- B. a DACPAC
- C. an LDF file
- D. an MDF file

**Answer: B**

#### Explanation:

Use Azure SQL Database Deployment task in a build or release pipeline to deploy to Azure SQL DB using a DACPAC or run scripts using SQLCMD.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/deploy/sql-azure-dacpac-deployment>

#### NEW QUESTION 106

- (Topic 4)

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:

? Licensing violations

? Prohibited libraries

Solution: You implement automated security testing.

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

#### Explanation:

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 denitive database of open source repositories.

Reference: <https://azuredevopslabs.com/labs/vstsextend/whitesource/>

#### NEW QUESTION 111

- (Topic 4)

You have an Azure DevOps project that contains a build pipeline. The build pipeline uses approximately 50 open source libraries.

You need to ensure that all the open source libraries comply with your company's licensing standards.

Which service should you use?

- A. Ansible
- B. Maven
- C. WhiteSource Bolt
- D. Helm

**Answer: C**

#### Explanation:

WhiteSource provides WhiteSource Bolt, a lightweight open source security and management solution developed specifically for integration with Azure DevOps and Azure DevOps Server.

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 denitive database of open source repositories.

Note: Blackduck would also be a good answer, but it is not an option here. Reference:

<https://www.azuredevopslabs.com/labs/vstsextend/whitesource/>

#### NEW QUESTION 115

DRAG DROP - (Topic 4)

You have a private project in Azure DevOps and two users named User1 and User2. You need to add User1 and User2 to groups to meet the following requirements:

? User1 must be able to create a code wiki.

? User2 must be able to edit wiki pages.

? The solution must use the principle of least privilege.

To which group should you add each user? To answer, drag the appropriate groups to the correct users. Each group 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.

**Groups**

- Build Administrators
- Contributors
- Project Administrators
- Project Valid Users
- Stakeholders

**Answer Area**

User1:

User2:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

User1: Project Administrators

You must have the permission Create Repository to publish code as wiki. By default, this permission is set for members of the Project Administrators group.

User2: Contributors

Anyone who is a member of the Contributors security group can add or edit wiki pages. Anyone with access to the team project, including stakeholders, can view the wiki.

**NEW QUESTION 119**

HOTSPOT - (Topic 4)

You have an Azure subscription that contains two resource groups named Contoso RG and Contoso Dev, an Azure data factory named Contoso Data Factory, and a release pipeline in Azure Pipelines named Pipeline1.

You plan to deploy Contoso Data Factory to ContosoRG by using Pipeline1.

You add the Azure Resource Manager (ARM) template deployment task shown the following exhibit.

ARM template deployment View YAML Remove

Task version: 3\*

Display name\*: Deploy the Contoso Data Factory

Azure Details ^

Deployment scope\*: Resource Group

Azure Resource Manager connection\*: Microsoft Azure Sponsorship Manage

Subscription\*: Microsoft Azure Sponsorship

Action\*: Create or update resource group

Resource group\*: ContosoRG

Location\*: East US

Template ^

Template location\*: Linked artifact

Template\*: \$(System.DefaultWorkingDirectory)/\_Contoso-DataFactory-CI

Template parameters:

Override template parameters:

Deployment mode\*: Complete

The [answer choice] setting must be changed to prevent the modification of existing databases and web apps in ContosoRG.

- Action
- Template location
- Deployment mode
- Deployment scope

Pipeline1 will retrieve the ARM template from the [answer choice].

- output of the continuous integration build
- location specified in the Linked artifact variable
- default branch of the Git repository of Contoso Data Factory

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Deployment Mode  
 Location specified in the Linked artifact variable

**NEW QUESTION 122**

DRAG DROP - (Topic 4)

Your company has a project in Azure DevOps.

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

You need to recommend a solution for accessing the secrets stored in the key vault during deployments. The solution must use the principle of least privilege. What should you include in the recommendation? To answer, drag the appropriate configurations to the correct targets. Each configuration 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.

**Configurations**

**Answer Area**

A Key Vault access policy	Enable key vaults for template deployment by using:	
A Key Vault advanced access policy	Restrict access to the secrets in Key Vault by using:	
RBAC		

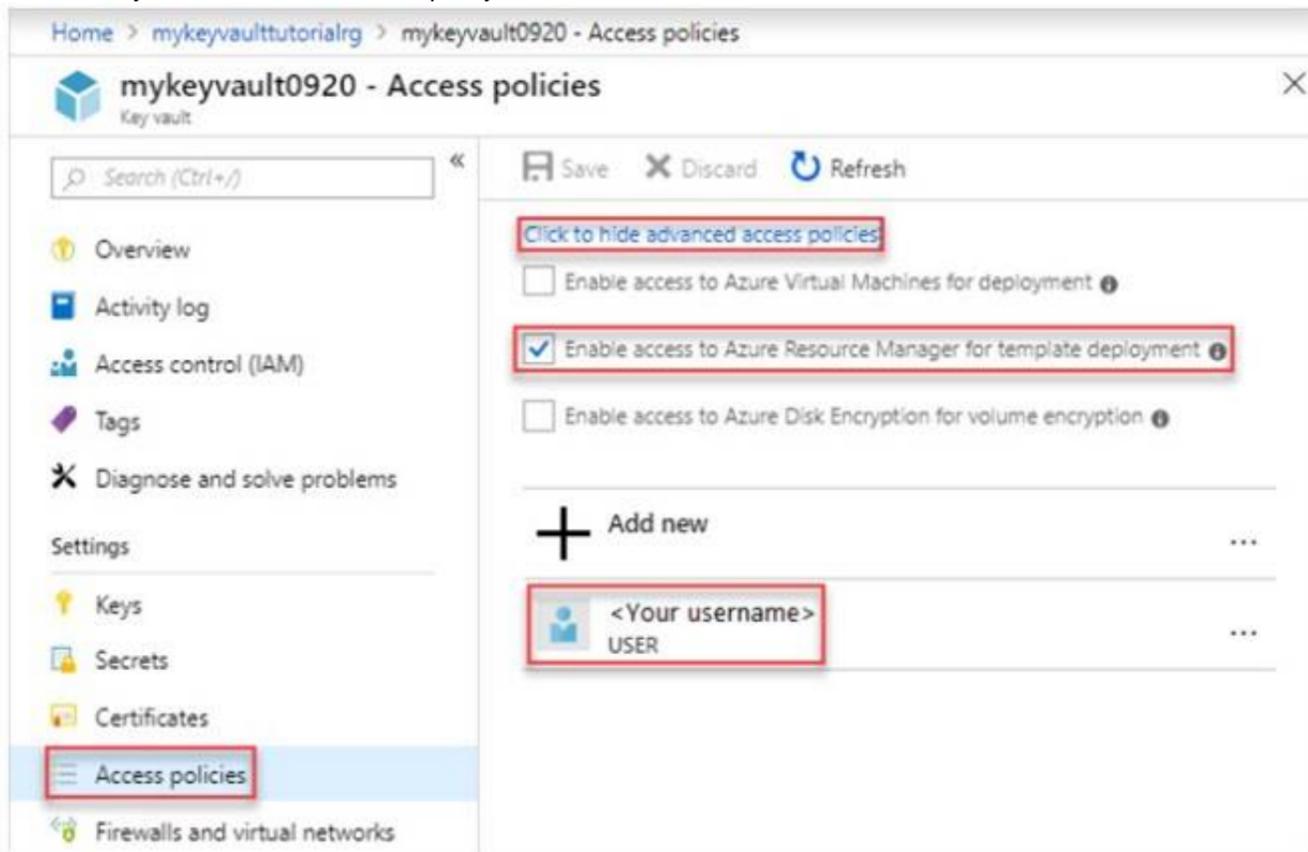
- A. Mastered

B. Not Mastered

Answer: A

**Explanation:**

Box 1: A key Vault advanced access policy



Box 2: RBAC

Management plane access control uses RBAC.

The management plane consists of operations that affect the key vault itself, such as:

- ? Creating or deleting a key vault.
- ? Getting a list of vaults in a subscription.
- ? Retrieving Key Vault properties (such as SKU and tags).
- ? Setting Key Vault access policies that control user and application access to keys and secrets.

References: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-tutorial-use-key-vault>

**NEW QUESTION 127**

- (Topic 4)

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:

- ? Licensing violations
- ? Prohibited libraries

Solution: You implement pre-deployment gates. Does this meet the goal?

- A. Yes
- B. No

Answer: B

**Explanation:**

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 denitive database of open source repositories.

Reference: <https://azuredevopslabs.com/labs/vstsextend/whitesource/>

**NEW QUESTION 129**

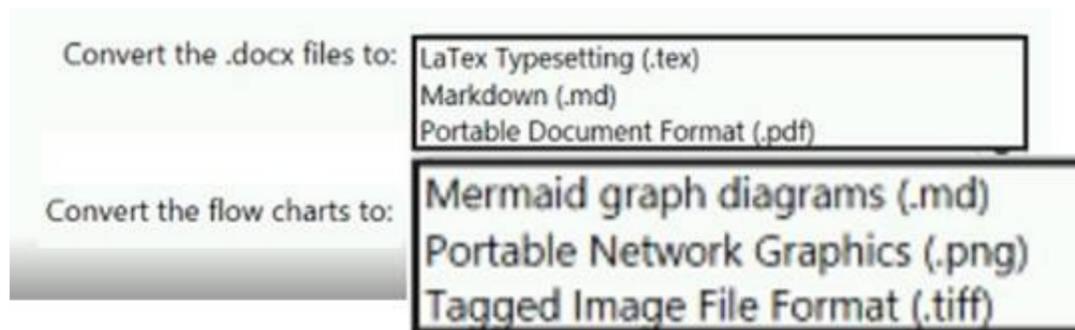
HOTSPOT - (Topic 4)

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:

- Store documents as plain text.
- Minimize the number of files that must be maintained.
- Simplify the modification, merging, and reuse of flow charts.
- 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.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Markdown (.md)

Github understands several text formats, including .txt and .md. .md stands for a file written in Markdown.

Box 2: Mermaid diagrams

Mermaid lets you create diagrams and visualizations using text and code.

It is a Javascript based diagramming and charting tool that renders Markdown-inspired text definitions to create and modify diagrams dynamically.

**NEW QUESTION 130**

- (Topic 4)

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

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 the meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

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

? Select the Triggers tab.

? Enable Continuous integration.

References:

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

**NEW QUESTION 132**

HOTSPOT - (Topic 4)

You have a project Azure DevOps.

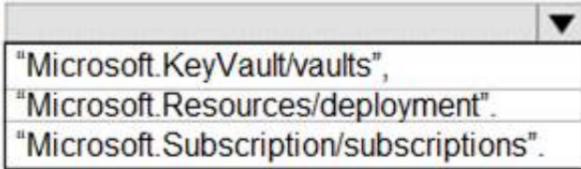
You plan to create a build pipeline that will deploy resources by using Azure Resource Manager templates. The templates will reference secrets stored in Azure Key Vault.

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": 
  "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",
    "properties": {
      "mode": "Incremental",
      "deployment": {
        "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')]"
            }
          }
        }
      }
    }
  }
],

```

**NEW QUESTION 134**

DRAG DROP - (Topic 4)

You have an Azure Key Vault that contains an encryption key named key1. You plan to create a Log Analytics workspace that will store logging data. You need to encrypt the workspace by using key1.

Which four 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
Register the Azure subscription to allow cluster creation.	
Enable soft delete for the key vault.	
Create a Log Analytics cluster.	
Grant permissions to the key vault.	
Link the workspace.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions	Answer Area
Register the Azure subscription to allow cluster creation.	
Enable soft delete for the key vault.	
Create a Log Analytics cluster.	
Grant permissions to the key vault.	
Link the workspace.	

**NEW QUESTION 138**

DRAG DROP - (Topic 4)

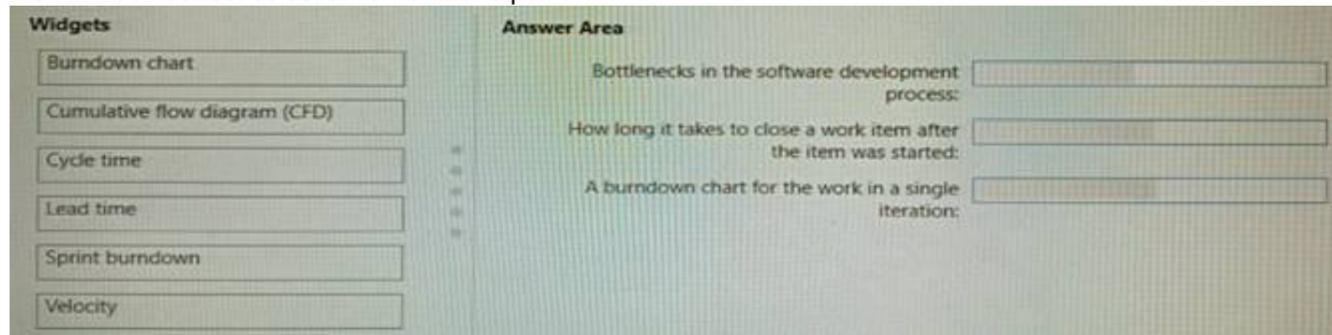
You have a project in Azure DevOps.

You need to configure a dashboard. The solution must include the following metrics:

- Bottlenecks in the software development process
- A burndown chart for the work in a single iteration
- How long it takes to close a work item after the item was started

Which type of widget should you use for each metric? To answer, drag the appropriate widget types to the correct metrics. Each widget type 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.

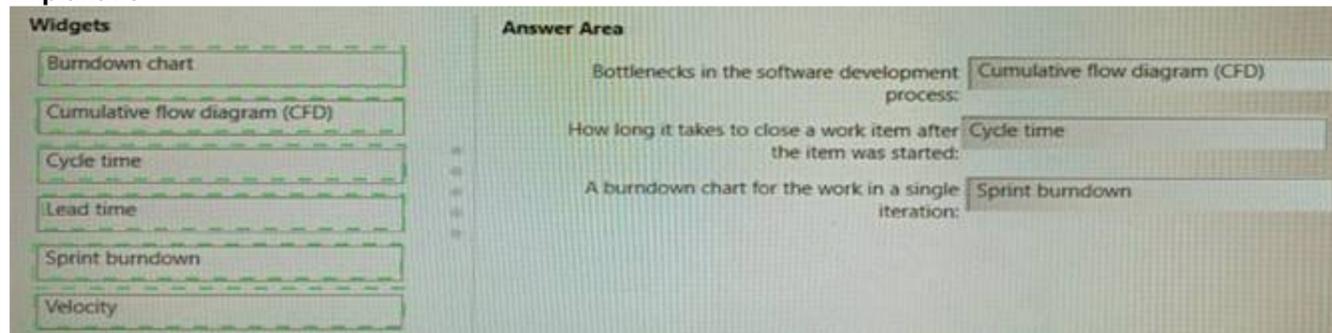
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



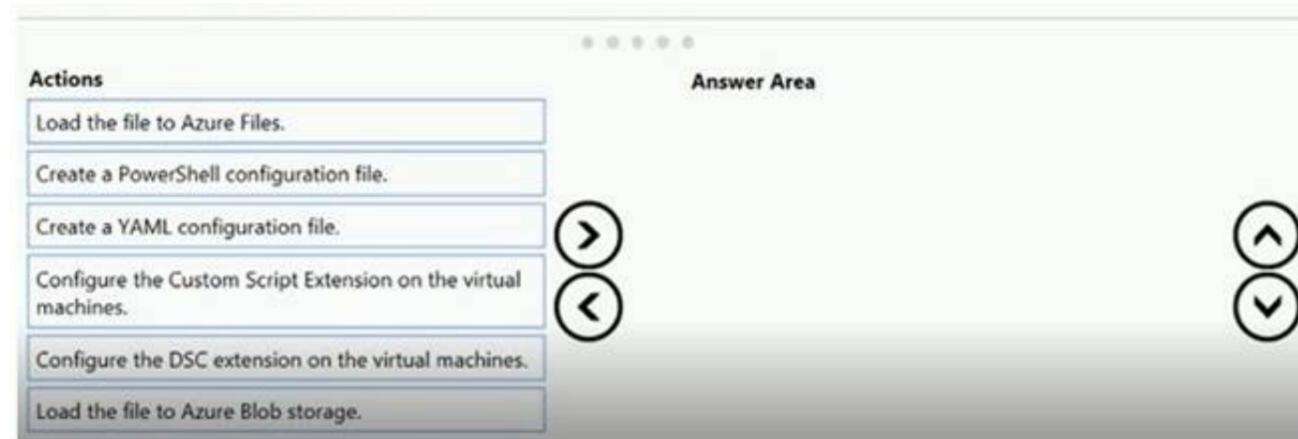
NEW QUESTION 142

DRAG DROP - (Topic 4)

You are deploying a new application that uses Azure virtual machines.

You plan to use the Desired State Configuration (DSC) extension on the virtual machines. You need to ensure that the virtual machines always have the same Windows features installed.

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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create a PowerShell configuration file

You create a simple PowerShell DSC configuration file.

Step 2: Load the file to Azure Blob storage

Package and publish the module to a publically accessible blob container URL

Step 3: Configure the Custom Script Extension on the virtual machines.

The Custom Script Extension downloads and executes scripts on Azure virtual machines.

NEW QUESTION 147

DRAG DROP - (Topic 4)

You are configuring the settings of a new Git repository in Azure Repos.

You need to ensure that pull requests in a branch meet the following criteria before they

are merged:

? Committed code must compile successfully.

? Pull requests must have a Quality Gate status of Passed in SonarCloud.

Which policy type should you configure for each requirement? To answer, drag the appropriate policy types to the correct requirements. Each policy type 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.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: A check-in policy

Administrators of Team Foundation version control can add check-in policy requirements. These check-in policies require the user to take actions when they conduct a check-in to source control.

By default, the following check-in policy types are available:

- ? Builds Requires that the last build was successful before a check-in.
- ? Code Analysis Requires that code analysis is run before check-in.
- ? Work Items Requires that one or more work items be associated with the check-in.

Box 2: Build policy

**NEW QUESTION 152**

- (Topic 4)

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 denitive database of open source repositories.

Azure DevOps integration with WhiteSource Bolt will enable you to:

- ? Detect and remedy vulnerable open source components.
- ? Generate comprehensive open source inventory reports per project or build.
- ? Enforce open source license compliance, including dependencies' licenses.
- ? Identify outdated open source libraries with recommendations to update.

References: <https://www.azuredevopslabs.com/labs/vstsextend/WhiteSource/>

**NEW QUESTION 155**

- (Topic 4)

You manage source code control and versioning by using GitHub.

You need to ensure that a PowerShell script is executed automatically before rebase operations are performed.

What should you use?

- A. a package
- B. GitHub Copilot
- C. a webbook
- D. a gist

**Answer:** C

**NEW QUESTION 158**

- (Topic 4)

You have a Microsoft ASP.NET Core web app in Azure that is accessed worldwide.

You need to run a URL ping test once every five minutes and create an alert when the web app is unavailable from specific Azure regions. The solution must minimize development time.

What should you do?

- A. Create an Azure Application Insights availability test and alert.
- B. Create an Azure Service Health alert for the specific regions.
- C. Create an Azure Monitor Availability metric and alert

D. Write an Azure function and deploy the function to the specific regions.

**Answer:** A

**Explanation:**

There are three types of Application Insights availability tests:

? URL ping test: a simple test that you can create in the Azure portal.

? Multi-step web test

? Custom Track Availability Tests

Note: After you've deployed your web app/website, you can set up recurring tests to monitor availability and responsiveness. Azure Application Insights sends web requests to your application at regular intervals from points around the world. It can alert you if your application isn't responding, or if it responds too slowly.

You can set up availability tests for any HTTP or HTTPS endpoint that is accessible from the public internet. You don't have to make any changes to the website you're testing. In fact, it doesn't even have to be a site you own. You can test the availability of a REST API that your service depends on.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/monitor-web-app-availability#create-a-url-ping-test>

**NEW QUESTION 160**

- (Topic 4)

Your company hosts a web application in Azure. The company uses Azure Pipelines for the build and release management of the application.

Stakeholders report that the past few releases have negatively affected system performance.

You configure alerts in Azure Monitor.

You need to ensure that new releases are only deployed to production if the releases meet defined performance baseline criteria in the staging environment first.

What should you use to prevent the deployment of releases that fail to meet the performance baseline?

- A. a trigger
- B. an Azure function
- C. a gate
- D. an Azure Scheduler job

**Answer:** C

**Explanation:**

<https://docs.microsoft.com/en-us/azure/azure-monitor/continuous-monitoring>

<https://docs.microsoft.com/en-us/azure/devops/pipelines/release/approvals/gates?view=azure-devops>

**NEW QUESTION 164**

- (Topic 4)

Your company uses Azure Artifacts for package management.

You need to configure an upstream source in Azure Artifacts for Python packages. Which repository type should you use as an upstream source?

- A. PyPI
- B. npmjs.org
- C. Maven Central
- D. third-party trusted Python

**Answer:** A

**Explanation:**

Get started with Python packages in Azure Artifacts Create a feed

? Select Artifacts (in the left navigation of your Azure DevOps project).

? On the Artifacts page, select Create Feed.

? In the Create new feed dialog box:

? In the Name field, give the feed a name.

PyPI is the default repository name for twine, which is a tool for publishing Python packages. Reference:

<https://docs.microsoft.com/en-us/azure/devops/artifacts/quickstarts/python-packages>

**NEW QUESTION 169**

- (Topic 4)

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: Add a code coverage step to the build pipelines.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead implement Continuous Assurance for the project.

Reference:

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

**NEW QUESTION 173**

HOTSPOT - (Topic 4)

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:

? Ensure that the secrets are retrieved by Azure DevOps.

? 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.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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.

**NEW QUESTION 178**

- (Topic 4)

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

**Explanation:**

References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/process/stages?tabs=classic&view=azure-devops#queuing-policies>

**NEW QUESTION 180**

- (Topic 4)

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

- ? Two resource groups
- ? Four Azure virtual machines in one resource group
- ? Two 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:**

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

**NEW QUESTION 182**

- (Topic 4)

You have an Azure Automation account that contains a webbook. The webbook is used to configure the application infrastructure of an Azure subscription.

You have a project in Azure DevOps named Project1. Project1 contains a repository that stores code for the webbook.

You need to ensure that every committed change to the code will update automatically and publish the webbook to Azure Automation.

What should you configure?

- A. the Connections settings for the Automation account
- B. the Service hooks settings for Project1
- C. the Source control settings for the Automation account

D. the Service connections settings for Project1

Answer: C

**NEW QUESTION 186**

- (Topic 4)

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:

- ? ServiceNow
- ? System Center Service Manager
- ? Provance
- ? Cherwell

With ITSMC, you can

- ? Create work items in ITSM tool, based on your Azure alerts (metric alerts, Activity Log alerts and Log Analytics alerts).
- ? Optionally, 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/itsmc-overview>

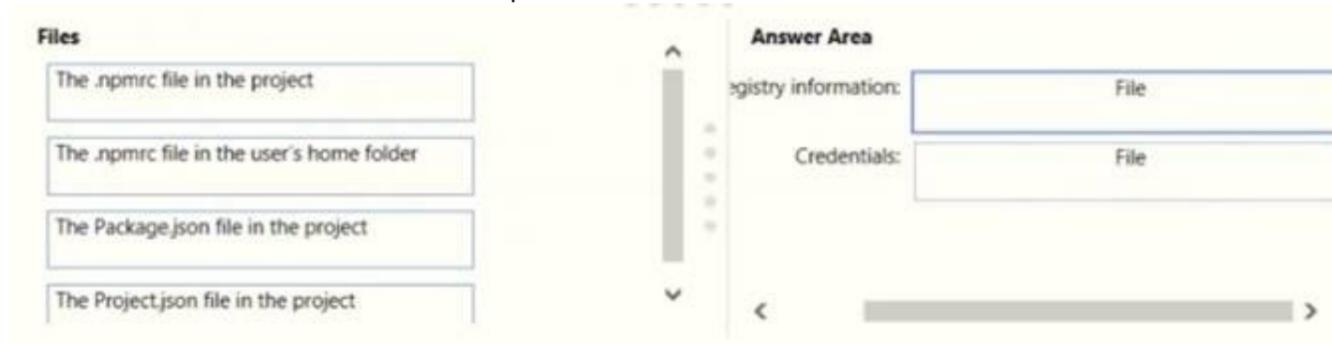
**NEW QUESTION 187**

DRAG DROP - (Topic 4)

You are implementing a package management solution for a Node.js application by using Azure Artifacts.

You need to configure the development environment to connect to the package repository. The solution must minimize the likelihood that credentials will be leaked. Which file should you use to configure each connection? To answer, drag the appropriate files to the correct connections. Each file 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.



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

All Azure Artifacts feeds require authentication, so you'll need to store credentials for the feed before you can install or publish packages. npm uses .npmrc configuration files to store feed URLs and credentials. Azure DevOps Services recommends using two .npmrc files.

Feed registry information: The .npmrc file in the project

One .npmrc should live at the root of your git repo adjacent to your project's package.json. It should contain a "registry" line for your feed and it should not contain credentials since it will be checked into git.

Credentials: The .npmrc file in the user's home folder

On your development machine, you will also have a .npmrc in \$home for Linux or Mac systems or \$env.HOME for win systems. This .npmrc should contain credentials for all of the registries that you need to connect to. The NPM client will look at your project's .npmrc, discover the registry, and fetch matching credentials from \$home/.npmrc or \$env.HOME/.npmrc.

References:

<https://docs.microsoft.com/en-us/azure/devops/artifacts/npm/npmrc?view=azure-devops&tabs=windows>

**NEW QUESTION 189**

SIMULATION - (Topic 4)

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.

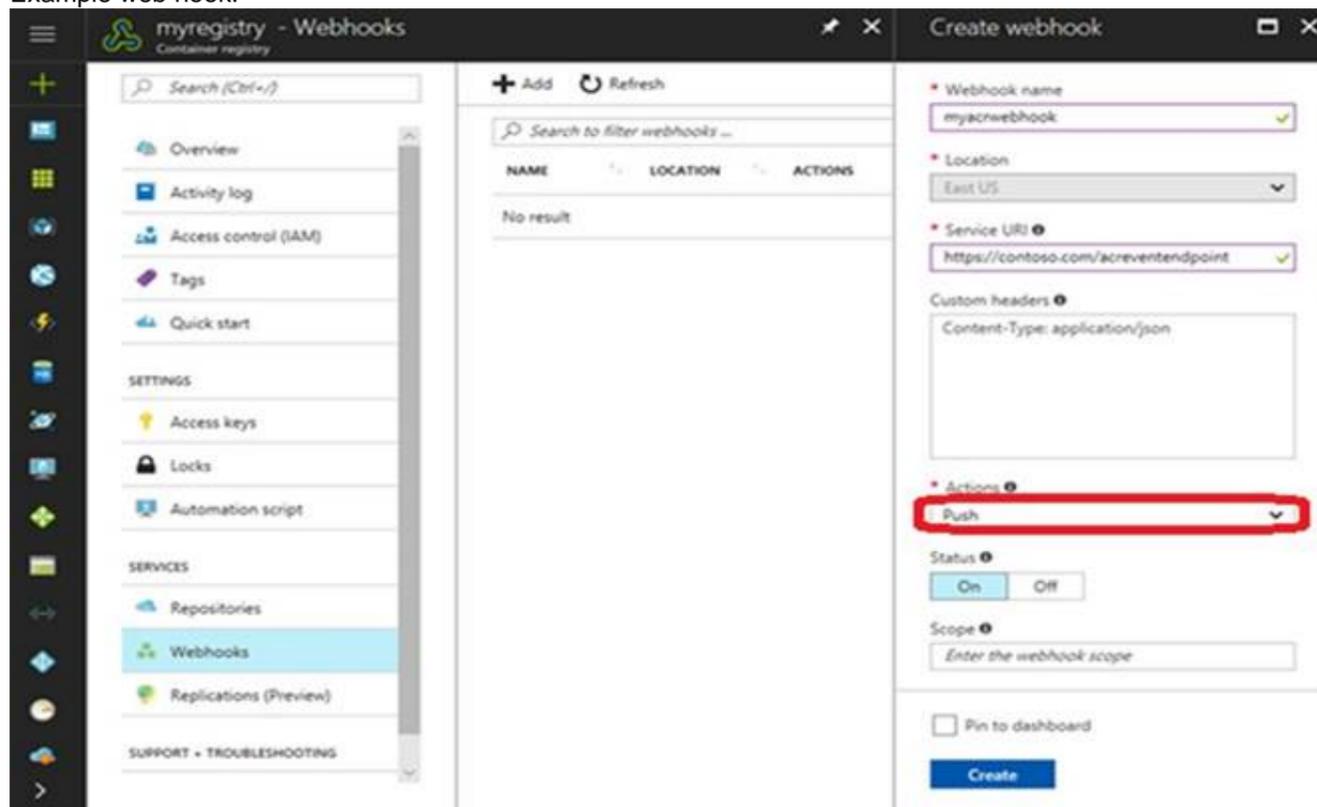
To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

- ? Sign in to the Azure portal.
  - ? Navigate to the container registry az40010480345acr1.
  - ? Under Services, select Webhooks.
  - ? Select the existing webhook <https://contoso.com/statushook>, and double-click on it to get its properties.
  - ? For Trigger actions select image push
- Example web hook:



**NEW QUESTION 193**

- (Topic 4)

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. Application Insights Connector
- B. Automation & Control
- C. IT Service Management Connector (ITSM)
- D. Insight & Analytics

**Answer: C**

**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: ServiceNow, System Center Service Manager, Provance, Cherwell. With ITSMC, you can create work items in ITSM tool, based on your Azure alerts (metric alerts, Activity Log alerts and Log Analytics alerts). Optionally, you can sync your incident and change request data from your ITSM tool to an Azure Log Analytics workspace. Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/itsmc-overview>

**NEW QUESTION 194**

FILL IN THE BLANK - (Topic 4)

You have a GitHub repository that contains the source code for an app. You need to identify all the changes made between versions 1.4.16 and 1.6.12 of the source code. How should you complete the Get command? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Git | helper-script > changes.txt

**Answer Area**

git [ ] | helper-script > changes.txt

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Answer below

get diff v1.4.16 v1.6.12 | helper-script > changes.txt

This command will compare the changes made between versions 1.4.16 and 1.6.12 of the source code in your GitHub repository, pipe the output through the helper-script and save the result to a file called "changes.txt". Please note that, this command assumes that you have a helper-script that can handle get diff output as an input and processes it further. It is not a default get command.

**NEW QUESTION 195**

DRAG DROP - (Topic 4)

You have an Azure Pipeline.

You need to store configuration values as variables.

At which four scopes can the variables be defined, and what is the precedence of the variables from the highest precedence to lowest precedence? To answer, move the appropriate scope from the list of scopes to the answer area and arrange them in the correct order.

The interface shows a list of scopes on the left: task, job, stage, pipeline root, and pipeline settings UI. To the right is an empty 'Answer Area' with up and down arrow buttons.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

The explanation shows the 'Scopes' list on the left and the 'Answer Area' on the right. The answer area contains the following scopes in order from top to bottom: job, stage, pipeline root, and pipeline settings UI. This order represents the highest to lowest precedence.

**NEW QUESTION 199**

DRAG DROP - (Topic 4)

You have a large repository named Repo1 that contains a directory named directory 1. You plan to modify files in directory1.

You need to create a clone of Repo1. The solution must minimize the amount of transferred data.

How should you complete the script? To answer, drag the appropriate values to the correct targets. Each value 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.

The interface shows a list of values on the left: git clone, git fetch, git sparse-checkout, git worktree, scalar clone, and scalar run. The 'Answer Area' contains a script snippet: `cd repos`, followed by a blank line, then `https://dev.azure.com/organisation/_git/Repo1`, another blank line, then `set directory1`, and finally `...`.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

The explanation shows the 'Values' list on the left and the 'Answer Area' on the right. The script in the answer area now contains: `git clone https://dev.azure.com/organisation/_git/Repo1` and `git sparse-checkout set directory1`. This configuration minimizes data transfer by cloning only the needed directory.

**NEW QUESTION 202**

SIMULATION - (Topic 4)

Your company plans to implement a new compliance strategy that will require all Azure web apps to be backed up every five hours.

You need to back up an Azure web app named az400-11566895-main every five hours to an Azure Storage account in your resource group.

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

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

With the storage account ready, you can configure backs up in the web app or App Service.

? Open the App Service az400-11566895-main, which you want to protect, in the Azure Portal and browse to Settings > Backups. Click Configure and a Backup Configuration blade should appear.

? Select the storage account.

? Click + to create a private container. You could name this container after the web app or App Service.

? Select the container.

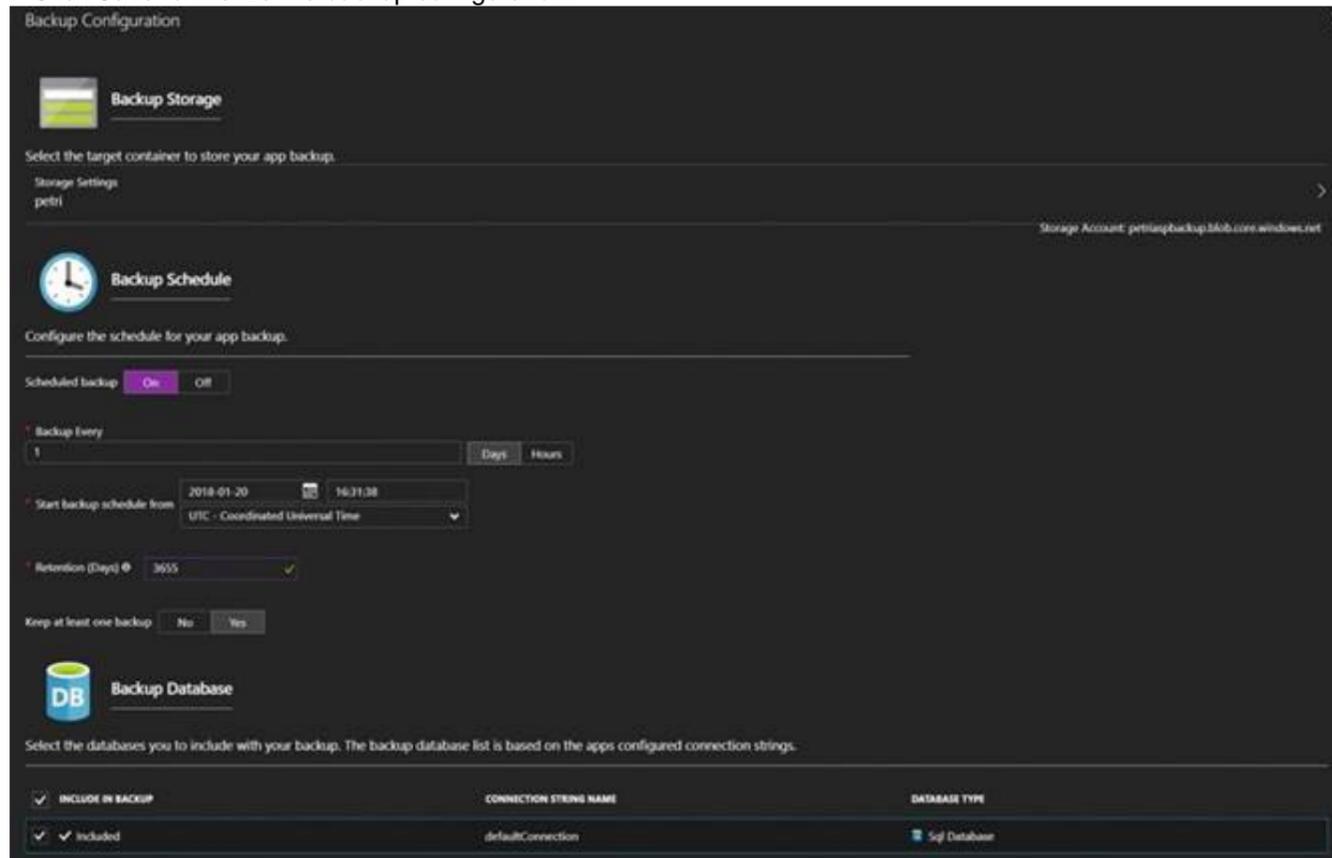
? If you want to schedule backups, then set Scheduled Backup to On and configure a schedule: every five hours

? Select your retention. Note that 0 means never delete backups.

? Decide if at least one backup should always be retained.

? Choose if any connected databases should be included in the web app backup.

? Click Save to finalize the backup configuration.



**NEW QUESTION 203**

- (Topic 4)

You have an Azure DevOps project named Project1 and an Azure subscription named Sub1. Sub1 contains an Azure virtual machine scale set named VMSS1. VMSS1 hosts a web application named

WebApp1. WebApp1 uses state full sessions.

The WebApp1 installation is managed by using the Custom Script extension. The script resides in an Azure Storage account named sa1.

You plan to make a minor change to a UI element of WebApp1 and to gather user feedback about the change.

You need to implement limited user testing for the new version of WebApp1 on VMSS1. Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Modify the load balancer settings of VMSS1.
- B. Redeploy VMSS1.
- C. Upload a custom script file to sa1.
- D. Modify the Custom Script extension settings of VMSS1.
- E. Update the configuration of a virtual machine in VMSS1.

**Answer:** BCD

**NEW QUESTION 207**

DRAG DROP - (Topic 4)

You have an Azure subscription that uses Azure Monitor and contains a Log Analytics workspace.

You have an encryption key.

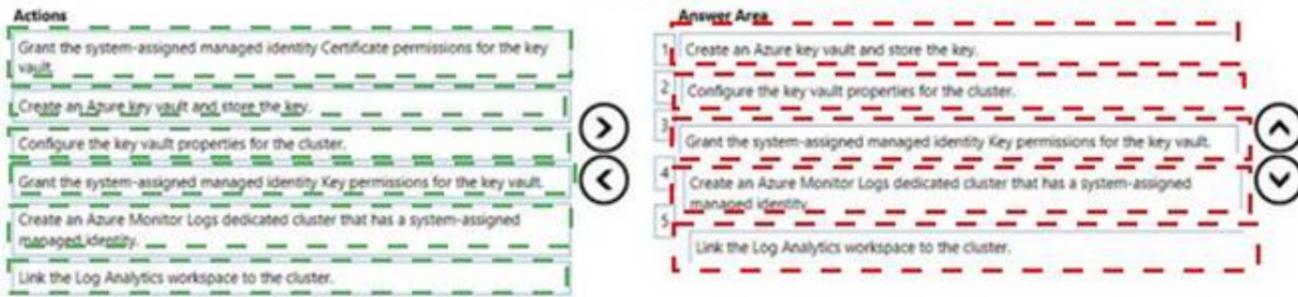
You need to configure Azure Monitor to use the key to encrypt log data

Actions	Answer Area
Grant the system-assigned managed identity Certificate permissions for the key vault.	1
Create an Azure key vault and store the key.	2
Configure the key vault properties for the cluster.	3
Grant the system-assigned managed identity Key permissions for the key vault.	4
Create an Azure Monitor Logs dedicated cluster that has a system-assigned managed identity.	5
Link the Log Analytics workspace to the cluster.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 209**

DRAG DROP - (Topic 4)

You have an Azure Kubernetes Service (AKS) implementation that is RBAC-enabled

You plan to use Azure Container Instances as a hosted development environment to run containers in the AKS implementation.

You need to conjure Azure Container Instances as a hosted environment for running me containers in AKS. Which three actions should you perform m 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 `helm init.`
- Run `az aks install-connector.`
- Create a YAML file.
- Run `az role assignment create`
- Run `kubectl apply.`



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create a YAML file.

If your AKS cluster is RBAC-enabled, you must create a service account and role binding for use with Tiller. To create a service account and role binding, create a file named `rbac- virtual-kubelet.yaml`

Step 2: Run `kubectl apply.`

Apply the service account and binding with `kubectl apply` and specify your `rbac-virtual- kubelet.yaml` file.

Step 3: Run `helm init.`

Configure Helm to use the tiller service account: `helm init --service-account tiller`

You can now continue to installing the Virtual Kubelet into your AKS cluster. References: <https://docs.microsoft.com/en-us/azure/aks/virtual-kubelet>

**NEW QUESTION 211**

- (Topic 4)

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 need to recommend an integration strategy for the build process of a Java application. The solution must meet the following requirements:

- The builds must access an on-premises dependency management system.
- The build outputs must be stored as Server artifacts in Azure DevOps.
- The source code must be stored in a Git repository in Azure DevOps.

Solution: Configure the build pipeline to use a Hosted Ubuntu agent pool. Include the Java Tool Installer task in the build pipeline. Does this meet the goal?

- A. Yes
- B. No

Answer: A

**NEW QUESTION 215**

DRAG DROP - (Topic 4)

You are implementing a new project in Azure DevOps.

You need to assess the performance of the protect. The solution must identify the following metrics:

- How long it takes to complete a work item
- \* The percentage of defects found in production

Which DevOps KPI should you review for each metric? To answer drag the appropriate KPIs to the correct metric. Each KPI may be used once, more than once,

or not at all. You may need to drag the spirit bar between panes or scroll to view content.

NOTE Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**NEW QUESTION 218**

DRAG DROP - (Topic 4)

You have an Azure Repos repository named repo1.

You need to clone repo1. The solution must clone only a directory named src/web.

How should you complete the script? To answer, drag the appropriate values to the correct targets, Each value may be used once, more than once, or not at all.

You may need to drag the spirit bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**NEW QUESTION 220**

SIMULATION - (Topic 4)

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.

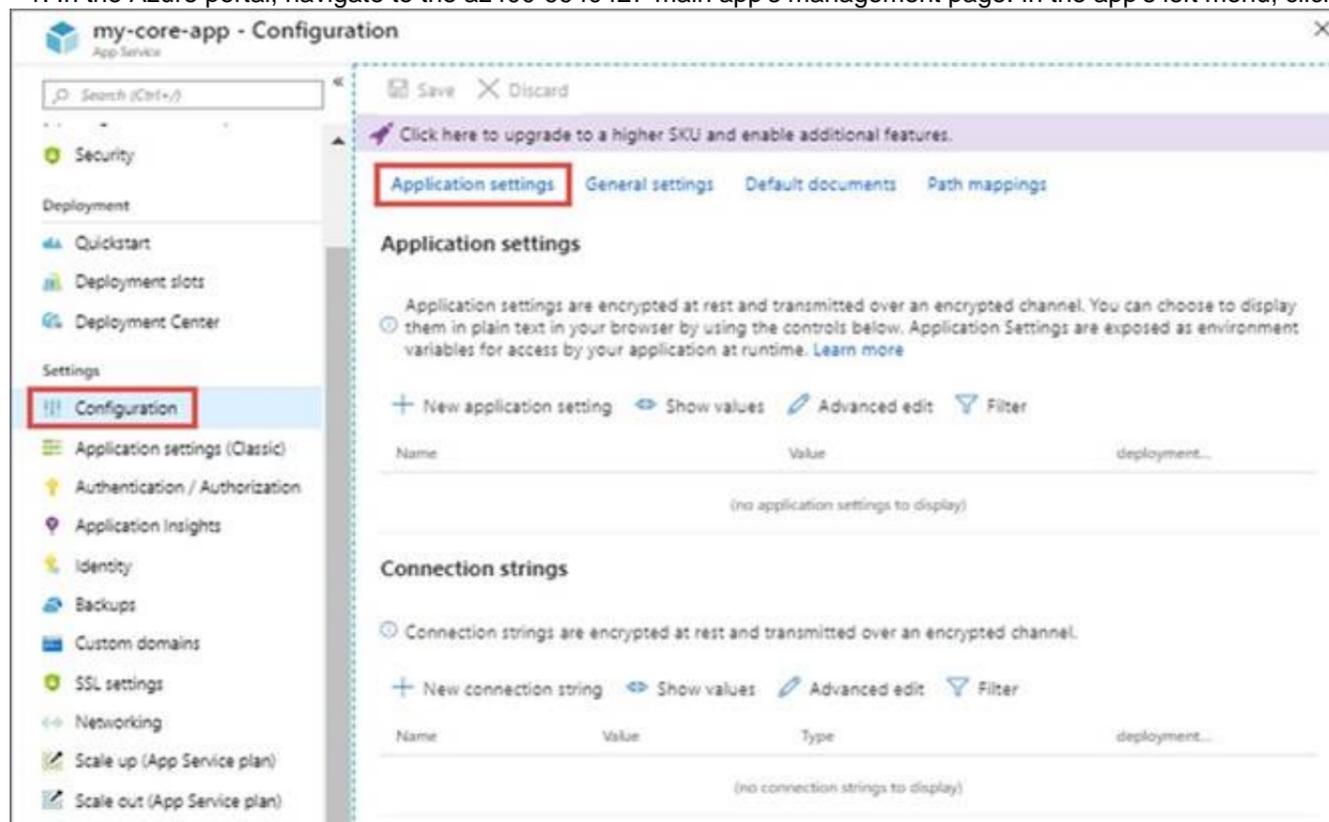
To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

\* 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>

**NEW QUESTION 222**

- (Topic 4)

You plan to create a project in Azure DevOps. Multiple developers will work on the project. The developers will work offline frequently and will require access to the full project history while they are offline.

Which version control solution should you use?

- A. TortoiseSVN
- B. Team Foundation Version Control
- C. Subversion
- D. Git

**Answer: D**

**Explanation:**

Git history: File history is replicated on the client dev machine and can be viewed even when not connected to the server. You can view history in Visual Studio and on the web portal.

Note: Azure Repos supports two types of version control: Git and Team Foundation Version Control (TFVC).

Reference:

<https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/comparison-git-tfvc>

**NEW QUESTION 223**

DRAG DROP - (Topic 4)

Your company has two virtual machines that run Linux in a third-party public cloud.

You plan to use the company's Azure Automation State Configuration implementation to manage the two virtual machines and detect configuration drift.

You need to onboard the Linux virtual machines.

You install PowerShell Desired State Configuration (DSC) on the virtual machines, and then run register.py.

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

**Actions**

- Install Windows Management Framework 5.1 on the virtual machines.
- From the virtual machines, run `setdsclocalconfigurationmanager.py`.
- Create a DSC metaconfiguration.
- Copy the metaconfiguration to the virtual machines.
- Add the virtual machines as DSC nodes in Azure Automation.

→

←

**Answer Area**

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Step 1: Create a DSC metaconfiguration

Load up the DSC Configuration into Azure Automation.

Step 2: Copy the metaconfiguration to the virtual machines. Linking the Node Configuration to the Linux Host

Step 3: Add the virtual machines as DSC nodes in Azure Automation.

go to DSC Nodes, select your node, and then click Assign node configuration. This step assigns the DSC configuration to the Linux machine.

Next up will be to link the node configuration to the host. Go to the host and press the "Assign node..."-button. Next up you can select your node configuration.

**NEW QUESTION 227**

- (Topic 4)

You are developing an open source solution that uses a GitHub repository. You create a new public project in Azure DevOps.

You plan to use Azure Pipelines for continuous build. The solution will use the GitHub

Checks API.

Which authentication type should you use?

- A. a personal access token
- B. SAML
- C. GitHub App
- D. OAuth

**Answer: C**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/devops/pipelines/repos/github?view=azure-devops&tabs=yaml> <https://developer.github.com/v3/checks/>

**NEW QUESTION 231**

- (Topic 4)

You use GitHub for source control and Azure Boards for project management. GitHub and Azure Boards are integrated.

You plan to create a pull request in GitHub.

You need to automatically link the request to an existing Azure Boards work item by using the text of AB#<WORKITEMNUMBER>.

To which two elements can you add the text? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. milestone
- B. comment
- C. title
- D. description
- E. label

**Answer: CD**

**Explanation:**

You can add the text "AB#<WORKITEMNUMBER>" to the title or description of the pull request in GitHub, which will automatically link the request to an existing Azure Boards work item with that number.

Reference:

Azure DevOps Docs: Link a work item to a pull request <https://docs.microsoft.com/en-us/azure/devops/repos/git/pull-requests?view=azure-devops#link-a-work-item-to-a-pull-request>

GitHub Docs: Creating a pull request <https://docs.github.com/en-us/github/collaborating-with-issues-and-pull-requests/creating-a-pull-request>

**NEW QUESTION 234**

HOTSPOT - (Topic 4)

You are configuring a release pipeline in Azure DevOps as shown in the exhibit.



Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

How many stages have triggers set?

0
1
2
3
4
5
6
7

Which component should you modify to enable continuous delivery?

The Development stage
The Internal Review stage
The Production stage
The Web Application artifact

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: 5  
 There are five stages: Development, QA, Pre-production, Load Test and Production. They all have triggers.  
 Box 2: The Internal Review stage  
 References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/release/triggers>

**NEW QUESTION 237**

- (Topic 4)  
 You use Azure Pipelines to build and release application code, The pipelines include validation tests that must be completed successfully before deployment proceeds from the test stage to production.  
 You discover inconsistent test outcomes for the same source code. You need to validate the test logic.  
 What should you do?

- A. Decrease the test pass rate.
- B. Configure a parallel test runner.
- C. Enable flaky test detection.
- D. Install the Analytics extension.

**Answer:** B

**NEW QUESTION 238**

- (Topic 4)  
 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 use Azure Pipelines to build and test a React.js application. You have a pipeline that has a single job.  
 You discover that installing JavaScript packages from 9pm takes approximately five minutes each time you run the pipeline.  
 You need to recommend a solution to reduce the pipeline execution time. Solution: You recommend using pipeline artifacts.  
 Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Pipeline artifacts are a way to persist build outputs, test results, and other files generated during a pipeline run. They allow you to share data between stages, jobs, and pipelines, and to persist data for longer than the lifetime of a pipeline run. While artifacts can be useful for sharing data between pipeline runs and reducing the time required to download dependencies, they are not a solution for reducing the time required to install JavaScript packages from 9pm during a pipeline run. The solution of reducing the pipeline execution time could be achieved by using package caching, which allows you to store and reuse 9pm packages from previous pipeline runs. There are several package caching options available for Azure Pipelines, including the 9pm task, the 9pm cache task, and the 9pm ci task. All of these options allow you to configure caching for your 9pm packages, which can significantly reduce the time required to install packages during subsequent pipeline runs. Another solution could be using a dedicated agent that has those packages already installed, this way the pipeline doesn't have to install them again. You can find more information on package caching by following this link <https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/package/npm-cache?view=azure-devops>

**NEW QUESTION 243**

- (Topic 4)  
 Your company creates a web application.  
 You need to recommend a solution that automatically sends to Microsoft Teams a daily summary of the exceptions that occur in the application.  
 Which two Azure services should you recommend? Each correct answer presents part of the solution.  
 NOTE: Each correct selection is worth one point.

- A. Azure Logic Apps

- B. Azure Pipelines
- C. Microsoft Visual Studio App Center
- D. Azure DevOps Project
- E. Azure Application Insights

**Answer:** AE

**Explanation:**

E: Exceptions in your live web app are reported by Application Insights.

Note: Periodical reports help keep a team informed on how their business critical services are doing. Developers, DevOps/SRE teams, and their managers can be productive with automated reports reliably delivering insights without requiring everyone to sign in the portal. Such reports can also help identify gradual increases in latencies, load or failure rates that may not trigger any alert rules.

A: You can programmatically query Application Insights data to generate custom reports on a schedule. The following options can help you get started quickly:

Automate reports with Microsoft Flow

Automate reports with Logic Apps Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/asp-net-exceptions> <https://docs.microsoft.com/en-us/azure/azure-monitor/app/automate-custom-reports>

**NEW QUESTION 245**

- (Topic 4)

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:**

Views enable you to share subsets of the NuGet, npm, Maven, Python and Universal Packages package-versions in your feed with consumers. A common use for views is to share package versions that have been tested, validated, or deployed but hold back packages still under development and packages that didn't meet a quality bar. <https://docs.microsoft.com/en-us/azure/devops/artifacts/concepts/views?view=azure-devops>

**NEW QUESTION 246**

HOTSPOT - (Topic 4)

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 & 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.

Developers:

Pilot users:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

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 & 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

**NEW QUESTION 248**

DRAG DROP - (Topic 4)

You are creating a container for an ASP.NET Core app.

You need to create a Dockerfile file to build the image. The solution must ensure that the size of the image is minimized.

How should you configure the file? To answer, drag the appropriate values to the correct targets. Each value must 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.

Values	Answer Area
dotnet publish -c Release -o out	FROM <input type="text"/> As build-env
dotnet restore	COPY . /app/
microsoft/dotnet:2.2-aspnetcore-runtime	WORKDIR /app
Microsoft/dotnet:2.2-sdk	RUN <input type="text"/>
	FROM <input type="text"/>
	COPY --from=build-env /app/out /app
	WORKDIR /app
	ENTRYPOINT ["dotnet", "MvcMovie.dll"]

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: microsoft.com/dotnet/sdk:2.3

The first group of lines declares from which base image we will use to build our container on top of. If the local system does not have this image already, then docker will automatically try and fetch it. The mcr.microsoft.com/dotnet/core/sdk:2.1 comes packaged with the .NET core 2.1 SDK installed, so it's up to the task of building ASP .NET core projects targeting version 2.1

Box 2: dotnet restore

The next instruction changes the working directory in our container to be /app, so all commands following this one execute under this context.

COPY \*.csproj ./ RUN dotnet restore

Box 3: microsoft.com/dotnet/2.2-aspnetcore-runtime

When building container images, it's good practice to include only the production payload and its dependencies in the container image. We don't want the .NET core SDK included in our final image because we only need the .NET core runtime, so the dockerfile is written to use a temporary container that is packaged with the SDK called build-env to build the app.

**NEW QUESTION 252**

SIMULATION - (Topic 4)

You need to create a virtual machine template in an Azure DevTest Labs environment

named az400-9940427-dtl1. The template must be based on Windows Server 2016 Datacenter. Virtual machines created from the template must include the selenium tool and the Google Chrome browser.

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

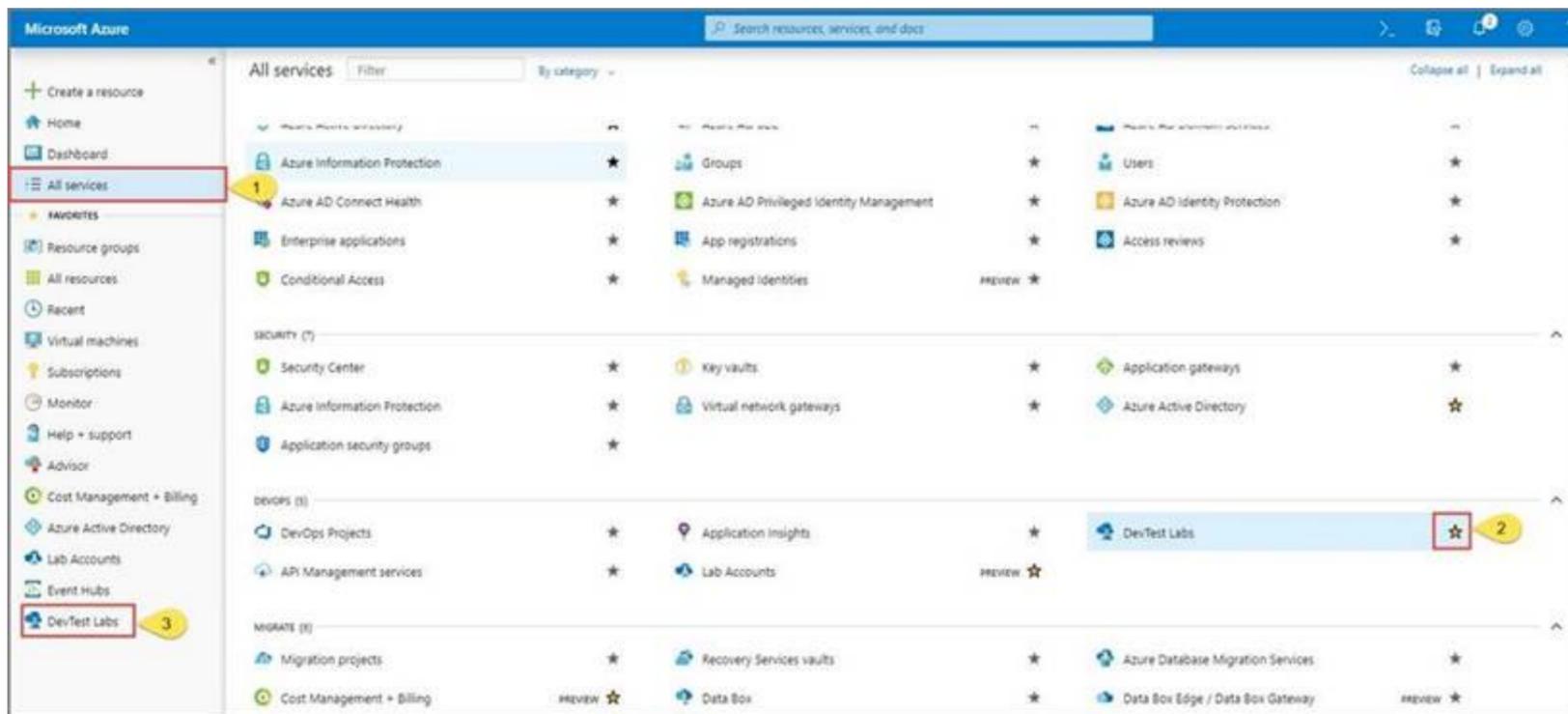
- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

\* 1. Open Microsoft Azure Portal

\* 2. Select All Services, and then select DevTest Labs in the DEVOPS section.



- \* 3. From the list of labs, select the az400-9940427-dtl1 lab
- \* 4. On the home page for your lab, select + Add on the toolbar.
- \* 5. Select the Windows Server 2016 Datacenter base image for the VM.
- \* 6. Select automation options at the bottom of the page above the Submit button.
- \* 7. You see the Azure Resource Manager template for creating the virtual machine.
- \* 8. The JSON segment in the resources section has the definition for the image type you selected earlier.

References:

<https://docs.microsoft.com/bs-cyrl-ba/azure//lab-services/devtest-lab-vm-powershell>

**NEW QUESTION 256**

DRAG DROP - (Topic 4)

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 build 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
- Hosted
- Default

An application that runs on iOS:

An Internet Information Services (IIS) web application that runs in Docker:

- 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.

**NEW QUESTION 259**

- (Topic 4)

You have several Azure Active Directory (Azure AD) accounts.

You need to ensure that users use multi-factor authentication (MFA) to access Azure apps from untrusted networks.

What should you configure in Azure AD?

- A. access reviews
- B. managed identities
- C. entitlement management
- D. conditional access

**Answer: D**

**Explanation:**

You can configure a Conditional Access policy that requires MFA for access from untrusted networks.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/howto-conditional-access-policy-all-users-mfa>

**NEW QUESTION 264**

DRAG DROP - (Topic 4)

Your company has four projects. The version control requirements for each project are shown in the following table.

Project	Requirement
Project 1	Project leads must be able to restrict access to individual files and folders in the repository.
Project 2	The version control system must enforce the following rules before merging any changes to the main branch: <ul style="list-style-type: none"> <li>• Changes must be reviewed by at least two project members.</li> <li>• Changes must be associated to at least one work team.</li> </ul>
Project 3	The project members must be able to work in Azure Repos directly from Xcode.
Project 4	The release branch must only be viewable or editable by the project leads.

You plan to use Azure Repos for all the projects.

Which version control system should you use 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.

**Version Control Systems**

**Answer Area**

Git	Project 1:	
Perforce	Project 2:	
Subversion	Project 3:	
Team Foundation Version Control	Project 4:	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- 1 -> TFVS Refer : <https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/control-access-team-foundation-version-control?view=azure-devops>
- 2 -> TFVS Refer : <https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/add-check-policies?view=azure-devops>
- 3 -> Git Refer : <https://docs.microsoft.com/en-us/azure/devops/repos/git/share-your-code-in-git-xcode?view=azure-devops>
- 4 -> TFVS Refer : <https://docs.microsoft.com/en-us/azure/devops/organizations/security/permissions?view=azure-devops#tfvc>

**NEW QUESTION 268**

DRAG DROP - (Topic 4)

Your company has an Azure subscription named Subscription1. Subscription1 is associated to an Azure Active Directory tenant named contoso.com.

You need to provision an Azure Kubernetes Services (AKS) cluster in Subscription1 and set the permissions for the cluster by using RBAC roles that reference the identities in contoso.com.

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

**Answer Area**

**Objects**

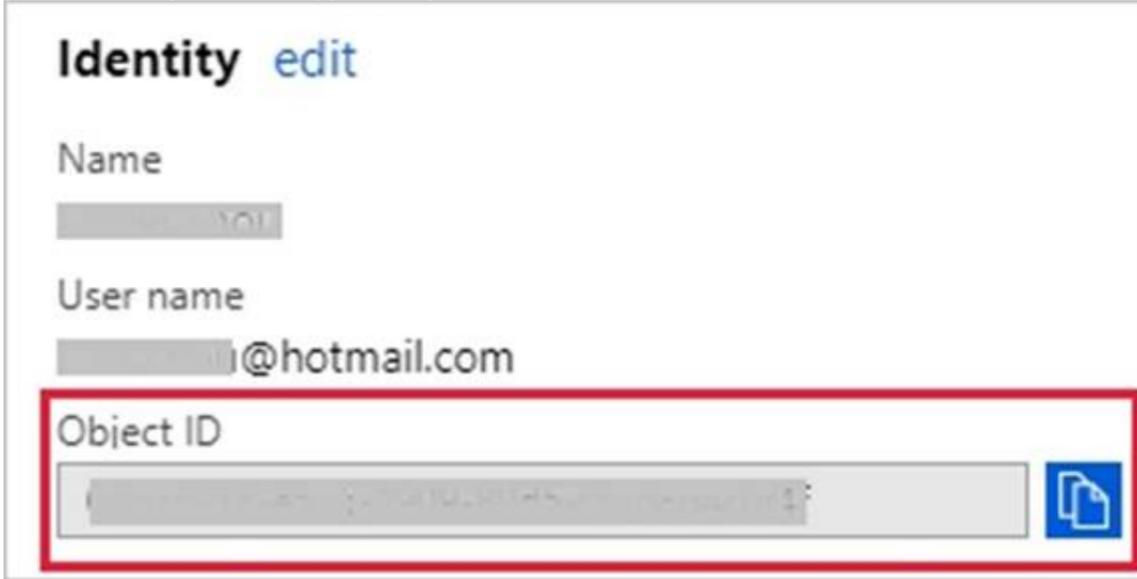
- a system-assigned managed identity
- a cluster
- an application registration in contoso.com
- an RBAC binding

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- Step 1: Create an AKS cluster
- Step 2: a system-assigned managed identity
- To create an RBAC binding, you first need to get the Azure AD Object ID.
- ? Sign in to the Azure portal.
- ? In the search field at the top of the page, enter Azure Active Directory.
- ? Click Enter.
- ? In the Manage menu, select Users.
- ? In the name field, search for your account.
- ? In the Name column, select the link to your account.
- ? In the Identity section, copy the Object ID.



Step 3: a RBAC binding

**NEW QUESTION 273**

DRAG DROP - (Topic 4)

Your company wants to use Azure Application Insights to understand how user behaviors affect an application.

Which Application Insights tool should you use to analyze each behavior? To answer, drag the appropriate tools to the correct behaviors. Each tool 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.

Impact	Feature usage:	
User Flows	Number of people who used the actions and its features:	
Users	The effect that the performance of the application has on the usage of a page or a feature:	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: User Flows

The User Flows tool visualizes how users navigate between the pages and features of your site. It's great for answering questions like:

How do users navigate away from a page on your site? What do users click on a page on your site?

Where are the places that users churn most from your site?

Are there places where users repeat the same action over and over? Box 2: Users

Counting Users: The user behavior analytics tools don't currently support counting users or sessions based on properties other than anonymous user ID, authenticated user ID, or session ID.

Box 3: Impact

Impact analyzes how load times and other properties influence conversion rates for various parts of your app. To put it more precisely, it discovers how any dimension of a page view, custom event, or request affects the usage of a different page view or custom event.

**NEW QUESTION 278**

- (Topic 4)

You use GitHub for source control

You are evaluating whether to use proxying to add a private upstream MyGet package feed to your MyGet feed. What are two possible advantages of this approach? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

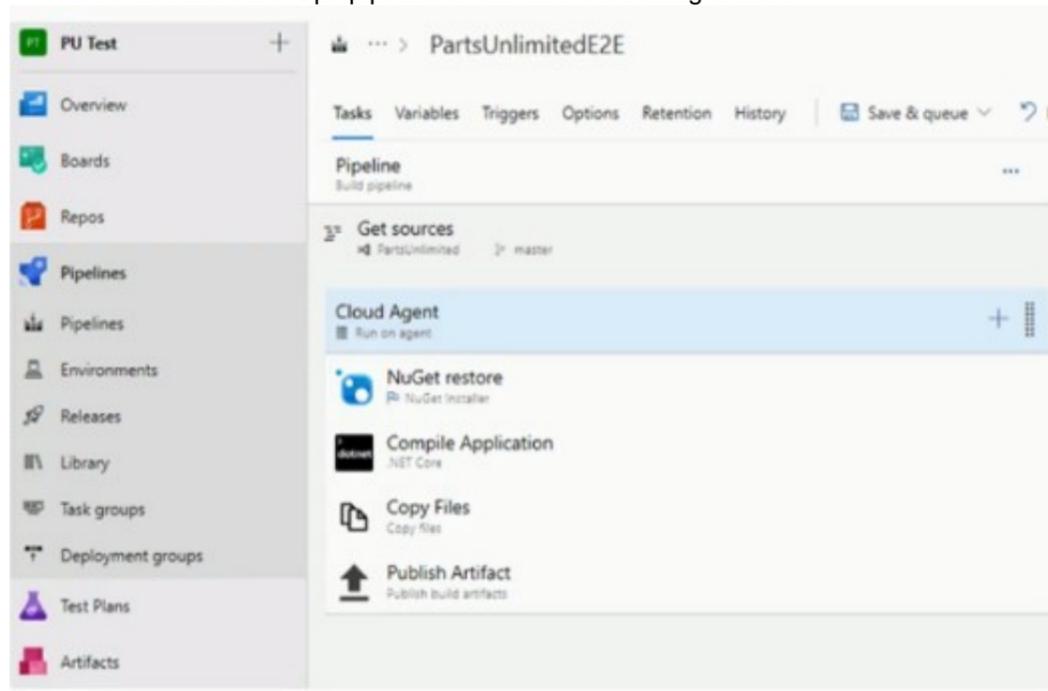
- A. minimizes latency when accessing the package
- B. provides automatic authentication
- C. minimizes the impact on your storage quota
- D. minimizes the impact of upstream source availability issues

Answer: BC

**NEW QUESTION 282**

HOTSPOT - (Topic 4)

You have the Azure DevOps pipeline shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

**Answer Area**

The pipeline has  job(s).

The pipeline has  task(s).

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: 1  
 The Cloud agent job only.  
 Box 2: 4

The pipelines has the four tasks: NuGet restore, Compile Application, Copy Files, and Publish Artifact.

**NEW QUESTION 287**

- (Topic 4)

You have a GitHub repository that contains multiple versions of an Azure Pipelines template. You plan to deploy multiple pipelines that will use a template stored in the repository. You need to ensure that you use a fixed version of the template. What should you use to reference which version of the template repository to use?

- A. the runner
- B. the branch
- C. the SHA-based hashes
- D. the serial

Answer: B

**NEW QUESTION 292**

HOTSPOT - (Topic 4)

You have an Azure Kubernetes Service (AKS) pod.

You need to configure a probe to perform the following actions: Confirm that the pod is responding to service requests. Check the status of the pod four times a minute. Initiate a shutdown if the pod is unresponsive.

How should you complete the YAML configuration file? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
apiVersion: v1
kind: Pod
metadata:
  labels:
    test: readiness-and-liveness
  name: readiness-http
spec:
  containers:
  - name: container1
    image: k8s.gcr.io/readiness-and-liveness
    args:
    - /server
```

livenessProbe:
readinessProbe:
ShutdownProbe:
startupProbe:

```
httpGet:
  path: /checknow
  port: 8123
  httpHeaders:
  - name: Custom-Header
    value: CheckNow
```

initialDelaySeconds: 15
periodSeconds: 15
timeoutSeconds: 15

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

Box 1: readiness Probe:

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.

**NEW QUESTION 297**

- (Topic 4)

Note: This question n 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 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 deployments fail if the approvals lake 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 Timeout setting for pre- deployment approvals.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Use a gate instead of an approval instead.

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

**NEW QUESTION 301**

DRAG DROP - (Topic 4)

You create a Git repository named Repo1 in Azure Repos.

You need to configure Repo1 to meet the following requirements:

- Work items must be linked to a pull request.
- Pull requests must have a minimum of two reviewers.

\* Pull requests must complete a code review by using a thirty-party tool. The solution must minimize administrative effort.

Which type of policy should you use for each requirement? To answer, drag the appropriate policy types to the correct requirements. Each policy type 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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 304**

HOTSPOT - (Topic 4)

Your company uses Azure DevOps for Get source control.

You have a project in Azure DevOps named Contoso App that contains the following repositories:

- ? <https://dev.azure.com/contoso/contoso-app/core-api>
- ? <https://dev.azure.com/contoso/contoso-app/core-spa>
- ? <https://dev.azure.com/contoso/contoso-app/core-db>

You need to ensure that developers receive Slack notifications when there are pull requests created for Contoso App.

What should you run in Slack? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: subscribe

To start monitoring all Get repositories in a project, use the following slash command inside a channel:

/azrepos subscribe [project ur1]

Box 2: <https://dev.azure.com/contoso/contoso-app>

You can also monitor a specific repository using the following command:

/azrepos subscribe [repository ur1]

The repository URL can be to any page within your repository that has your repository name.

For example, for Get repositories, use:

/azrepos subscribe [https://dev.azure.com/myorg/myproject/\\_git/myrepository](https://dev.azure.com/myorg/myproject/_git/myrepository)

**NEW QUESTION 305**

- (Topic 4)

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 organization named Contoso and an Azure subscription. The subscription contains an Azure virtual machine scale set named VMSS1 that is configured for autoscaling.

You have a project in Azure DevOps named Project1. Project1 is used to build a web app named App1 and deploy App1 to VMSS1.

You need to ensure that an email alert is generated whenever VMSS1 scales in or out. Solution: From Azure DevOps, configure the Notifications settings for Project1.

Does this meet the goal?

- A. Yes

B. No

**Answer:** B

**Explanation:**

Notifications help you and your team stay informed about activity that occurs within your projects in Azure DevOps. You can get notified when changes occur to the following items:

- ? work items
- ? code reviews
- ? pull requests
- ? source control files
- ? builds

Reference:

<https://docs.microsoft.com/en-us/azure/devops/notifications/about-notifications?view=azure-devops>

**NEW QUESTION 308**

- (Topic 4)

You manage a project by using Azure Boards. You manage the project code by using GitHub.

You have three work items that have IDs of 456, 457, and 458.

You need to create a pull request that will be linked to all the work items. The solution must set the state of work item 456 to done.

What should you add to the commit message?

A)

```
Fixes #456, #457, #458
```

B)

```
Fixes #AB456, #AB457, #AB458
```

C)

```
#456, #457, #458  
Completed #456
```

D)

```
#AB456, #AB457, #AB458
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**NEW QUESTION 312**

- (Topic 4)

Your company creates a web application.

You need to recommend a solution that automatically sends to Microsoft Teams a daily summary of the exceptions that occur in the application.

Which two Azure services should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Microsoft Visual Studio App Center
- B. Azure DevOps Project
- C. Azure Logic Apps
- D. Azure Pipelines
- E. Azure Application Insights

**Answer:** CE

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/asp-net-exceptions> <https://docs.microsoft.com/en-us/azure/azure-monitor/app/automate-custom-reports>

**NEW QUESTION 317**

DRAG DROP - (Topic 4)

You have a web app named App1 that uses Application Insights in Azure Monitor to store log data. App1 has users in multiple locations.

You need to query App1 requests from London and Paris that return error. The solution must meet the following requirements:

- ? Return the timestamp, url, result code, and duration fields.
- ? Only requests made the last hour. How should you complete the query?

**Values**

- extend
- project
- select
- timestamp >= ago(1hr)
- timestamp -gt ago(1hr)

**Answer Area**

```

...
requests
| where [ ]
| where resultCode == "404" and (client_City == "London" or client_City == "Paris")
| [ ] timestamp, url, resultCode, duration
...
    
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Values**

- extend
- project
- select
- timestamp >= ago(1hr)
- timestamp -gt ago(1hr)

**Answer Area**

```

...
requests
| where [ timestamp -gt ago(1hr) ]
| where resultCode == "404" and (client_City == "London" or client_City == "Paris")
| [ select ] timestamp, url, resultCode, duration
...
    
```

**NEW QUESTION 318**

- (Topic 4)

You are building a Microsoft ASP.NET application that requires authentication. You need to authenticate users by using Azure Active Directory (Azure AD). What should you do first?

- A. Create a membership database in an Azure SQL database.
- B. Assign an enterprise application to users and groups.
- C. Create an app registration in Azure AD.
- D. Configure the application to use a SAML endpoint.
- E. Create a new OAuth token from the application.

**Answer:** C

**Explanation:**

Register your application to use Azure Active Directory. Registering the application means that your developers can use Azure AD to authenticate users and request access to user resources such as email, calendar, and documents.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/manage-apps/developer-guidance-for-integrating-applications>

<https://docs.microsoft.com/en-us/azure/active-directory/develop/quickstart-v2-aspnet-webapp>

**NEW QUESTION 320**

- (Topic 4)

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

**Answer:** A

**Explanation:**

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:

? 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.

? 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-Continuous-Assurance/Readme.html>

**NEW QUESTION 323**

DRAG DROP - (Topic 4)

You are planning projects for three customers. Each customer's preferred process for work items is shown in the following table.

Customer name	Preferred process
Litware, Inc.	Track product backlog items (PBIs) and bugs on the Kanban board. Break the PBIs down into tasks on the task board.
Contoso, Ltd.	Track user stories and bugs on the Kanban board. Track the bugs and tasks on the task board.
A. Datum Corporation	Track requirements, change requests, risks, and reviews.

The customers all plan to use Azure DevOps for work item management.

Which work item process should you use for each customer? To answer, drag the appropriate work item process to the correct customers. Each work item process 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.

Processes	Answer Area
Agile	Litware <input type="text"/>
CMMI	Contoso: <input type="text"/>
Scrum	A. Datum: <input type="text"/>
XP	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Scrum

Choose Scrum when your team practices Scrum. This process works great if you want to track product backlog items (PBIs) and bugs on the Kanban board, or break PBIs and bugs down into tasks on the taskboard.

Box 2: Agile

Choose Agile when your team uses Agile planning methods, including Scrum, and tracks development and test activities separately. This process works great if you want to track user stories and (optionally) bugs on the Kanban board, or track bugs and tasks on the taskboard.

Box 3: CMMI

Choose CMMI when your team follows more formal project methods that require a framework for process improvement and an auditable record of decisions. With this process, you can track requirements, change requests, risks, and reviews.

**NEW QUESTION 324**

- (Topic 4)

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. Playwright
- C. Xamarin.UITest
- D. Microsoft.CodeAnalysis

**Answer:** B

**Explanation:**

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>

**NEW QUESTION 329**

SIMULATION - (Topic 4)

You need to ensure that an Azure web app named az400-9940427-main supports rolling upgrades. The solution must ensure that only 10 percent of users who connect to az400- 9940427-main use update versions of the app.

The solution must minimize administrative effort.

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

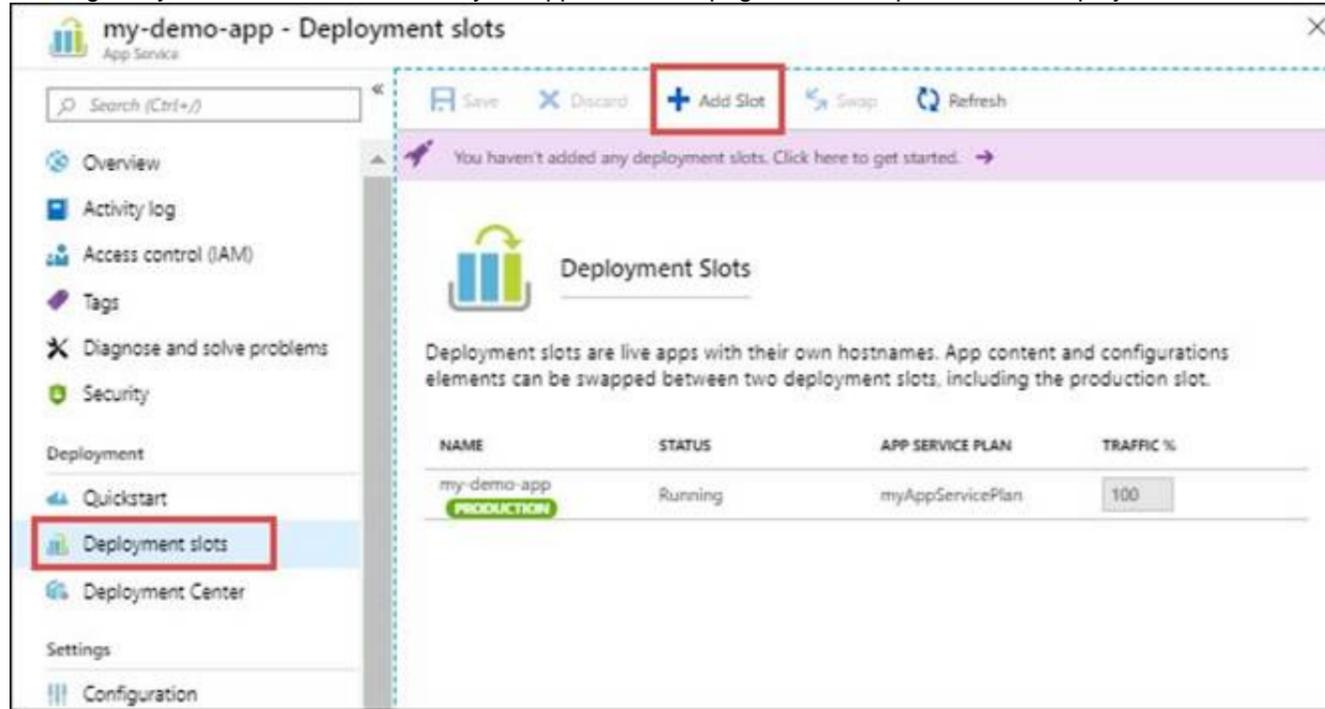
- A. Mastered
- B. Not Mastered

Answer: A

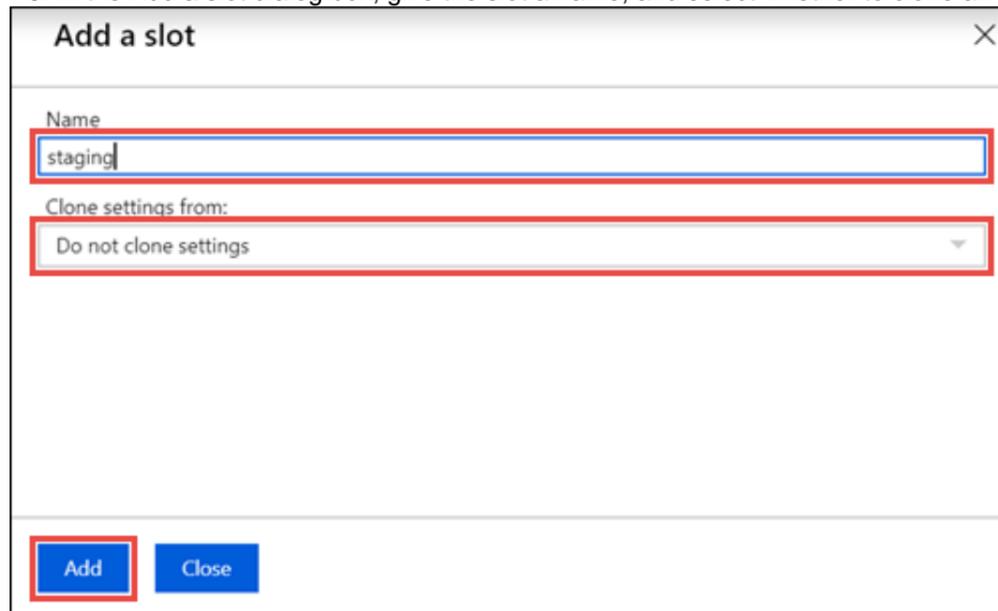
**Explanation:**

Set up staging environments in Azure App Service

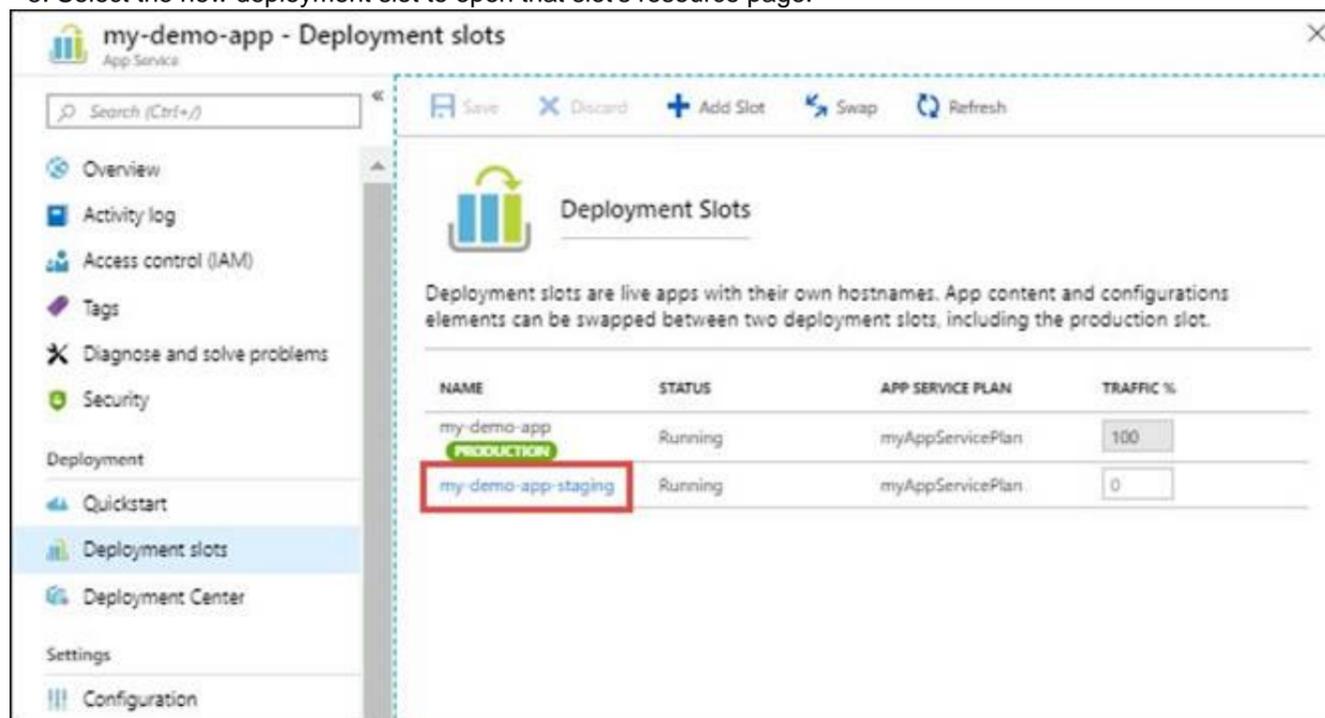
- \* 1. Open Microsoft Azure Portal
- \* 2. Log into your Azure account, select your app's resource page, in the left pane, select Deployment slots > Add Slot.



- \* 3. In the Add a slot dialog box, give the slot a name, and select whether to clone an app configuration from another deployment slot. Select Add to continue.



- \* 4. After the slot is added, select Close to close the dialog box. The new slot is now shown on the Deployment slots page. By default, Traffic % is set to 0 for the new slot, with all customer traffic routed to the production slot.
- \* 5. Select the new deployment slot to open that slot's resource page.



- \* 6. Change TRAFFIC % to 10 References:  
<https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots>

**NEW QUESTION 331**

- (Topic 4)

Note: This question is part of a series les 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 Dev Ops deployment. You need Azure Dev Ops 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 336**

- (Topic 4)

You use Azure Pipelines to manage project builds and deployments.

You plan to use Azure Pipelines for Microsoft Teams to notify the legal team when a new build is ready for release. You need to configure the Organization Settings in Azure DevOps to support Azure Pipelines for Microsoft Teams. What should you turn on?

- A. Azure Active Directory Conditional Access Policy Validation
- B. Alternate authentication credentials
- C. Third-party application access via OAuth
- D. SSH authentication

**Answer: C**

**Explanation:**

The Azure Pipelines app uses the OAuth authentication protocol, and requires Third-party application access via OAuth for the organization to be enabled. To enable this setting, navigate to Organization Settings > Security > Policies, and set the Third-party application access via OAuth for the organization setting to On.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/integrations/microsoft-teams>

**NEW QUESTION 338**

- (Topic 4)

You use GitHub for source control and project-related discussions.

You receive a notification when an entry is made to any team discussion.

You need to ensure that you receive email notifications only for discussions in which you commented or in which you are mentioned.

Which two Notifications settings should you clear? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Participating
- B. Automatically watch repositories
- C. Automatically watch teams
- D. Watching

**Answer: BD**

**NEW QUESTION 341**

- (Topic 4)

You are building an ASP.NET Core application.

You plan to create an application utilization baseline by capturing telemetry data.

You need to add code to the application to capture the telemetry data. The solution must minimize the costs of storing the telemetry data.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Add the `<InitialSamplingPercentage>99</InitialSamplingPercentage>` parameter to the ApplicationInsights.config file.
- B. From the code of the application, enable adaptive sampling.
- C. From the code of the application, add Azure Application Insights telemetry.
- D. Add the `<MaxTelemetryItemsPerSecond>5</MaxTelemetryItemsPerSecond>` parameter to the ApplicationInsights.config file.
- E. From the code of the application, disable adaptive sampling.

**Answer: CE**

**Explanation:**

"Fixed-rate sampling reduces the volume of telemetry sent from both your ASP.NET or ASP.NET Core or Java server and from your users' browsers. You set the rate. The client and server will synchronize their sampling so that, in Search, you can navigate between related page views and requests."

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/sampling>

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/asp-net-core> <https://docs.microsoft.com/en-us/azure/azure-monitor/app/sampling#configuring-adaptive-sampling-for-aspnet-core-applications>

**NEW QUESTION 342**

- (Topic 4)

You have multi-tier application that has an Azure Web Apps front end and an Azure SQL Database back end.

You need to recommend a solution to capture and store telemetry data. The solution must meet the following requirements:

- Support using ad-hoc queries to identify baselines.
- Trigger alerts when metrics in the baseline are exceeded.

• Store application and database metrics in a central location. What should you include in the recommendation?

- A. Azure Application Insights
- B. Azure SQL Database Intelligent Insights
- C. Azure Event Hubs
- D. Azure Log Analytics

**Answer:** A

**Explanation:**

Azure Platform as a Service (PaaS) resources, like Azure SQL and Web Sites (Web Apps), can emit performance metrics data natively to Log Analytics. The Premium plan will retain up to 12 months of data, giving you an excellent baseline ability.

There are two options available in the Azure portal for analyzing data stored in Log analytics and for creating queries for ad hoc analysis.

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

**NEW QUESTION 344**

- (Topic 3)

You need !0 the merge the POC branch into the default branch. The solution must meet the technical requirements. Which command should you run?

- A. git push
- B. git merge -- allow-unrelated-histories
- C. git rebase
- D. git merge --squash

**Answer:** C

**NEW QUESTION 349**

DRAG DROP - (Topic 3)

You need to configure authentication for App1. The solution must support the planned changes.

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

Actions Commands Cmdlets Statements		Answer Area
Create an app.		
Add a secret.		
Create a credential.	⏪	⏩
Configure the ID and secret for App1.	⏩	⏪
Create a managed service identity.		

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

? Configure App1 to use a service principal.

**NEW QUESTION 352**

- (Topic 3)

You need to meet the technical requirements for monitoring App1. What should you use?

- A. Splunk
- B. Azure Application Insights
- C. Azure Advisor
- D. App Service logs

**Answer:** B

**NEW QUESTION 357**

DRAG DROP - (Topic 3)

You need to replace the existing DevOps tools to support the planned changes.

What should you use? To answer, drag the appropriate tools to the correct targets. Each tool 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.

**Tools**

- Azure Boards
- Azure Artifacts
- GitHub Actions
- Azure Pipelines
- Azure Test Plans
- GitHub repositories

**Answer Area**

- Trello: Tool
- Bamboo: Tool
- BitBucket: Tool

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Azure Boards

Azure Boards can be used to track work with Kanban boards, backlogs, team dashboards, and custom reporting  
You can create multiple Trello boards, which are spaces to store tasks (for different work contexts, or even private boards)  
You can easily share Trello boards with another person.

Box 2: Azure Pipelines

You can use Bamboo to implement CI/CD (Continuous Integration and Continuous Delivery) for a simple Azure function app using Atlassian Bamboo. Bamboo does continuous delivery of the project from source code to deployment. It has stages including Build, Test and Deploy.  
Software teams in every industry are upgrading their continuous delivery pipeline with Bamboo. Easy build import from popular open source tools, user and group import from JIRA, seamless integration with Bitbucket, and native support for Git, Hg, and SVN means you'll be building and deploying like a champ.

Box 3: GitHub repositories

Bitbucket can be used as the Git repository, but you can use any other Git repository (Like TFS Git) for source control of the code.

**NEW QUESTION 360**

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