

# Microsoft

## Exam Questions AZ-400

Microsoft Azure DevOps Solutions (beta)



### NEW QUESTION 1

SIMULATION - (Topic 4)

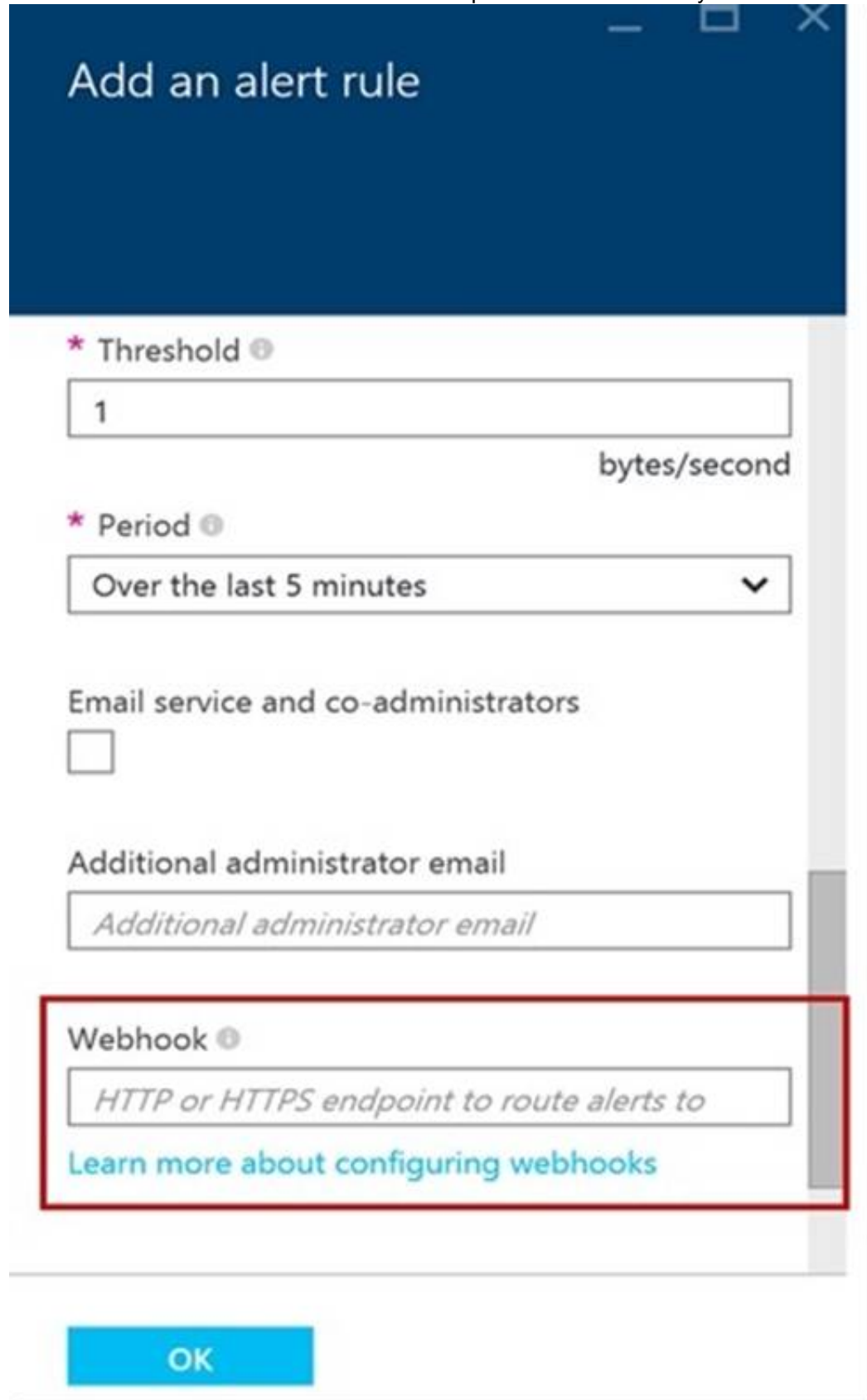
You need to create a notification if the peak average response time of an Azure web app named az400-9940427-main is more than five seconds when evaluated during a five- minute period. The notification must trigger the “https://contoso.com/notify” webhook.  
 To complete this task, sign in to the Microsoft 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** ⓘ

1

bytes/second

\* **Period** ⓘ

Over the last 5 minutes ▼

Email service and co-administrators

☐

Additional administrator email

Additional administrator email

**Webhook** ⓘ

HTTP or HTTPS endpoint to route alerts to

[Learn more about configuring webhooks](#)

**OK**

References:

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

### NEW QUESTION 2

SIMULATION - (Topic 4)

You need to create an instance of Azure Application Insights named az400-9940427-main and configure the instance to receive telemetry data from an Azure web app named az400- 9940427-main.  
 To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

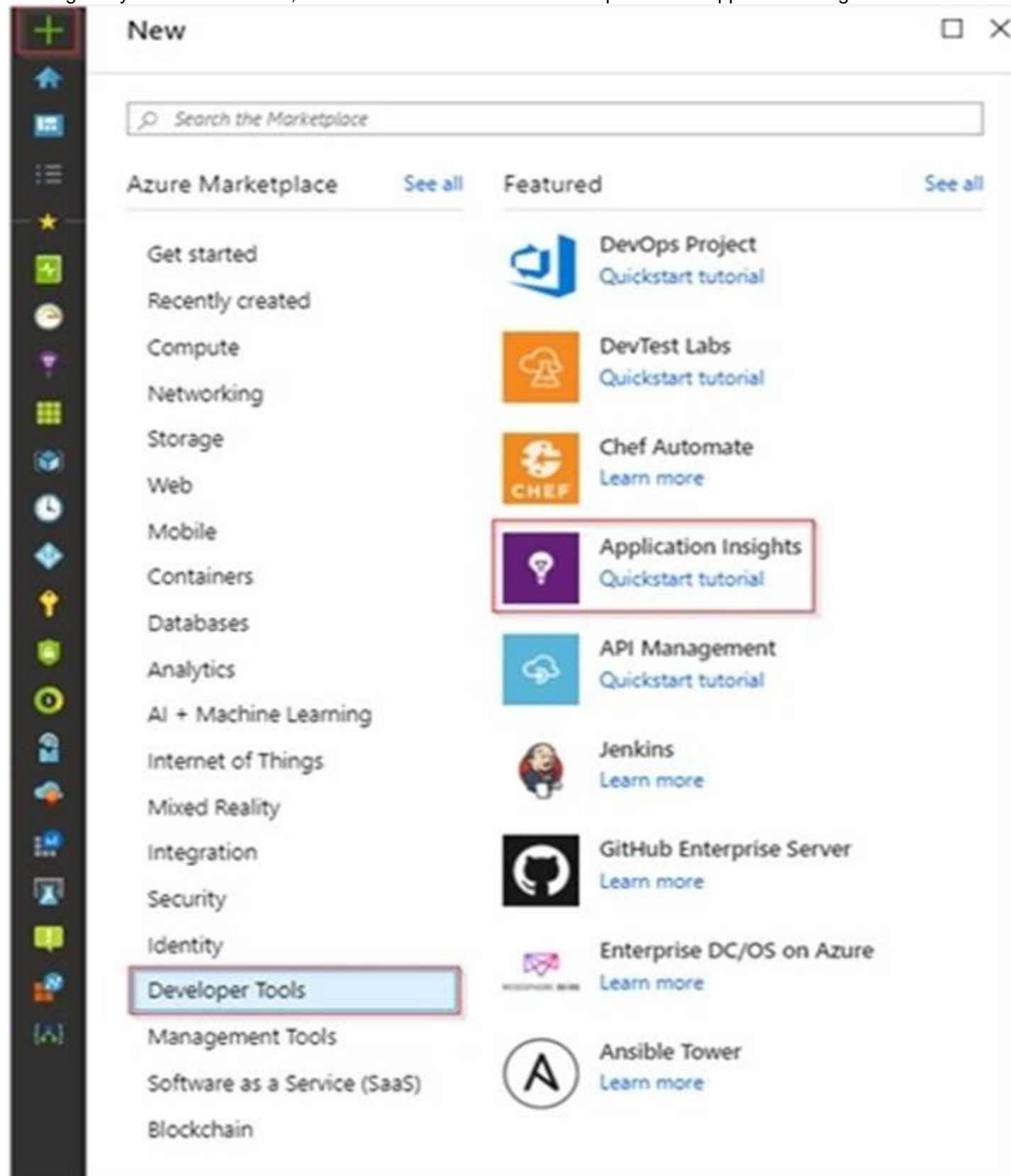
**Answer: A**

**Explanation:**

Step 1: Create an instance of Azure Application Insights

\* 1. Open Microsoft Azure Portal

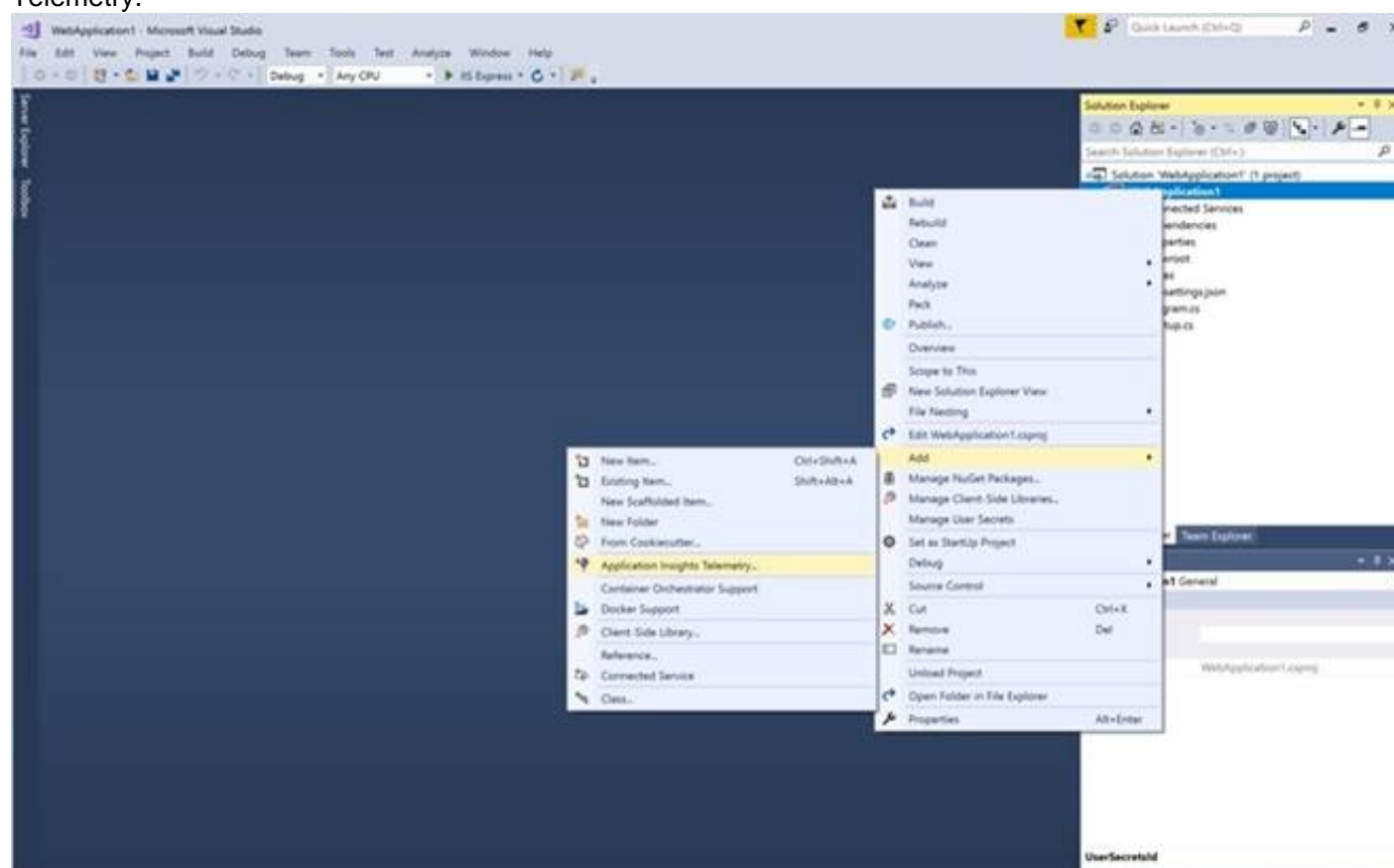
\* 2. Log into your Azure account, Select Create a resource > Developer tools > Application Insights.



\* 3. Enter the following settings, and then select Review + create. Name: az400-9940427-main

Step 2: Configure App Insights SDK

\* 4. Open your ASP.NET Core Web App project in Visual Studio > Right-click on the AppName in the Solution Explorer > Select Add > Application Insights Telemetry.



\* 5. Click the Get Started button

\* 6. Select your account and subscription > Select the Existing resource you created in the Azure portal > Click Register.

References:  
<https://docs.microsoft.com/bs-latn-ba/azure/azure-monitor/learn/dotnetcore-quick-start?view=vs-2017>

**NEW QUESTION 3**  
HOTSPOT - (Topic 4)  
HOTSPOT

You need to create deployment files for an Azure Kubernetes Service (AKS) cluster. The deployments must meet the provisioning storage requirements shown in the following table.

Deployment	Requirement
Deployment 1	Use files stored on an SMB-based share from the container's file system.
Deployment 2	Use files on a managed disk from the container's file system.
Deployment 3	Securely access X.509 certificates from the container's file system.

Which resource type should you use for each deployment? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

Deployment 1:

▼

azurekeyvault-flexvolume

blobfuse-flexvol

kubernetes.io/azure-disk

kubernetes.io/azure-file

volume.beta.kubernetes.io/storage-provisioner

Deployment 2:

▼

azurekeyvault-flexvolume

blobfuse-flexvol

kubernetes.io/azure-disk

kubernetes.io/azure-file

volume.beta.kubernetes.io/storage-provisioner

Deployment 3:

▼

azurekeyvault-flexvolume

blobfuse-flexvol

kubernetes.io/azure-disk

kubernetes.io/azure-file

volume.beta.kubernetes.io/storage-provisioner

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
Deployment 1: Kubernetes.io/azure-file  
You can use Azure Files to connect using the Server Message Block (SMB) protocol. Deployment 2: Kubernetes.io/azure-disk  
Deployment 3: azurekeyvault-flexvolume  
azurekeyvault-flexvolume: Key Vault FlexVolume: Seamlessly integrate your key management systems with Kubernetes. Secrets, keys, and certificates in a key management system become a volume accessible to pods. Once the volume is mounted, its data is available directly in the container filesystem for your application.

**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

- (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 6

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:	<input type="text"/>
Cycle Time		
Lead Time	The elapsed time to complete work items once they are active:	<input type="text"/>
Velocity	The remaining work:	<input type="text"/>

- 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 7

- (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 8**

DRAG DROP - (Topic 4)

You have an Azure Repos repository that contains large PSD files. You need to configure Get LFS to manage all the files.

How should you complete the script? To answer, drag the appropriate access levels to the correct groups. Each access level may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Values

git fetch

git lfs config add \*.psd

git lfs migrate import --include=\*.psd --everything

git lfs track \*.psd

git lfs update

git push

Answer Area

...

git lfs install

Value

git add .gitattributes

Value

git commit -m "track \*.psd files using Git LFS"

Value

...

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Values

git fetch

git lfs config add \*.psd

git lfs migrate import --include=\*.psd --everything

git lfs track \*.psd

git lfs update

git push

Answer Area

...

git lfs install

git lfs track \*.psd

git add .gitattributes

git commit -m "track \*.psd files using Git LFS"

git lfs migrate import --include=\*.psd --everything

git lfs update

...

**NEW QUESTION 9**

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 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 m.ght meet the stated goals. Some question sets might have more than one correct solution, while others might not have a

correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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

Solution: You create a service hook subscription that uses the code pushed event. Does this meet the goal?

- A. Yes
- B. NO

**Answer: A**

**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 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 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 17**

- (Topic 4)

You have a project in Azure DevOps named Project1. Project1 contains a pipeline that builds a container image named Image1 and pushes Image1 to an Azure container registry named ACR1. Image1 uses a base image stored in Docker Hub.

You need to ensure that Image1 is updated automatically whenever the base image is updated.

What should you do?

- A. Create and run an Azure Container Registry task.
- B. Add a Docker Hub service connection to Azure Pipelines.
- C. Enable the Azure Event Grid resource provider and subscribe to registry events.
- D. Create a service hook in Project1.

**Answer: A**

**Explanation:**

ACR Tasks supports automated container image builds when a container's base image is updated, such as when you patch the OS or application framework in one of your base images.

Reference:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-tutorial-base-image-update>

### NEW QUESTION 18

HOTSPOT - (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 the project can be scanned for known security vulnerabilities in the open source libraries.

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

Object to create:

A build task
A deployment task
An artifacts repository

Service to use:

WhiteSource Bolt
Bamboo
CMake
Chef

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: A Build task Trigger a build

You have a Java code provisioned by the Azure DevOps demo generator. You will use WhiteSource Bolt extension to check the vulnerable components present in this code.

? Go to Builds section under Pipelines tab, select the build definition WhiteSourceBolt and click on Queue to trigger a build.

? To view the build in progress status, click on ellipsis and select View build results.

Box 2: WhiteSource Bolt

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.

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

### NEW QUESTION 23

- (Topic 4)

You use GitHub for source control.

A file that contains sensitive data is committed accidentally to the Get repository of a project.

You need to delete the file and its history form the repository.

Which two tools can you use? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. the git filter-branch command
- B. BFG Repo-Cleaner
- C. the git rebase command
- D. GitHub Desktop

**Answer:** AB

#### Explanation:

To entirely remove unwanted files from a repository's history you can use either the git filter-branch command or the BFG Repo-Cleaner open source tool.

Reference:

<https://docs.github.com/en/github/authenticating-to-github/keeping-your-account-and-data-secure/removing-sensitive-data-from-a-repository>

### NEW QUESTION 28

- (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 31

- (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 32

- (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 34

- (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 37

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:	<div>Master</div> <div>Feature</div> <div>Develop</div>
Preproduction code:	<div>Master</div> <div>Feature</div> <div>Develop</div>

- 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 41**

- (Topic 4)

You have an Azure subscription linked to a tenant in Microsoft Azure Active Directory (Azure AD), part of Entrap. The tenant is licensed for Azure AD Premium Plan 1.

A security review indicates that too many users have privileged access to resources. You need to deploy a privileged access management solution that meets the following requirements:

- Enforces time limits on the use of privileged access
- Requires approval to activate privileged access
- Minimizes costs

What should you do first?

- A. Configure alerts for the activation of privileged roles.
- B. Enforce Azure Multi-Factor Authentication (MFA) for role activation.
- C. Configure notifications when privileged roles are activated.
- D. Upgrade the license of the Azure AD tenant.

**Answer:** D

**NEW QUESTION 42**

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
an Azure Key Vault access policy	Restrict access to delete the key vault: <input type="text"/>
a personal access token (PAT)	Restrict access to the secrets in Key Vault by using: <input type="text"/>
RBAC	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: 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.

Box 2: RBAC

References:

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

**NEW QUESTION 46**

- (Topic 4)

You administer an Azure DevOps project that includes package feeds.

You need to ensure that developers can unlist and deprecate packages. The solution must use the principle of least privilege.

Which access level should you grant to the developers?

- A. Collaborator
- B. Contributor
- C. Owner

**Answer: B**

**Explanation:**

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

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

Reference:

<https://docs.microsoft.com/en-us/azure/devops/artifacts/feeds/feed-permissions>

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

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

You discover that deployment fail if the approvals take longer than two hours.

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

Solution: From Post-deployment conditions, you modify the Timeout setting for post- deployment approvals.

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Use Pre-deployments conditions instead. Use a gate instead of an approval instead.

References:

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

**NEW QUESTION 53**

HOTSPOT - (Topic 4)

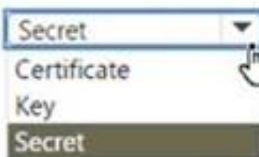
You have an Azure subscription that contains an Azure key vault named Vault1. an Azure pipeline named Pipeline1, and an Azure SQL database named DB1.

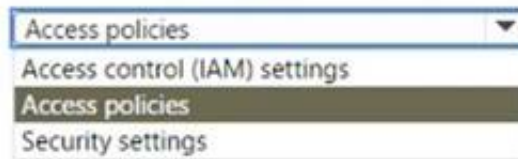
Pipeline1 is used to deploy an app that will authenticate to DB1 by using a password.

You need to store the password in Vault1. The solution must ensure that the password can be accessed by Pipeline1.

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

#### Answer Area

Store the password as a: 


Grant Pipeline1 access to Vault1 by modifying the: 

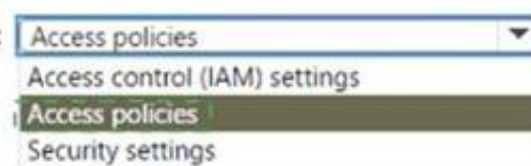
- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Store the password as a: 

Grant Pipeline1 access to Vault1 by modifying the: 

#### NEW QUESTION 55

- (Topic 4)

You use WhiteSource Bolt to scan a Node.js application.

The WhiteSource Bolt scan identifies numerous libraries that have invalid licenses. The libraries are used only during development and are not part of a production deployment.

You need to ensure that WhiteSource Bolt only scans production dependencies.

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

- A. Run npm install and specify the --production flag.
- B. Modify the WhiteSource Bolt policy and set the action for the licenses used by the development tools to Reassign.
- C. Modify the devDependencies section of the project's Package.json file.
- D. Configure WhiteSource Bolt to scan the node\_modules directory only.

**Answer:** AC

**Explanation:**

A: To resolve NPM dependencies, you should first run "npm install" command on the relevant folders before executing the plugin.

C: All npm packages contain a file, usually in the project root, called package.json - this file holds various metadata relevant to the project. This file is used to give information to npm that allows it to identify the project as well as handle the project's dependencies. It can also contain other metadata such as a project description, the version of the project in a particular distribution, license information, even configuration data - all of which can be vital to both npm and to the end users of the package.

Reference: <https://whitesource.atlassian.net/wiki/spaces/WD/pages/34209870/NPM+Plugin>

<https://nodejs.org/en/knowledge/getting-started/npm/what-is-the-file-package-json>

#### NEW QUESTION 58

- (Topic 4)

Your company develops an application named App1 that is deployed in production.

As part of an application update, a new service is being added to App1. The new service requires access to an application named App2 that is currently in development.

You need to ensure that you can deploy the update to App1 before App2 becomes

available. You must be able to enable the service in App1 once App2 is deployed. What should you do?

- A. Create a branch in the build.
- B. Implement a branch policy.
- C. Create a fork in the build.
- D. Implement a feature flag.

**Answer:** D

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/devops/migrate/phase-features-with-feature-flags>

#### NEW QUESTION 59

HOTSPOT - (Topic 4)

You currently use JIRA, Jenkins, and Octopus as part of your DevOps processes. You plan to use Azure DevOps to replace these tools.



Which Azure DevOps service should you use to replace each tool? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

JIRA:

Jenkins:

Octopus:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

JIRA- BoardJenkins- Build PipelinesOctopus- Release pipelines

#### NEW QUESTION 61

- (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 66

- (Topic 4)

You manage an Azure web app that supports an e-commerce website.

You need to increase the logging level when the web app exceeds normal usage patterns. The solution must minimize administrative overhead.

Which two resources should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. an Azure Automation run book
- B. an Azure Monitor alert that has a dynamic threshold
- C. an Azure Monitor alert that has a static threshold
- D. the Azure Monitor auto scale settings
- E. an Azure Monitor alert that uses an action group that has an email action

**Answer:** AB

**Explanation:**

A: You can use Azure Monitor to monitor base-level metrics and logs for most services in Azure. You can call Azure Automation run books by using action groups or by using classic alerts to automate tasks based on alerts.

B: Metric Alert with Dynamic Thresholds detection leverages advanced machine learning (ML) to learn metrics' historical behavior, identify patterns and anomalies that indicate possible service issues. It provides support of both a simple UI and operations at scale by allowing users to configure alert rules through the Azure Resource Manager API, in a fully automated manner. Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-dynamic-thresholds>  
<https://docs.microsoft.com/en-us/azure/automation/automation-create-alert-triggered-runbook>

**NEW QUESTION 71**

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 73**

- (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 reducing the code coupling and the dependency cycles?

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead reduce the code complexity.

Note: Technical debt is the accumulation of sub-optimal technical decisions made over the lifetime of an application. Eventually, it gets harder and harder to change things: it's the 'sand in the gears' that sees IT initiatives grind to a halt.

Reference:

<https://dzone.com/articles/fight-through-the-pain-how-to-deal-with-technical> <https://www.devopsgroup.com/blog/five-ways-devops-helps-with-technical-debt/>

**NEW QUESTION 78**

SIMULATION - (Topic 4)

You have several apps that use an Azure SQL Database named db1.

You need to ensure that queries to db1 are tuned by Azure over time. The solution must only apply to db1.

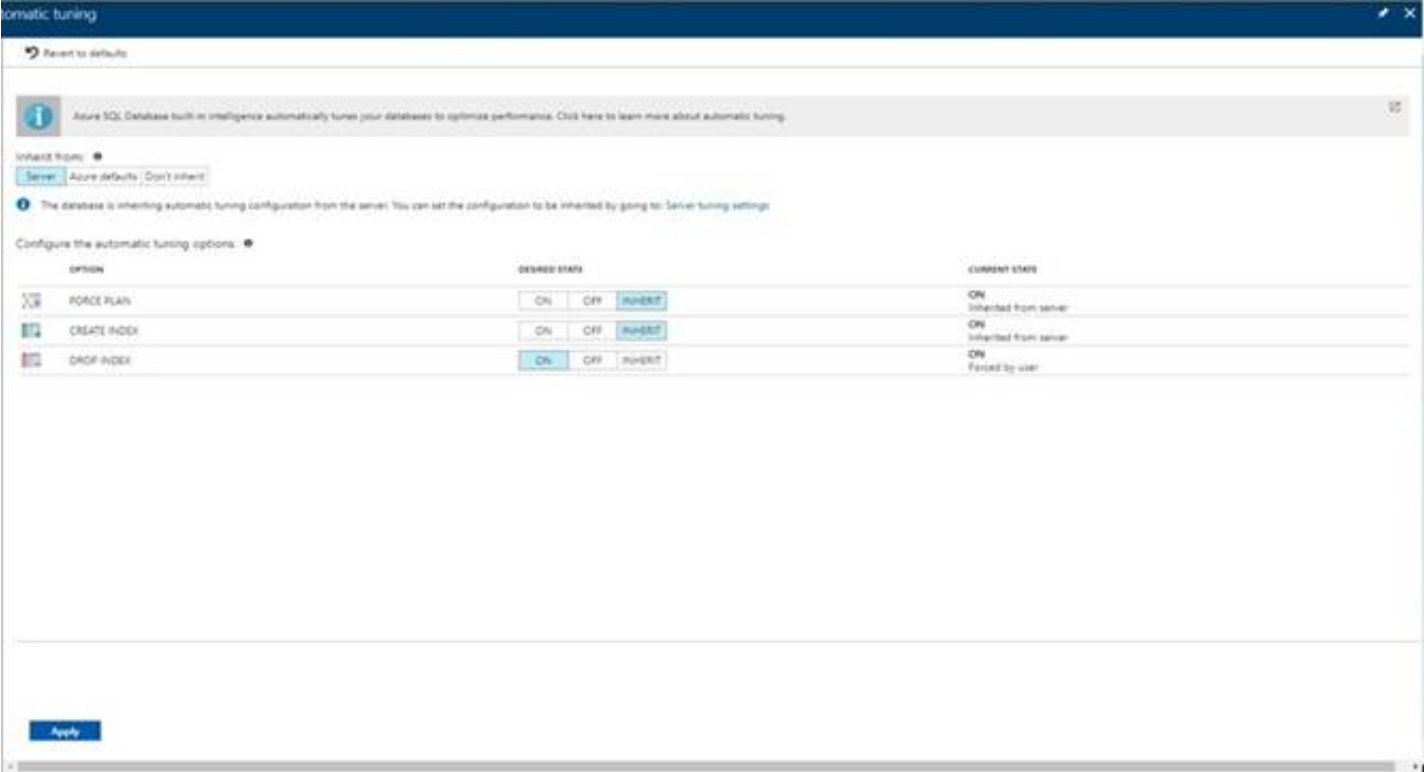
To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* 1. To enable automatic tuning on a single database, navigate to the database in the Azure portal and select Automatic tuning.



\* 2. Select the automatic tuning options you want to enable and select Apply.

Note: Individual automatic tuning settings can be separately configured for each database. You can manually configure an individual automatic tuning option, or specify that an option inherits its settings from the server.

**NEW QUESTION 79**

- (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 82**

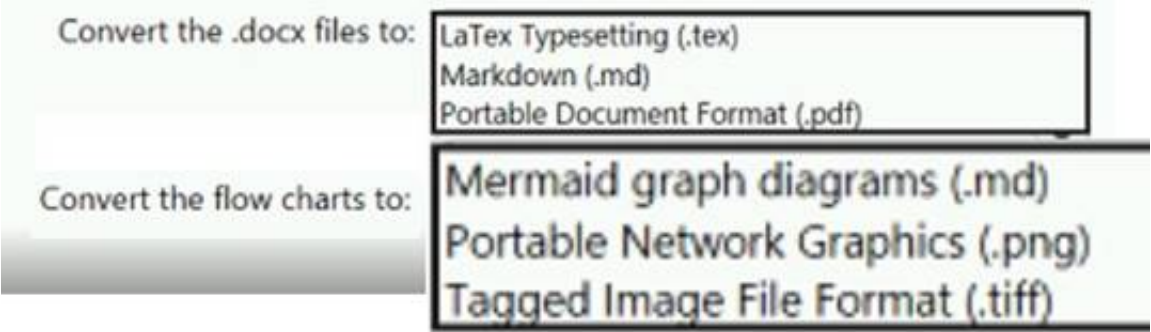
HOTSPOT - (Topic 4)

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 86

- (Topic 4)

You are integrating Azure Pipelines and Microsoft Teams. You install the Azure Pipelines app in Microsoft Teams.

You have an Azure DevOps organization named Contoso that contains a project name Project1.

You subscribe to Project1 in Microsoft Teams.

You need to ensure that you only receive events about failed builds in Microsoft Teams. What should you do first?

A. From Microsoft Teams, run @azure pipelines subscribe https://dev.azure.com/Contoso/Project1.

B. From Azure Pipelines, add a Publish Build Artifacts task to Project1.

C. From Microsoft Teams, run @azure pipelines subscriptions.

D. From Azure Pipelines, enable continuous integration for Project1.

**Answer:** A

#### Explanation:

To start monitoring all pipelines in a project, use the following command inside a channel:

@azure pipelines subscribe [project url]

The project URL can be to any page within your project (except URLs to pipelines). For example:

@azure pipelines subscribe https://dev.azure.com/myorg/myproject/ Reference:

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

#### NEW QUESTION 91

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 secretes 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 eh appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



```

"resources": [
{
  "apiversion": "2018-05-01",
  "name" : "secrets",
  "type": 

|                                         |   |
|-----------------------------------------|---|
|                                         | ▼ |
| "Microsoft.KeyVault/vaults",            |   |
| "Microsoft.Resources/deployment".       |   |
| "Microsoft.Subscription/subscriptions". |   |


  "properties": {
    "mode" : "Incremental",
    

|                |   |
|----------------|---|
|                | ▼ |
| "deployment"   |   |
| "template"     |   |
| "templateLink" |   |

 : {
contentVersion" : "1.0.0.0",
  "uri" : "[uri(parameters('_artifactsLocation'),
concat('./nested/sqlserver.json',
parameters('_artifactsLocationSasToken')))]"
},
"parameters": {
  "secret": {
    "reference": {
      "keyVault": {
        "id": "[resourceId(parameters('vaultSubscription'),
parameters('vaultResourceGroupName'),
'Microsoft.KeyVault/vaults',
parameters('vaultName'))]"
      },
      "secretName": "[parameters('secretName')]"
    }
  }
}
],

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```

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

```

**NEW QUESTION 95**

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.

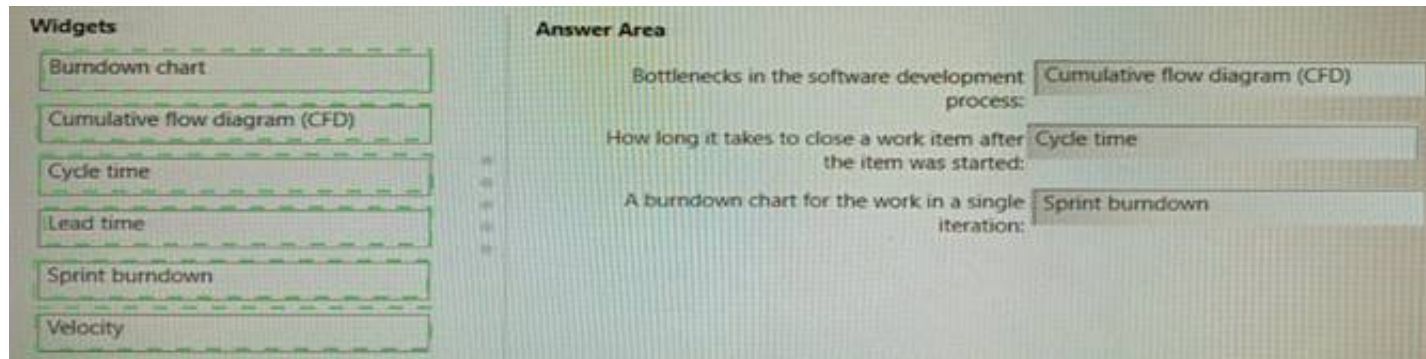
NOTE: Each correct selection is worth one point.

Widgets	Answer Area
Burndown chart	Bottlenecks in the software development process: <input type="text"/>
Cumulative flow diagram (CFD)	How long it takes to close a work item after the item was started: <input type="text"/>
Cycle time	A burndown chart for the work in a single iteration: <input type="text"/>
Lead time	
Sprint burndown	
Velocity	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**



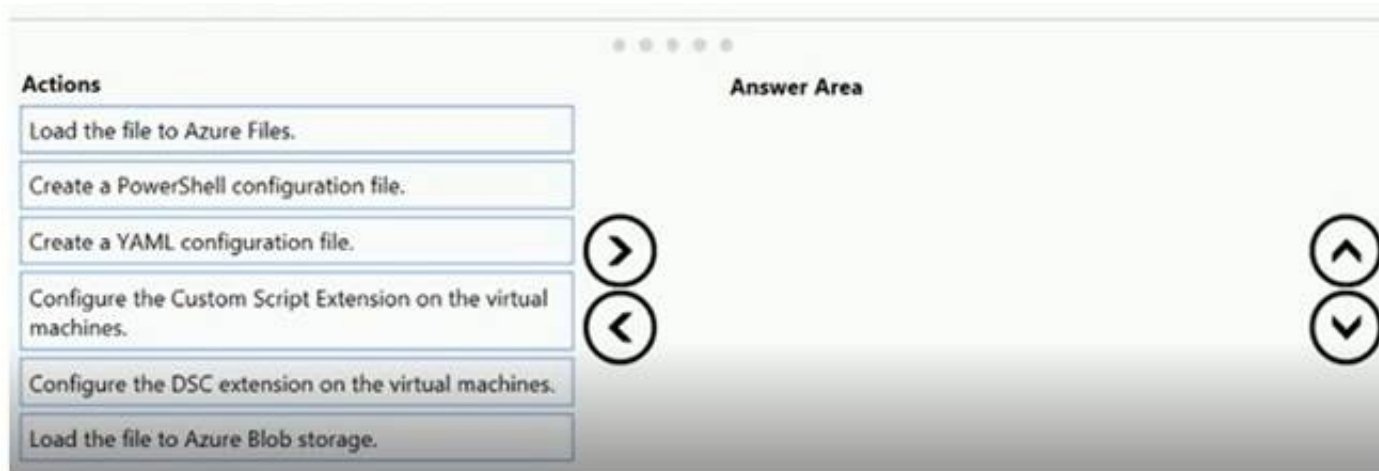
#### NEW QUESTION 96

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 99

- (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 101

SIMULATION - (Topic 4)

You manage a website that uses an Azure SQL Database named db1 in a resource group named RG1lod11566895.

You need to modify the SQL database to protect against SQL injection. To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered



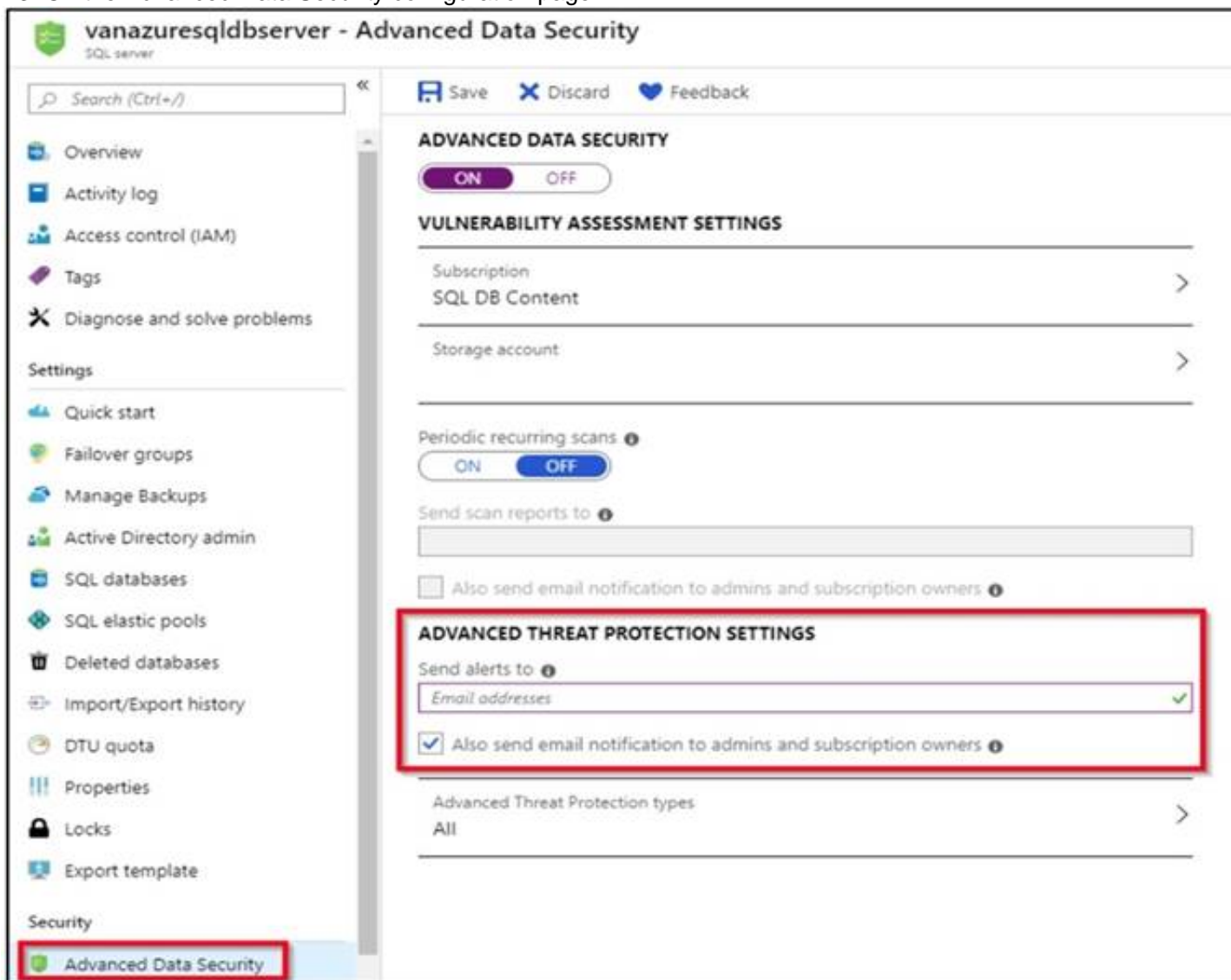
B. Not Mastered

**Answer:** A

**Explanation:**

Set up Advanced Threat Protection in the Azure portal

- \* 1. Sign into the Azure portal.
- \* 2. Navigate to the configuration page of the server you want to protect. In the security settings, select Advanced Data Security.
- \* 3. On the Advanced Data Security configuration page:



- \* 4. Enable Advanced Data Security on the server.

Note: Advanced Threat Protection for Azure SQL Database detects anomalous activities indicating unusual and potentially harmful attempts to access or exploit databases. Advanced Threat Protection can identify Potential SQL injection, Access from unusual location or data center, Access from unfamiliar principal or potentially harmful application, and Brute force SQL credentials

**NEW QUESTION 103**

- (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 104**

- (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 105

- (Topic 4)

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

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

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

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

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

? Integrate directly with Azure DevOps.

What should you recommend?

A. Microsoft Project

B. Bamboo

C. Microsoft Lync

D. Microsoft Teams

**Answer: D**

#### Explanation:

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

? Microsoft Teams works on Android, iOS, Mac and Windows systems and devices.

It also works in Chrome, Firefox, Internet Explorer 11 and Microsoft Edge web browsers.

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

? Teams integrates with Azure DevOps.

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

#### NEW QUESTION 107

- (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 111

- (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 112

- (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-Continuous-Assurance/Readme.html>

**NEW QUESTION 117**

- (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 119**

DRAG DROP - (Topic 4)

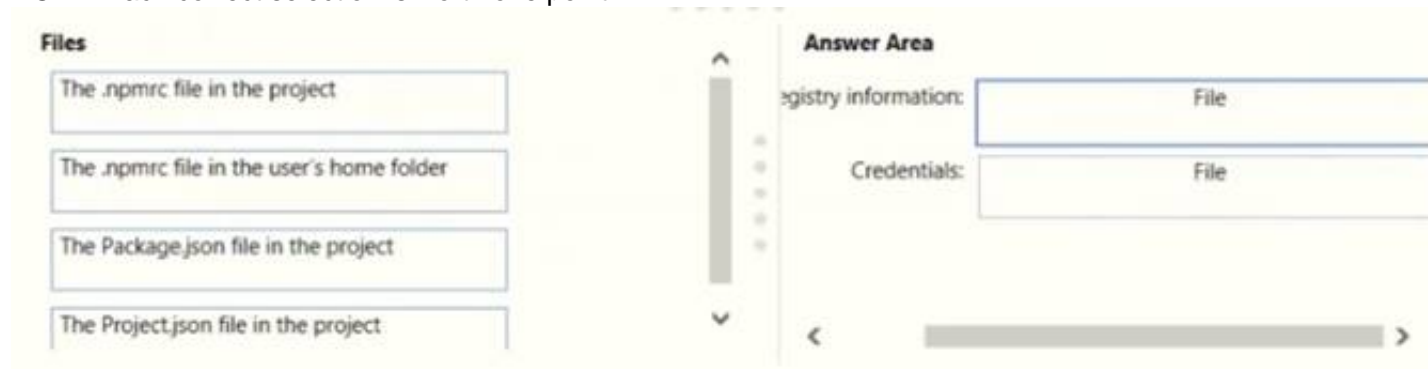
You are implementing a package management solution for a Node.js application by using Azure Artifacts.

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.



The screenshot shows a configuration interface for Azure Artifacts. On the left, under the heading "Files", there is a list of four items: "The .npmrc file in the project", "The .npmrc file in the user's home folder", "The Package.json file in the project", and "The Project.json file in the project". On the right, under the heading "Answer Area", there are two sections: "Registry information:" and "Credentials:". Each section has a dropdown menu currently set to "File". Below these sections is a horizontal scrollbar.

- 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 123**

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.

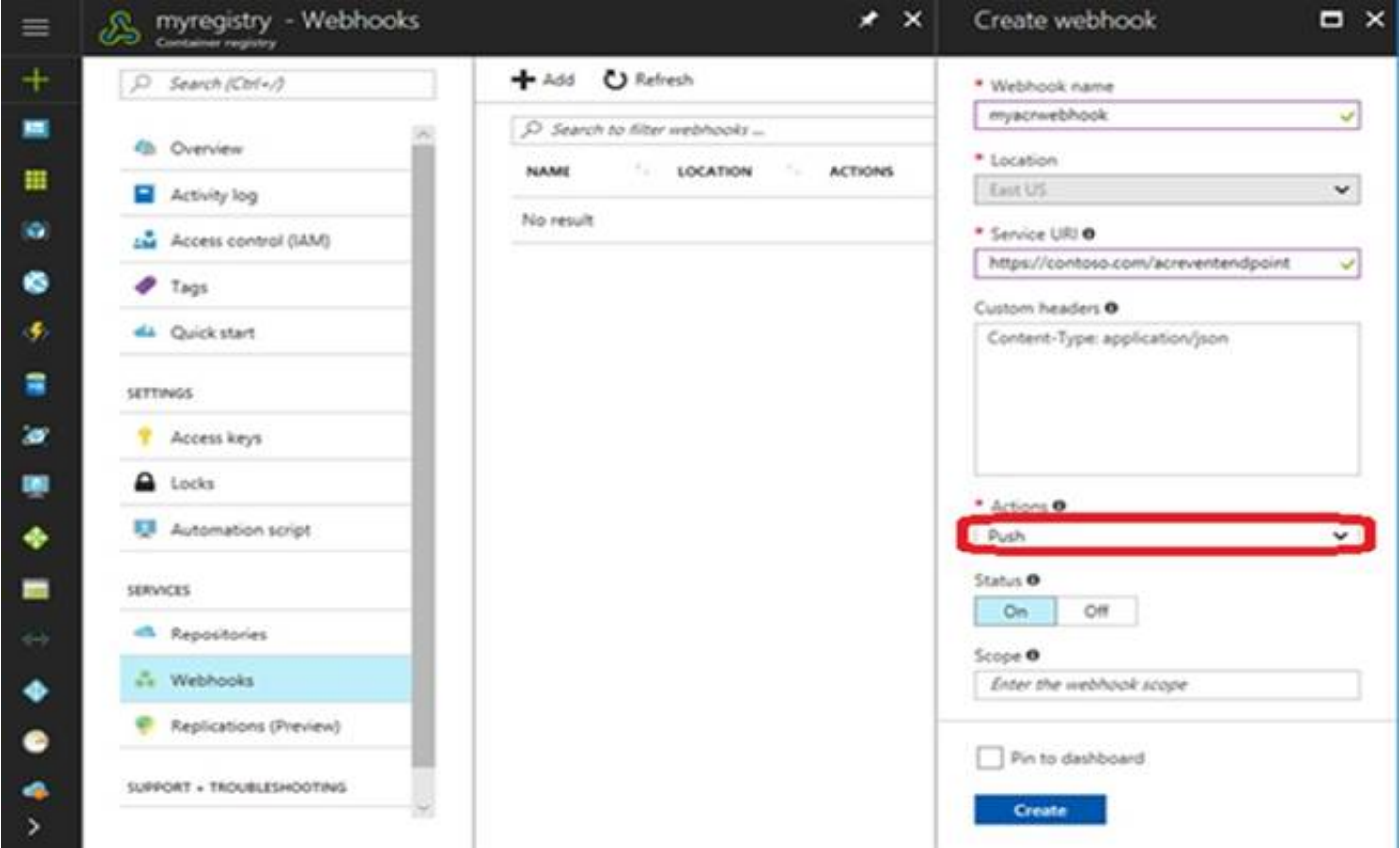
To complete this task, sign in to the Microsoft Azure portal.

- 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 125**

DRAG DROP - (Topic 4)

You have a large repository named Repo1 that contains a directory named directory1. 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.

Values

git clone

git fetch

git sparse-checkout

git worktree

scalar clone

scalar run

Answer Area

```
...  
cd repos  
[ ] https://dev.azure.com/organisation/_git/Repo1  
[ ] set directory1  
...
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Values

git clone

git fetch

git sparse-checkout

git worktree

scalar clone

scalar run

Answer Area

```
...  
cd repos  
git clone https://dev.azure.com/organisation/_git/Repo1  
git sparse-checkout set directory1  
...
```

**NEW QUESTION 126**

- (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 130**

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

Grant the system-assigned managed identity Certificate permissions for the key vault.

Create an Azure key vault and store the key.

Configure the key vault properties for the cluster.

Grant the system-assigned managed identity Key permissions for the key vault.

Create an Azure Monitor Logs dedicated cluster that has a system-assigned managed identity.

Link the Log Analytics workspace to the cluster.

Answer Area

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- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Grant the system-assigned managed identity Certificate permissions for the key vault.

Create an Azure key vault and store the key.

Configure the key vault properties for the cluster.

Grant the system-assigned managed identity Key permissions for the key vault.

Create an Azure Monitor Logs dedicated cluster that has a system-assigned managed identity.

Link the Log Analytics workspace to the cluster.

Answer Area

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.

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**NEW QUESTION 134**

SIMULATION - (Topic 4)

You need to create an instance of Azure Application Insights named az400-9940427-main and configure the instance to receive telemetry data from an Azure web app named az400- 9940427-main.

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

- A. Mastered
- B. Not Mastered

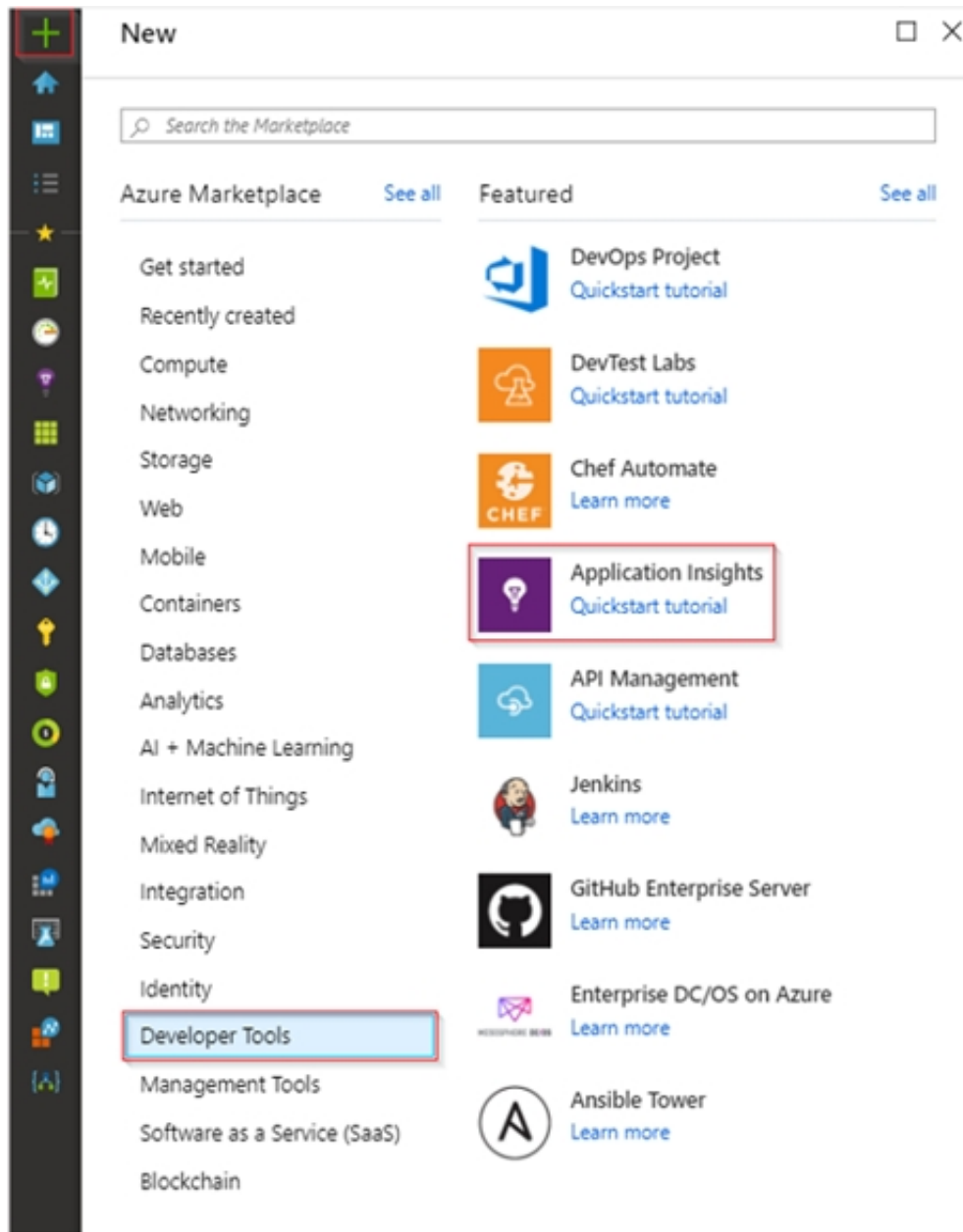
Answer: A

Explanation:

Step 1: Create an instance of Azure Application Insights

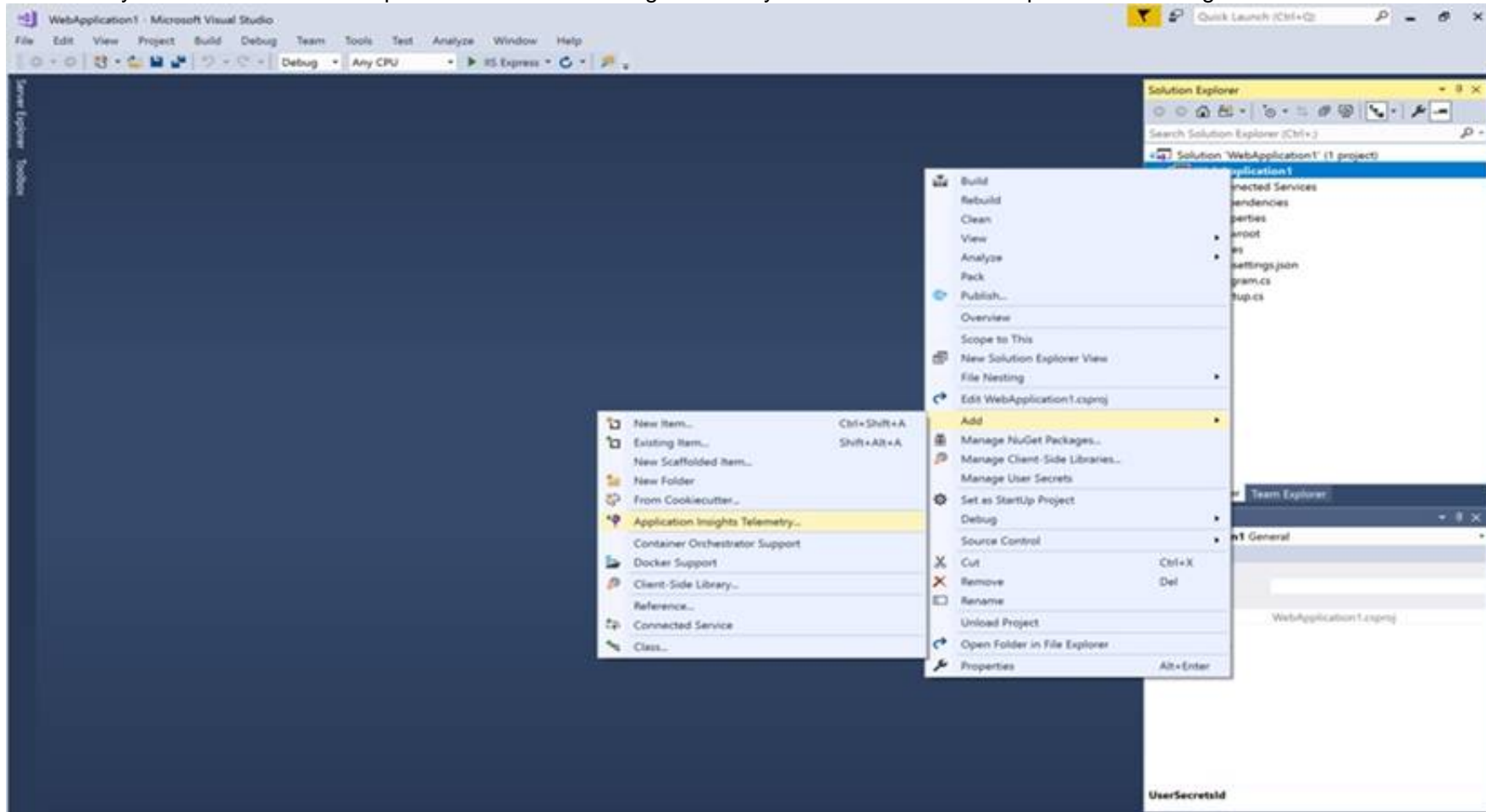
- \* 1. Open Microsoft Azure Portal
- \* 2. Log into your Azure account, Select Create a resource > Developer tools > Application Insights.
- \* 3. Enter the following settings, and then select Review + create. Name: az400-9940427-main





Step 2: Configure App Insights SDK

- \* 1. Open your ASP.NET Core Web App project in Visual Studio > Right-click on the AppName in the Solution Explorer > Select Add > Application Insights Telemetry.
- \* 2. Click the Get Started button
- \* 3. Select your account and subscription > Select the Existing resource you created in the Azure portal > Click Register.



#### NEW QUESTION 139

- (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 140

- (Topic 4)

You are creating a dashboard in Azure Boards.  
You need to visualize the time from when work starts on a work item until the work item is closed.  
Which type of widget should you use?

- A. cycle time
- B. velocity
- C. cumulative flow
- D. lead time

Answer: D

NEW QUESTION 142

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 identity 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 spirt bar between panes or scroll to view content.

NOTE Each correct selection is worth one point.

KPIs

Application failure rates

Bug report rates

Burndown trend

Cycle time

Defect escape rate

Deployment speed

Lead time

Mean time to recover

Answer Area

How long it takes to complete a work item:

The percentage of defects found in production:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

KPIs

Application failure rates

Bug report rates

Burndown trend

Cycle time

Defect escape rate

Deployment speed

Lead time

Mean time to recover

Answer Area

How long it takes to complete a work item: Cycle time

The percentage of defects found in production: Bug report rates

NEW QUESTION 144

- (Topic 4)

You have a GitHub repository that is integrated with Azure Boards Azure Boards has a work item that has the number 715.  
You need to ensure that when you commit source code in GitHub, the work item is updated automatically. What should you include in the commit comments?

- A. @714
- B. =715
- C. the URL of the work item
- D. AB#715

Answer: B

NEW QUESTION 149

DRAG DROP - (Topic 4)

As part of your application build process, you need to deploy a group of resources to Azure by using an Azure Resource Manager template located on GitHub.  
Which three action 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

Create a package.

Add an Azure Resource Group Deployment task.

Create a job agent.

Create a release pipeline.

Set the template parameters.



Answer Area

- A. Mastered  
B. Not Mastered

Answer: A

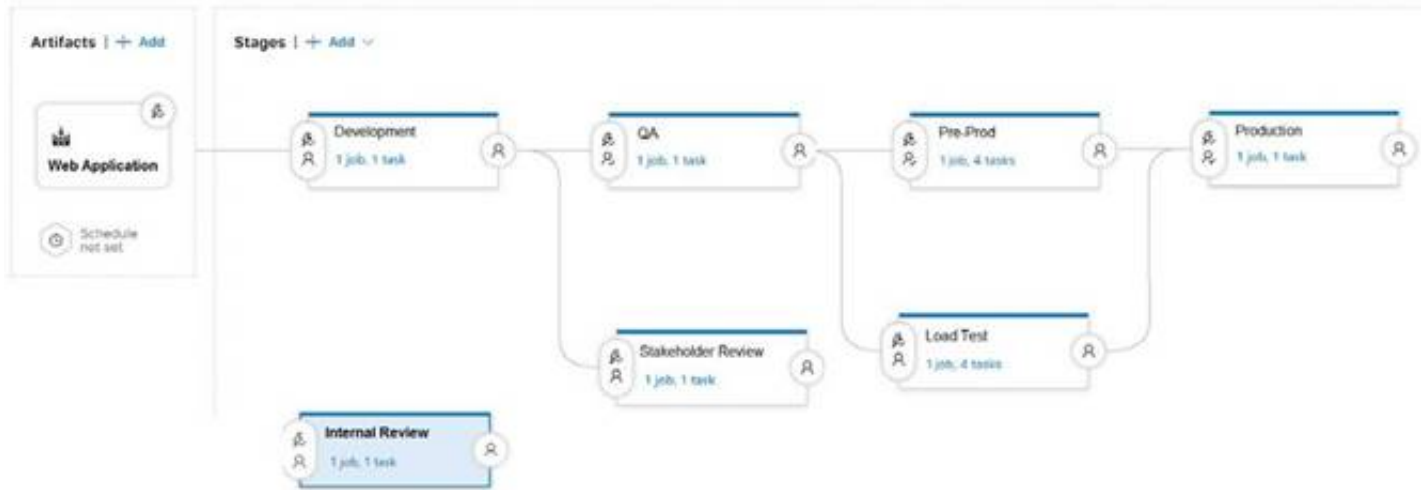
Explanation:

Step 1: Create a release pipeline You need to create a new pipeline.  
You can integrate Azure Resource Manager templates (ARM templates) with Azure Pipelines for continuous integration and continuous deployment (CI/CD).  
Step 2: Add an Azure Resource Group Deployment task Step 3: Set the template parameters

NEW QUESTION 151

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 152

- (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 npm 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 153**

- (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 156**

DRAG DROP - (Topic 4)

Your company plans to deploy an application to the following endpoints:

? Ten virtual machines hosted in Azure

? Ten virtual machines hosted in an on-premises data center environment

All the virtual machines have the Azure Pipelines agent.

You need to implement a release strategy for deploying the application to the endpoints. What should you recommend using to deploy the application to the endpoints? To answer,

drag the appropriate components to the correct endpoints. Each component 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.

Components	Answer Area
A deployment group	
A management group	Ten virtual machines hosted in Azure: <input type="text"/>
A resource group	Ten virtual machines hosted in an on-premises data center environment: <input type="text"/>
Application roles	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: A deployment group

When authoring an Azure Pipelines or TFS Release pipeline, you can specify the deployment targets for a job using a deployment group.

If the target machines are Azure VMs, you can quickly and easily prepare them by installing the Azure Pipelines Agent Azure VM extension on each of the VMs, or by using the Azure Resource Group Deployment task in your release pipeline to create a deployment group dynamically.

Box 2: A deployment group



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

### NEW QUESTION 161

- (Topic 4)

Your company uses cloud-hosted Jenkins for builds.

You need to ensure that Jenkins can retrieve source code from Azure Repos.

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

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

**Answer:** ABE

#### Explanation:

References:

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

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

### NEW QUESTION 163

HOTSPOT - (Topic 4)

You are finalizing a release in GitHub.

You need to apply the following labels to the release:

? Name

? Email

? Release v3.0

? Release date

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

add	-a
commit	-b
push	-c
tag	-m

v3.0

-a
-b
-c
-m

"Release v3.0"

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1; tag

Tagging. Like most VCSs, Get has the ability to tag specific points in a repository's history as being important. Typically, people use this functionality to mark release points (v1.0, v2.0 and so on).

Box 2: -a

Creating an annotated tag in Get is simple. The easiest way is to specify -a when you run the tag command:

Example:

\$ get tag -a v1.4 -m "my version 1.4"

Box 3: -m

### NEW QUESTION 164

- (Topic 4)

You manage source code control and versioning by using GitHub. A large file is committed to a repository accidentally.

You need to reduce the size of the repository. The solution must remove the file from the repository.

What should you use?

- A. bfg
- B. 1fs
- C. gvfs
- D. init

**Answer:** A

### NEW QUESTION 166

DRAG DROP - (Topic 4)

You need to increase the security of your team's development process.

Which type of security tool should you recommend for each stage of the development process? To answer, drag the appropriate security tools to the correct stages. Each security 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.

Security Tools	Answer Area
<div>Penetration testing</div>	Pull request: <div></div>
<div>Static code analysis</div>	Continuous integration: <div></div>
<div>Threat modeling</div>	Continuous delivery: <div></div>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
<https://docs.microsoft.com/en-us/azure/devops/migrate/security-validation-cicd-pipeline?view=azure-devops&viewFallbackFrom=vsts>  
So:  
PR: Static Code Analysis CI: Static Code Analysis CD: PenTest

NEW QUESTION 170

- (Topic 4)  
You configure Azure Application Insights and the shared service plan tier for a web app. You enable Smart Detection. You confirm that standard metrics are visible in the logs, but when you test a failure, you do not receive a Smart Detection notification. What prevents the Smart Detection notification from being sent?

- A. You must restart the web app before Smart Detection is enabled.
- B. Smart Detection uses the first 24 hours to establish the normal behavior of the web app.
- C. You must enable the Snapshot Debugger for the web app.
- D. The web app is configured to use the shared service plan tier.

Answer: B

NEW QUESTION 173

- (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 178

DRAG DROP - (Topic 4)  
You need to find and isolate shared code. The shared code will be maintained in a series of packages. Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
<div>Group the related components.</div>	
<div>Assign ownership to each component group.</div>	
<div>Create a dependency graph for the application.</div>	
<div>Identify the most common language used.</div>	
<div>Rewrite the components in the most common language.</div>	

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Step 1: Create a dependency graph for the application

By linking work items and other objects, you can track related work, dependencies, and changes made over time. All links are defined with a specific link type. For example, you can use Parent/Child links to link work items to support a hierarchical tree structure. Whereas, the Commit and Branch link types support links between work items and commits and branches, respectively.

Step 2: Group the related components.

Packages enable you to share code across your organization: you can compose a large product, develop multiple products based on a common shared framework, or create and share reusable components and libraries.

Step 3: Assign ownership to each component graph References:

<https://docs.microsoft.com/en-us/azure/devops/boards/queries/link-work-items-support-traceability?view=azure-devops&tabs=new-web-form> <https://docs.microsoft.com/en-us/visualstudio/releases/notes/tfs2017-relnotes>

**NEW QUESTION 182**

- (Topic 4)

You use Azure SQL Database Intelligent Insights and Azure Application Insights for monitoring.

You need to write ad-hoc Queries against the monitoring data. Which Query language should you use?

- A. PL/pgSQL
- B. Transact-SQL
- C. Azure Log Analytics
- D. PL/SQL

**Answer: C**

**Explanation:**

Data analysis in Azure SQL Analytics is based on Log Analytics language for your custom querying and reporting.

References: <https://docs.microsoft.com/en-us/azure/azure-monitor/insights/azure-sql>

**NEW QUESTION 186**

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.

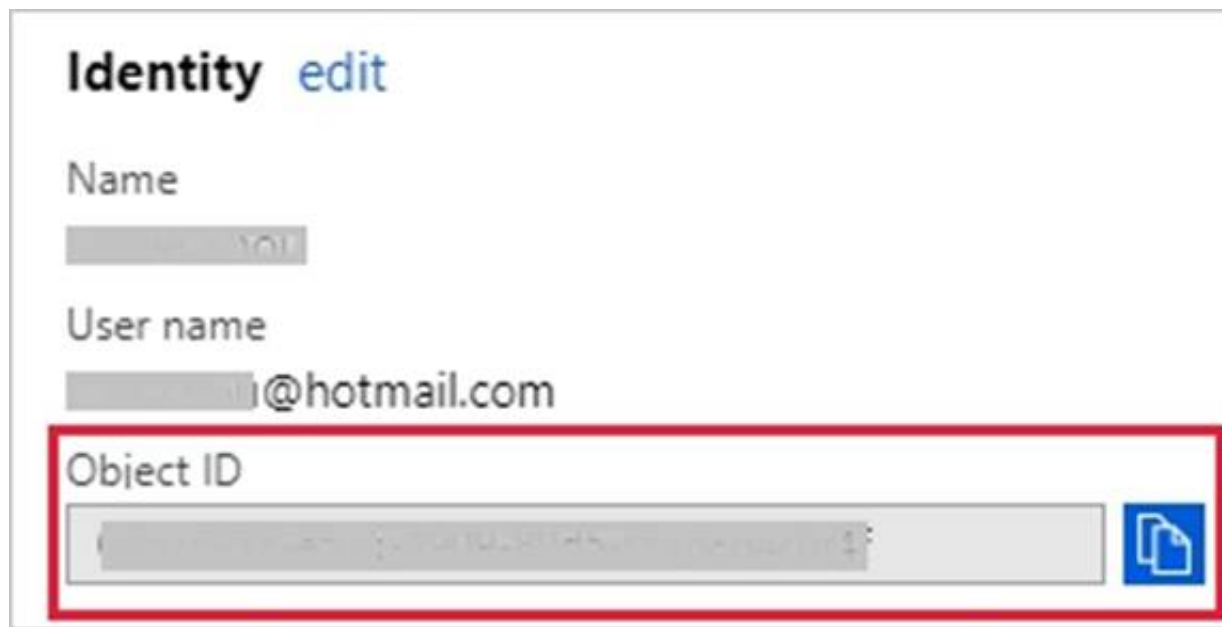
? Click Enter.

? 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 191

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 196

- (Topic 4)

You are designing the development process for your company.

You need to recommend a solution for continuous inspection of the company's code base to locate common code patterns that are known to be problematic.

What should you include in the recommendation?

- A. Microsoft Visual Studio test plans
- B. Gradle wrapper scripts
- C. SonarCloud analysis
- D. the JavaScript task runner

Answer: C

#### Explanation:

SonarCloud is a cloud service offered by SonarSource and based on SonarQube.

SonarQube is a widely

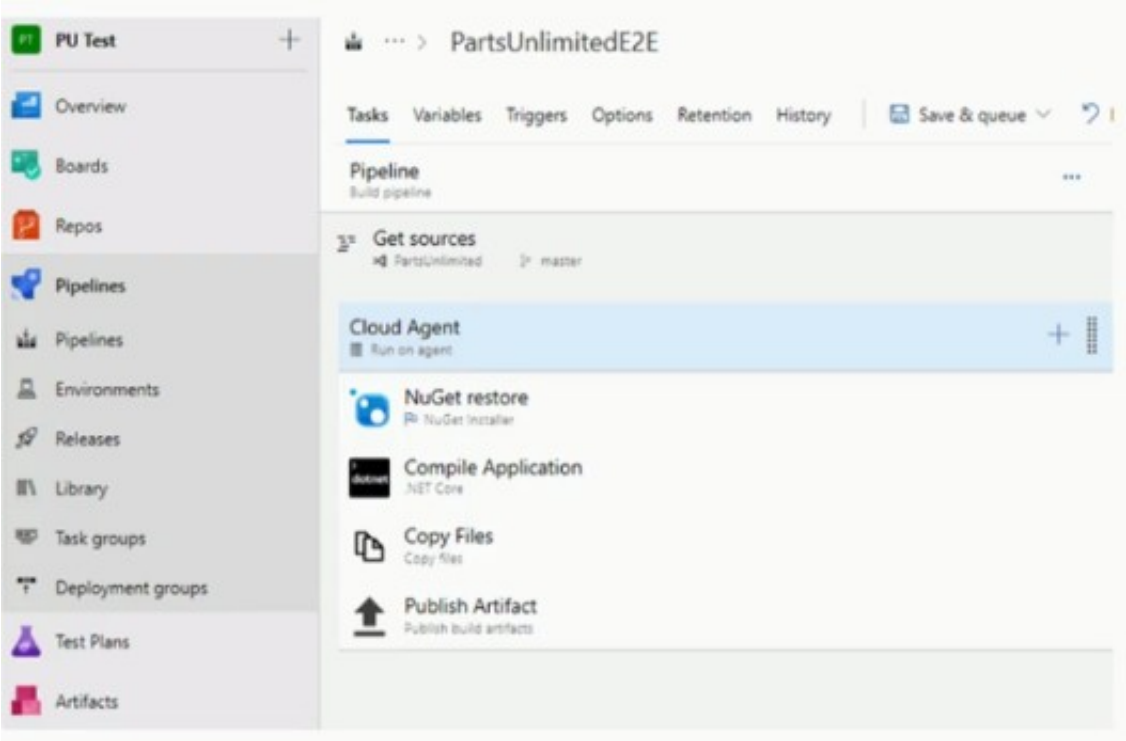
adopted open source platform to inspect continuously the quality of source code and detect bugs, vulnerabilities and code smells in more than 20 different languages.

Note: The SonarCloud Azure DevOps extension brings everything you need to have your projects analyzed on SonarCloud very quickly.

#### NEW QUESTION 200



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 205**

- (Topic 4)  
 You are designing the security validation strategy for a project in Azure DevOps.  
 You need to identify package dependencies that have known security issues and can be resolved by an update.  
 What should you use?

- A. Octopus Deploy
- B. Jenkins
- C. Gradle
- D. SonarQube

**Answer:** D

**Explanation:**

With enterprise level of SonarQube you can use OWASP that runs the security scans for known vulnerabilities. <https://www.sonarqube.org/features/security/>  
[https://www.sonarqube.org/features/security/owasp/?gclid=Cj0KCQiAzZL- BRDnARIsAPCJs70Teq0-efl2Hd\\_h-kykCB7I\\_C7L88Q7kpiuTzuD6Xw1jUb6ZqIP7O0aApVzEALw\\_wcB](https://www.sonarqube.org/features/security/owasp/?gclid=Cj0KCQiAzZL- BRDnARIsAPCJs70Teq0-efl2Hd_h-kykCB7I_C7L88Q7kpiuTzuD6Xw1jUb6ZqIP7O0aApVzEALw_wcB)

**NEW QUESTION 209**

- (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 213**

DRAG DROP - (Topic 4)

You use GitHub Enterprise Server as a source code repository. You create an Azure DevOps organization named Contoso.

In the Contoso organization, you create a project named Project 1.

You need to link GitHub commits, pull requests, and issues to the work items of Project 1. The solution must use OAuth-based authentication

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

Actions	Answer Area
From Project Settings in Azure DevOps, create a service hook subscription.	
From Organization settings in Azure DevOps, add an OAuth configuration.	
From Developer settings in GitHub Enterprise Server, register a new OAuth app.	
From Project Settings in Azure DevOps, add a GitHub connection.	
From Developer settings in GitHub Enterprise Server, generate a private key.	
From Organization settings in Azure DevOps, connect to Azure Active Directory (Azure AD).	

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- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: From Developer settings in GitHub Enterprise Server, register a new OAuth app. If you plan to use OAuth to connect Azure DevOps Services or Azure DevOps Server with your GitHub Enterprise Server, you first need to register the application as an OAuth App

Step 2: Organization settings in Azure DevOps, add an OAuth configuration Register your OAuth configuration in Azure DevOps Services.

Note:

? Sign into the web portal for Azure DevOps Services.

? Add the GitHub Enterprise Oauth configuration to your organization.

? Open Organization settings>Oauth configurations, and choose Add Oauth configuration.

? Fill in the form that appears, and then choose Create.

Step 3: From Project Settings in Azure DevOps, add a GitHub connection. Connect Azure DevOps Services to GitHub Enterprise Server

Choose the Azure DevOps logo to open Projects, and then choose the Azure Boards project you want to configure to connect to your GitHub Enterprise repositories.

Choose (1) Project Settings, choose (2) GitHub connections and then (3) Click here to connect to your GitHub Enterprise organization.

**NEW QUESTION 218**

- (Topic 4)

You plan to use a NuGet package in a project in Azure DevOps. The NuGet package is in a feed that requires authentication.

You need to ensure that the project can restore the NuGet package automatically. What should the project use to automate the authentication?

- A. an Azure Automation account
- B. an Azure Artifacts Credential Provider
- C. an Azure Active Directory (Azure AD) account that has multi-factor authentication (MFA) enabled
- D. an Azure Active Directory (Azure AD) service principal D18912E1457D5D1DDCBD40AB3BF70D5D

**Answer:** B

**Explanation:**

The Azure Artifacts Credential Provider automates the acquisition of credentials needed to restore NuGet

packages as part of your .NET development workflow. It integrates with MSBuild, dotnet, and NuGet(.exe) and works on Windows, Mac, and Linux. Any time you want to use packages from an Azure Artifacts feed, the Credential Provider will automatically acquire and securely store a token on behalf of the NuGet client you're using.

Reference:

<https://github.com/Microsoft/artifacts-credprovider>

**NEW QUESTION 219**

- (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 221**

HOTSPOT - (Topic 4)

Your company has an Azure subscription.

The company requires that all resource group in the subscription have a tag named organization set to a value of Contoso.

You need to implement a policy to meet the tagging requirement.

How should you complete the policy? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
{
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "equals":
            

MicrosoftResources/deployments
MicrosoftResources/subscriptions
MicrosoftResources/subscriptions/resourceGroups


,
        {
          "not": {
            "field": "tags['organization']",
            "equals": "Contoso"
          }
        }
      ]
    },
    "then": {
      "effect":
        

Append
Deny
DeployIfNotExists


,
      "details": [
        {
          "field": "tags['organization']",
          "value": "Contoso"
        }
      ]
    }
  }
}
```

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: " Microsoft.Resources/subscriptions/resourceGroups"

Box 2: "Deny",

Sample - Enforce tag and its value on resource groups

```
},
"policyRule": { "if": {
"allOf": [
{
"field": "type",
"equals": "Microsoft.Resources/subscriptions/resourceGroups"
},
{
"not": {
"field": "[concat('tags[' ,parameters('tagName'), '']]", "equals": "[parameters('tagValue')]"
}
}
]
},
"then": {
```

```
"effect": "deny"
}
}
}
}
```

References:  
<https://docs.microsoft.com/en-us/azure/governance/policy/samples/enforce-tag-on-resource-groups>

NEW QUESTION 225

- (Topic 4)  
Your company creates a new Azure DevOps team. D18912E1457D5D1DDCBD40AB3BF70D5D  
You plan to use Azure DevOps for sprint planning.  
You need to visualize the flow of your work by using an agile methodology. Which Azure DevOps component should you use?

- A. Kanban boards
- B. sprint planning
- C. delivery plans
- D. portfolio backlogs

Answer: A

**Explanation:**  
Customizing Kanban boards  
To maximize a team’s ability to consistently deliver high quality software, Kanban emphasize two main practices. The first, visualize the flow of work, requires you to map your team’s workflow stages and configure your Kanban board to match. Your Kanban board turns your backlog into an interactive signboard, providing a visual flow of work.  
Reference: <https://azuredevopslabs.com/labs/azuredevops/agile/>

NEW QUESTION 226

- (Topic 4)  
You have an Azure subscription that contains multiple Azure pipelines.  
You need to deploy a monitoring solution for the pi\*lines. The solution must meet the following requirements:  
? Parse logs from multiple sources.  
? identify the root cause of issues.  
What advanced feature of a monitoring tool should include in the solution?

- A. directed monitoring
- B. synthetic monitoring
- C. analytics
- D. Alert Management

Answer: B

NEW QUESTION 228

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

Agile

CMMI

Scrum

XP

Answer Area

Litware

Contoso:

A. Datum:



- 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 229**

- (Topic 4)

You have project in Azure DevOps.

You create the following template named Template1.yml.

```
steps:
- script: npm install
- script: yarn install
- script: npm run compile
```

You create the following pipeline named File1.yml.

```
parameters:
usersteps:
- task: MyTask@1
- script: echo Done
```

You need to ensure that Template1.yml runs before File1.yml. How should you update File1.yml?

- A. `parameters: usersteps: extends: template: template1.yml - task: MyTask@1 - script: echo Done`
- B. `extends: template: template1.yml parameters: usersteps: - task: MyTask@1 - script: echo Done`
- C. `parameters: usersteps: - template: template1.yml - task: MyTask@1 - script: echo Done`
- D. `template: template1.yml parameters: usersteps: - task: MyTask@1 - script: echo Done`

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

**Answer:** B

**NEW QUESTION 234**

DRAG DROP - (Topic 4)

You are building an application that has the following assets:

? Source code

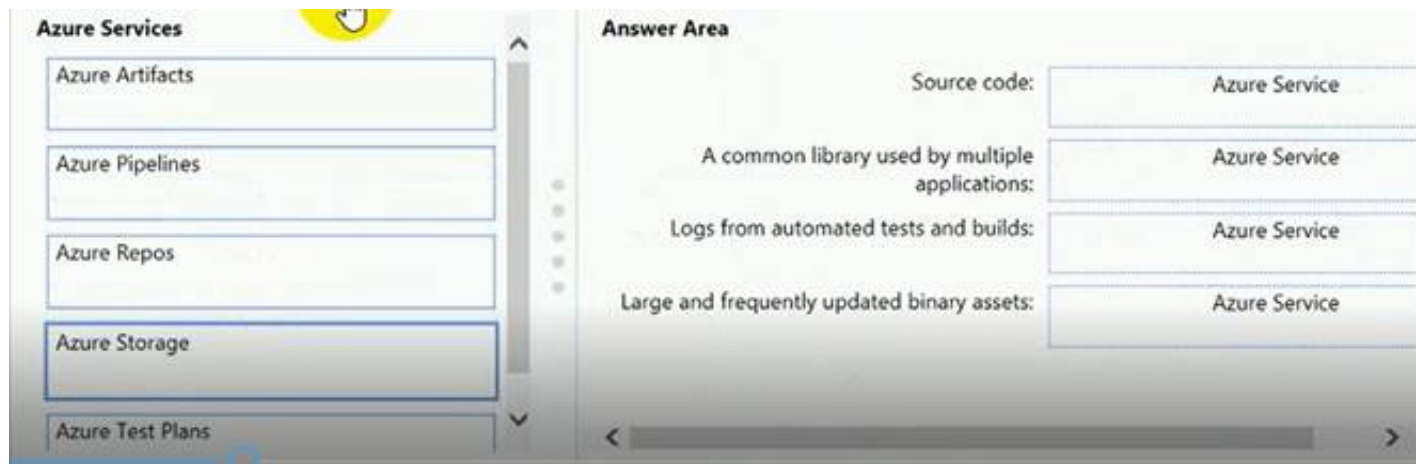
? Logs from automated tests and builds

? Large and frequently updated binary assets

? A common library used by multiple applications

Where should you store each asset? To answer, drag the appropriate Azure services to the correct assets. Each service may be used once. 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: Azure Repos Box 2: Azure Artifacts

Use Azure Artifacts to create, host, and share packages with your team.

Box 3: Azure Pipelines

In the pipeline view you can see all the stages and associated tests. The view provides a summary of the test results

Box 4: Azure Storage

**NEW QUESTION 238**

HOTSPOT - (Topic 4)

Your company is creating a suite of three mobile applications.

You need to control access to the application builds. The solution must be managed at the organization level

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

Groups to control the build access:

		▼
Active Directory groups		
Azure Active Directory groups		
Microsoft Visual Studio App Center distribution groups		

Group type:	▼
Private	
Public	
Shared	

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Microsoft Visual Studio App Center distribution Groups

Distribution Groups are used to control access to releases. A Distribution Group represents a set of users that can be managed jointly and can have common access to releases. Example of Distribution Groups can be teams of users, like the QA Team or External Beta Testers or can represent stages or rings of releases, such as Staging.

Box 2: Shared

Shared distribution groups are private or public distribution groups that are shared across multiple apps in a single organization. Shared distribution groups eliminate the need to replicate distribution groups across multiple apps.

Note: With the Deploy with App Center Task in Visual Studio Team Services, you can deploy your apps from Azure DevOps (formerly known as VSTS) to App Center. By deploying to App Center, you will be able to distribute your builds to your users.

References: <https://docs.microsoft.com/en-us/appcenter/distribution/groups>

**NEW QUESTION 239**

- (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 241

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.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Graphical user interface, text, application, chat or text message Description automatically generated

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: Burn down

Burn down charts focus on remaining work within a specific time period.

#### NEW QUESTION 243

- (Topic 4)

You have an Azure DevOps organization named Contoso, an Azure DevOps project named Project1, an Azure subscription named Sub1, and an Azure key vault named vault1.

You need to ensure that you can reference the values of the secrets stored in vault1 in all the pipelines of Project1. The solution must prevent the values from being stored in the pipelines. What should you do?

- A. Create a variable group in Project1.
- B. Add a secure file to Project1.
- C. Modify the security settings of the pipelines.
- D. Configure the security policy of Contoso.

**Answer:** A

#### Explanation:

Use a variable group to store values that you want to control and make available across multiple pipelines.

References:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/library/variable-groups> <https://docs.microsoft.com/en-us/azure/devops/pipelines/library/variable-groups?view=azure-devops&tabs=yaml#link-secrets-from-an-azure-key-vault>

#### NEW QUESTION 247

- (Topic 4)

You are monitoring the health and performance of an Azure web app by using Azure Application Insights. You need to ensure that an alert is sent when the web app has a sudden rise in performance issues and failures. What should you use?

- A. Application Insights Profiler
- B. Continuous export
- C. Smart Detection
- D. custom events
- E. usage analysis

**Answer:** C

#### Explanation:

Smart Detection automatically warns you of potential performance problems and failure anomalies in your web application. It performs proactive analysis of the telemetry that your app sends to Application Insights. If there is a sudden rise in failure rates, or abnormal patterns in client or server performance, you get an alert.

Reference:

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

#### NEW QUESTION 248

- (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 252**

- (Topic 4)

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

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

You need to restart ACI1 when App1 stops responding. What should you do?

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

**Answer:** A

**Explanation:**

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

**NEW QUESTION 256**

- (Topic 3)

You need to perform the GitHub code migration. The solution must support the planned changes for the DevOps environment.

What should you use?

- A. git clone
- B. GitHub Importer
- C. Import repository in Azure Repos
- D. git-tfs

**Answer:** A

**Explanation:**

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

? Migrate all the source code from TFS1 to GitHub.

The Git-TFS tool is a two-way bridge between Team Foundation Version Control and Git, and can be used to perform a migration.

Reference:

<https://docs.microsoft.com/en-us/devops/develop/git/migrate-from-tfvc-to-git>

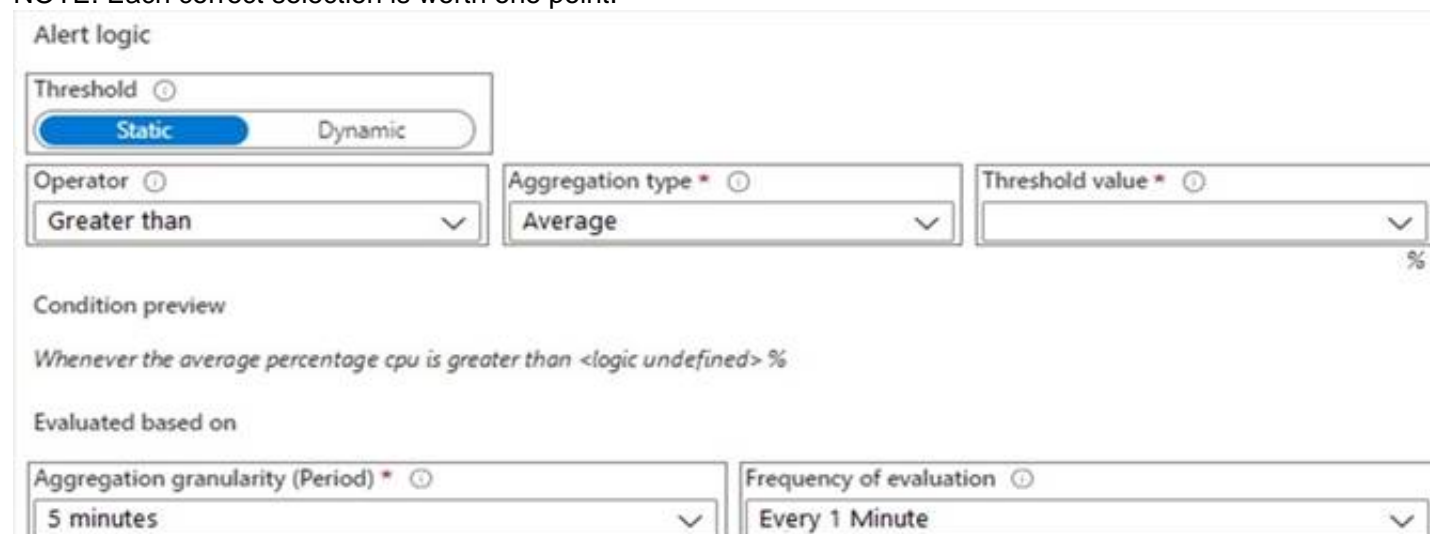
**NEW QUESTION 259**

HOTSPOT - (Topic 3)

You need to configure the alert for VM1. The solution must meet the technical requirements.

Which two settings should you configure? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

**Answer:** A



Explanation:

Setting 1: Threshold value Set to 80 %  
Scenario: An Azure Monitor alert for VM1 must be configured to meet the following requirements:  
? Be triggered when average CPU usage exceeds 80 percent for 15 minutes.  
? Calculate CPU usage averages once every minute.  
Setting 2: Aggregation granularity Set to 15 minutes.

NEW QUESTION 263

HOTSPOT - (Topic 2)  
How should you configure the filters for the Project5 trigger? To answer, select the appropriate option in the answer area.  
NOTE: Each correct selection is worth one point.

Set a

▼

/folder1.

branch filter to exclude

branch filter to include

path filter to exclude

path filter to include

Set a

▼

/.

branch filter to exclude

branch filter to include

path filter to exclude

path filter to include

@

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Project5 will contain a Git repository in Azure Reports and a continuous integration trigger that will initiate a build in response to any change except for changes within /folder1 of the repository.

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

NEW QUESTION 266

- (Topic 2)  
You add the virtual machines as managed nodes in Azure Automation State Configuration. You need to configure the computer in Group7.  
What should you do?

- A. Run the Register-AzureRmAutomationDscNode Azure Powershell cmdlet.
- B. Modify the ConfigurationMode property of the Local Configuration Manager (LCM).
- C. Install PowerShell Core.
- D. Modify the RefreshMode property of the Local Configuration Manager (LCM).

Answer: A

Explanation:

The Register-AzureRmAutomationDscNode cmdlet registers an Azure virtual machine as an APS Desired State Configuration (DSC) node in an Azure Automation account.  
Scenario: The Azure DevOps organization includes: The Docker extension  
A deployment pool named Pool7 that contains 10 Azure virtual machines that run Windows Server 2016

Project 7	Project7 will contain a target deployment group named Group7 that maps to Pool7. Project7 will use Azure Automation State Configuration to maintain the desired state of the computers in Group7.
-----------	---

References: <https://docs.microsoft.com/en-us/powershell/module/azurermsautomation/register-azurermsautomationdscnode>

NEW QUESTION 269

DRAG DROP - (Topic 2)  
You need to implement Project6.  
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the

correct order.

Actions

Open the release pipeline editor.

Open the **Triggers** tab.

Disable the continuous integration trigger.

Enable Gates.

Add a manual intervention task.

Add Query Work Items.

Answer Area

1

2

3

>

<

↑

↓

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario: Implement Project3, Project5, Project6, and Project7 based on the planned changes

Project 6	Project6 will provide support for build and deployment pipelines. Deployment will be allowed only if the number of current work items representing active software bugs is 0.
-----------	---

Step 1: Open the release pipeline editor.  
In the Releases tab of Azure Pipelines, select your release pipeline and choose Edit to open the pipeline editor.  
Step 2: Enable Gates.  
Choose the pre-deployment conditions icon for the Production stage to open the conditions panel. Enable gates by using the switch control in the Gates section.  
Step 3: Add Query Work items.  
Choose + Add and select the Query Work Items gate. Configure the gate by selecting an existing work item query.

Deployment gates ⓘ

+ Add ▾

Query Work Items

Query Work Items ⓘ

Task version 0.\* ▾

Display name \*

Query Work Items

Query \* ⓘ

Active Bugs ▾

Upper threshold \* ⓘ

0

Advanced ^

Lower threshold \* ⓘ

0

Output Variables ^

Reference name ⓘ

Variables list

There are no output variables associated with this task [more information](#)

Evaluation options ▾

Note: A case for release gate is:  
Incident and issues management. Ensure the required status for work items, incidents, and issues. For example, ensure deployment occurs only if no priority zero bugs exist, and validation that there are no active incidents takes place after deployment.  
References:  
<https://docs.microsoft.com/en-us/azure/devops/pipelines/release/deploy-using-approvals?view=azure-devops#configure-gate>

NEW QUESTION 270  
DRAG DROP - (Topic 2)

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You need to recommend a procedure to implement the build agent for Project1.  
Which three actions should you recommend be performed 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

Sign in to Azure DevOps by using an account that is assigned the Administrator service connection security role.

Install the Azure Pipelines agent on on-premises virtual machine.

Create a personal access token in the Azure DevOps organization of Contoso.

Install and register the Azure Pipelines agent on an Azure virtual machine.

Sign in to Azure DevOps by using an account that is assigned the agent pool administrator role.

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario:

Project 1	Project1 will provide support for incremental builds and third-party SDK components
-----------	---

Step 1: Sign in to Azure Develops by using an account that is assigned the Administrator service connection security role.  
Note: Under Agent Phase, click Deploy Service Fabric Application. Click Docker Settings and then click Configure Docker settings. In Registry Credentials Source, select Azure Resource Manager Service Connection. Then select your Azure subscription.  
Step 2: Create a personal access token..  
A personal access token or PAT is required so that a machine can join the pool created with the Agent Pools (read, manage) scope.  
Step 3: Install and register the Azure Pipelines agent on an Azure virtual machine.  
By running a Azure Pipeline agent in the cluster, we make it possible to test any service, regardless of type.  
References:  
<https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-tutorial-deploy-container-app-with-cicd-vsts>  
<https://mohitgoyal.co/2019/01/10/run-azure-devops-private-agents-in-kubernetes-clusters/>

NEW QUESTION 274

HOTSPOT - (Topic 1)

HOTSPOT

You are using PowerShell to administer Azure Log Analytics workspaces. You need to list the available workspaces and their properties.  
How should you complete the command? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

Get-AzResource

Get-AzResourceGroup

Get-AzResourceProvider

-ResourceGroupName

-ResourceId

-ResourceType

Microsoft.OperationalInsights/workspaces - ExpandProperties

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Get-AzResource  
Use the following command to examine the access control mode for all workspaces in the subscription:  
PowerShell  
Get-Az Resource -Resource Type Microsoft. Operational Insights/workspaces -Expand Properties | for each {s.Name + ": " + \$\_.Properties.features.enableLogAccessUsingOnlyResourcePermissions  
Box 2: -Resource Type

NEW QUESTION 277

DRAG DROP - (Topic 2)

You need to implement the code flow strategy for Project2 in Azure DevOps.  
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



Actions

Create a repository

Add a build policy for the fork.

Create a branch.

Add a build policy for the master branch.

Add an application access policy.

Create a fork.

Answer Area

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Actions

Create a repository

Add a build policy for the fork.

Create a branch.

Add a build policy for the master branch.

Add an application access policy.

Create a fork.

Answer Area

Create a repository

Add a build policy for the master branch.

Create a branch.

**NEW QUESTION 280**

HOTSPOT - (Topic 1)

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

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

Required secrets:

Certificate

Personal access token

Shared Access Authorization token

Username and password

Storage location:

Azure Data Lake

Azure Key Vault

Azure Storage with HTTP access

Azure Storage with HTTPS access

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

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

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

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

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

**NEW QUESTION 283**

HOTSPOT - (Topic 1)

How should you complete the code to initialize App Center in the mobile application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection a worth one point.



```
MSAppCenter.start
( "{Your App Secret}",
  withServices:
```

[MSAnalytics.self,	MSAnalytics.self]
[MSDistribute.self,	MSCrashes.self]
[MSPush.self,	MSDistribute.self]

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Scenario: Visual Studio App Center must be used to centralize the reporting of mobile application crashes and device types in use.

In order to use App Center, you need to opt in to the service(s) that you want to use, meaning by default no services are started and you will have to explicitly call each of them when starting the SDK.

Insert the following line to start the SDK in your app's App Delegate class in the didFinishLaunchingWithOptions method.

MSAppCenter.start("{Your App Secret}", withServices: [MSAnalytics.self, MSCrashes.self]) References: <https://docs.microsoft.com/en-us/appcenter/sdk/getting-started/ios>

**NEW QUESTION 288**

- (Topic 1)

You are using GitHub as a source code repository.

You create a client-side Git hook on the commit-msg event. The hook requires that each commit message contain a custom work item tag.

You need to make a commit that does not have a work item tag. Which git commit parameter should you use?

- A. --squash
- B. --no-verify
- C. --message "
- D. --no-post-rewrite

**Answer:** B

**Explanation:**

The commit-msg hook is invoked by git-commit and git-merge, and can be bypassed with the --no-verify option.

Reference:

<https://git-scm.com/docs/githooks>

**NEW QUESTION 291**

- (Topic 1)

Which branching strategy should you recommend for the investment planning applications suite?

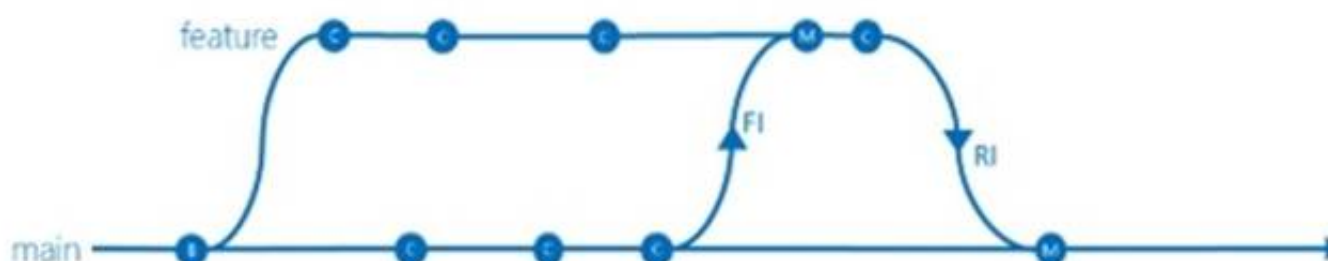
- A. release isolation
- B. main only
- C. development isolation
- D. feature isolation

**Answer:** D

**Explanation:**

Scenario: A branching strategy that supports developing new functionality in isolation must be used.

Feature isolation is a special derivation of the development isolation, allowing you to branch one or more feature branches from main, as shown, or from your dev branches.



When you need to work on a particular feature, it might be a good idea to create a feature branch.

**NEW QUESTION 294**

- (Topic 4)

You have an Azure DevOps organization named Contoso that contains a project named Project 1.

You provision an Azure key vault name Keyvault1.

You need to reference Keyvault1 secrets in a build pipeline of Project1. What should you do first?

- A. Create an XAML build service.
- B. Create a variable group in Project1.
- C. Add a secure file to Project1.

D. Configure the security policy of Contoso.

**Answer:** C

**Explanation:**

Before this will work, the build needs permission to access the Azure Key Vault. This can be added in the Azure Portal. Open the Access Policies in the Key Vault and add a new one. Choose the principle used in the DevOps build.  
 Reference:  
<https://docs.microsoft.com/en-us/azure/devops/pipelines/release/azure-key-vault>

**NEW QUESTION 299**

- (Topic 4)  
 Your company uses GitHub for source control. The company has a team that performs code reviews. You need to automate the assignment of the code reviews. The solution must meet the following requirements:  
 Prioritize the assignment of code reviews to team members who have the fewest outstanding assignments.  
 Ensure that each team member performs an equal number of code reviews in any 30-day period.  
 Prevent the assignment of code reviews to the team leader.  
 Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Clear Never assign certain team members.
- B. Select If assigning team members, don't notify the entire team.
- C. Select Never assign certain team members.
- D. Set Routing algorithm to Round robin.
- E. Set Routing algorithm to Load balance.

**Answer:** AE

**Explanation:**

A: To always skip certain members of the team, select Never assign certain team members. Then, select one or more team members you'd like to always skip. In this case select the team leader.  
 E: The load balance algorithm chooses reviewers based on each member's total number of recent review requests and considers the number of outstanding reviews for each member. The load balance algorithm tries to ensure that each team member reviews an equal number of pull requests in any 30day period.  
 Reference:  
<https://docs.github.com/en/organizations/organizing-members-into-teams/managing-code-review-assignment-for-your-team>

**NEW QUESTION 301**

HOTSPOT - (Topic 4)  
 You are designing YAML-based Azure pipelines for the apps shown in the following table.

Name	Platform	Release requirements
App1	Azure virtual machine	Replace a fixed set of existing instances of the previous version of App1 with instances of the new version of the app in each iteration.
App2	Azure Kubernetes Service (AKS) cluster	Roll out a limited deployment of the new version of App2 to validate the functionality of the app. Once testing is successful, expand the rollout.

You need to configure the YAML strategy value for each app. The solution must minimize app downtime.  
 Which value should you configure for each app? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

App1:

▼

canary

rolling

runonce

App2:

▼

canary

rolling

runonce

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

App1: rolling  
 A rolling deployment replaces instances of the previous version of an application with instances of the new version of the application on a fixed set of virtual

machines (rolling set) in each iteration.

App2: canary

Canary deployment strategy is an advanced deployment strategy that helps mitigate the risk involved in rolling out new versions of applications. By using this strategy, you can roll out the changes to a small subset of servers first. As you gain more confidence in the new version, you can release it to more servers in your infrastructure and route more traffic to it.

#### NEW QUESTION 305

- (Topic 4)

Your company plans to use an agile approach to software development

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

- Provide the ability to isolate the members of efferent project teams into separate communication channels and to keep a history of the chats within those channels.
- Be available on Windows 10, Mac OS, iOS, and Android operating systems.
- Provide the ability to add external contractors and suppliers to projects.
- Integrate directly with Azure DevOps. What should you recommend?

- A. Octopus
- B. Bamboo
- C. Microsoft Project
- D. Slack

**Answer: D**

#### Explanation:

Slack is a popular team collaboration service that helps teams be more productive by keeping all communications in one place and easily searchable from virtually anywhere. All your messages, your files, and everything from Twitter, Dropbox, Google Docs, Azure DevOps, and more all together. Slack also has fully native apps for iOS and Android to give you the full functionality of Slack wherever you go.

Integrated with Azure DevOps

This integration keeps your team informed of activity happening in its Azure DevOps projects. With this integration, code check-ins, pull requests, work item updates, and build events show up directly in your team's Slack channel.

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

<https://marketplace.visualstudio.com/items?itemName=ms-vsts.vss-services-slack>

#### NEW QUESTION 307

- (Topic 4)

You have an Azure DevOps project that uses many package feeds.

You need to simplify the project by using a single feed that stores packages produced by your company and packages consumed from remote feeds. The solution must support public feeds and authenticated feeds.

What should you enable in DevOps?

- A. Universal Packages
- B. views in Azure Artifacts
- C. upstream sources
- D. a symbol server

**Answer: C**

#### NEW QUESTION 312

HOTSPOT - (Topic 4)

You have a virtual machine that runs Windows Server 2019 and is managed by using Desired State Configuration (DSC).

You have the following DSC configuration.

```
configuration WebConfiguration
{
    File WebsiteContent {
        Ensure           = 'Present'
        SourcePath        = 'c:\test\index.htm'
        DestinationPath   = 'c:\inetpub\wwwroot'
        DependsOn         = '[WindowsFeature]Web-Server'
    }

    WindowsFeature Web-Server
    {
        Ensure = 'Present'
        Name   = 'Web-Server'
    }
}
```

You have the following Local Configuration Manager (LCM) configuration.



```
LocalConfigurationManager
{
    ConfigurationMode = "ApplyAndMonitor"
    RefreshFrequencyMins = 30
    ConfigurationModeFrequencyMins = 60
    RefreshMode = 'Push'
}
```

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
The Index.htm file will be copied to the C:\Test folder before the Web-Server Windows feature is installed.	<input type="radio"/>	<input type="radio"/>
If manual changes are made to the configuration of the virtual machine, the configuration will reapply automatically.	<input type="radio"/>	<input type="radio"/>
If the Web-Server Windows feature is uninstalled from the virtual machine, the discrepancy will be reported in a log entry within 60 minutes.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

No "Dependson are defined" No "Mode is Apply and Monitor"

Yes "Configuration Mode FreqMin : 60 "

-----

Configuration Mode Freq Min:How often, in minutes, the current configuration is checked and applied. This property is ignored if the Configuration Mode property is set to Apply Only.

[https://docs.microsoft.com/en-us/powershell/dsc/managing-nodes/metaconfig?view=dsc- 1.1](https://docs.microsoft.com/en-us/powershell/dsc/managing-nodes/metaconfig?view=dsc-1.1)

[https://docs.microsoft.com/en-us/powershell/dsc/configurations/resource-depends- on?view=dsc-1.1](https://docs.microsoft.com/en-us/powershell/dsc/configurations/resource-depends-on?view=dsc-1.1)

**NEW QUESTION 316**

- (Topic 4)

You have a project in Azure DevOps named Project1. Project1 contains a build pipeline named Pipe1 that builds an application named Appl.

You have an agent pool named Pool1 that contains a Windows Server 2019-based self- hosted agent. Pipe1 uses Pool1.

You plan to implement another project named Project2. Project2 will have a build pipeline named Pipe2 that builds an application named App2.

App1 and App2 have conflicting dependencies.

You need to minimize the possibility that the two build pipelines will conflict with each other. The solution must minimize infrastructure costs.

What should you do?

- A. Create two container jobs.  
B. Change the self-hosted agent to use Red Hat Enterprise Linux (RHEL) 9.  
C. Add another self-hosted agent  
D. Add a Docker Compose task to the build pipelines.

**Answer:** A

**NEW QUESTION 319**

- (Topic 4)

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
Feed1	Azure Artifacts feed
Project1	Project in Azure DevOps

Project1 produces 9pm packages that are published to Feed1. Feed1 is consumed by multiple projects.

You need to ensure that only tested packages are available for consumption. The solution must minimize development effort.

What should you do?

- A. Create a feed view named @defaul  
B. After the 9pm packages test successfully, configure a release pipeline that tags the packages as release.  
C. Create a feed view named @release and set @release as the default vie  
D. After the9pm packages test successfully, configure a release pipeline that tags the packages as release.  
E. Create a feed view named @release and set @release as the default view After the 9pm packages test successfully, configure a release pipeline that promotes a package to the @release view.  
F. Create a feed view named @defaul



G. After the 9pm packages test successfully, configure a release pipeline that promotes a package to the @default view.

**Answer: C**

**Explanation:**

By creating a feed view named "release" and setting it as the default view, packages that are published to the feed will not be immediately available for consumption. After the 9pm packages are tested successfully, you can configure a release pipeline that promotes a package to the @release view. This ensures that only tested packages are available for consumption and minimizes development effort as it doesn't require any additional steps to be taken by the consumer of the feed.

Reference:

Azure DevOps Docs: Create a feed and views <https://docs.microsoft.com/en-us/azure/devops/artifacts/feeds/create-feed?view=azure-devops>

Azure DevOps Docs: Promote a package <https://docs.microsoft.com/en-us/azure/devops/artifacts/feeds/promote-package?view=azure-devops>

**NEW QUESTION 323**

- (Topic 4)

You have an Azure subscription that contains multiple Azure services. You need to send an SMS alert when scheduled maintenance is planned for the Azure services. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create an Azure Service Health alert.
- B. Enable Azure Security Center.
- C. Create and configure an action group
- D. Create and configure an Azure Monitor alert rule

**Answer: AD**

**NEW QUESTION 324**

HOTSPOT - (Topic 4)

Your company uses Git as a source code control system for a complex app named App1. You plan to add a new functionality to App1.

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

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

NOTE: Each correct selection is worth one point.

Branch lifetime:

	▼
Long-lived	
Short-lived	

Branch type:

	▼
Master	
Feature	
Integration	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Branch lifetime: Short-lived

Branch type: Feature

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

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

**NEW QUESTION 329**

- (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 test coverage.

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 330**  
DRAG DROP - (Topic 4)  
You use Azure Pipelines to automate Continuous Integration/Continuous Deployment (CI/CD) for an Azure web app named WebApp1.  
You configure an Azure Monitor alert that is triggered when WebApp1 generates an error. You need to configure the alert to forward details of the error to a third-party system. The solution must minimize administrative effort.  
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Select the Recurrence trigger.

Create an Azure event hub.

Create an Azure logic app.

Select the HTTP request trigger.

Update the action group in Azure Monitor.

Select the Sliding Window trigger.

Answer Area

<

>

⬆

⬇

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Graphical user interface, text, application  
Description automatically generated  
Box 1: Create an Azure logic app.  
Box 2: Select the HTTP request trigger.  
Box 3: Updated the action group in Azure Monitor.

**NEW QUESTION 331**  
- (Topic 4)  
You have a GitHub repository.  
You create a new repository in Azure DevOps.  
You need to recommend a procedure to clone the repository from GitHub to Azure DevOps.  
What should you recommend?

- A. Create a pull request.
- B. Create a webhook.
- C. Create a service connection for GitHub.
- D. From Import a Git repository, click Import.
- E. Create a personal access token in Azure DevOps.

Answer: D

**Explanation:**  
You can import an existing Git repo from GitHub, Bitbucket, GitLab, or other location into a new or empty existing repo in your project in Azure DevOps.  
Import into a new repo  
? Select Repos, Files.  
? From the repo drop-down, select Import repository.  
? If the source repo is publicly available, just enter the clone URL of the source repository and a name for your new Git repository.  
References:  
<https://docs.microsoft.com/en-us/azure/devops/repos/git/import-git-repository?view=azure-devops>

**NEW QUESTION 332**  
.....

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