

# Microsoft.AZ-400.v2023-08-10.q165

<b>Exam Code:</b>	AZ-400
<b>Exam Name:</b>	Designing and Implementing Microsoft DevOps Solutions
<b>Certification Provider:</b>	Microsoft
<b>Free Question Number:</b>	165
<b>Version:</b>	v2023-08-10
<b># of views:</b>	1310
<b># of Questions views:</b>	1650
<a href="https://www.freepdfdumps.com/Microsoft.AZ-400.v2023-08-10.q165.html">https://www.freepdfdumps.com/Microsoft.AZ-400.v2023-08-10.q165.html</a>	

## NEW QUESTION: 1

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

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

**Answer: C** ([LEAVE A REPLY](#))

## NEW QUESTION: 2

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.

**Answer:**

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: 3

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

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

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

What should you add to the commit message?

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

**Answer: A ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 4**

You need to use Azure Automation State Configuration to manage the ongoing consistency of virtual machine configurations.

Which five 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the orders you select.

#### **Answer:**

Explanation

Step 1: Assign the node configuration.

You create a simple DSC configuration that ensures either the presence or absence of the Web-Server Windows Feature (IIS), depending on how you assign nodes.

Step 2: Upload a configuration to Azure Automation State Configuration.

You import the configuration into the Automation account.

Step 3: Compiling a configuration into a node configuration

Compiling a configuration in Azure Automation

Before you can apply a desired state to a node, a DSC configuration defining that state must be compiled into one or more node configurations (MOF document), and placed on the Automation DSC Pull Server.

Step 4: Onboard the virtual machines to Azure State Configuration

Onboarding an Azure VM for management with Azure Automation State Configuration Step 5:

Check the compliance status of the node.

Viewing reports for managed nodes. Each time Azure Automation State Configuration performs a consistency check on a managed node, the node sends a status report back to the pull server.

You can view these reports on the page for that node.

On the blade for an individual report, you can see the following status information for the corresponding consistency check:

The report status - whether the node is "Compliant", the configuration "Failed", or the node is "Not Compliant" (when the node is in Apply and Monitor mode and the machine is not in the desired state).

References: <https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started>

**NEW QUESTION: 5**

Your company has an Azure DevOps project that produces Node Package Manager (npm) packages. Multiple projects consume the packages.

You need to minimize the amount of disk space used by older packages in Azure Artifacts.

What should you modify?

- A. the retention settings of the project's pipeline
- B. the retention settings of the project's release
- C. the retention settings of the project's tests
- D. the retention settings of the company pipeline

**Answer: B** ([LEAVE A REPLY](#))

Explanation

To minimize the amount of disk space used by older packages in Azure Artifacts, you should modify the retention settings of the project's release. This can be done by navigating to the project's release settings and adjusting the retention policy. For more information, please refer to the Microsoft documentation.

**NEW QUESTION: 6**

Your company uses Azure DevOps for the build pipelines and deployment pipelines of Java based projects.

You need to recommend a strategy for managing technical debt.

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

- A. Integrate Azure DevOps and SonarQube.
- B. Integrates Azure DevelOPs and Azure DevTest Labs.
- C. Configure pre-deployment approvals in the deployment pipeline.
- D. Configure post-deployment approvals in the deployment pipeline.

**Answer: A,D** ([LEAVE A REPLY](#))

**NEW QUESTION: 7**

You use Azure Pipelines to manage the build and deployment of apps.

You are planning the release strategies for a new app. You need to choose strategies for the following scenarios:

- \* Releases will be made available to users who are grouped by their tolerance for software faults.
- \* Code will be deployed to enable functionality that will be available in later releases of the app.
- \* When a new release occurs, the existing deployment will remain active to minimize recovery time if a return to the previous version is required.

**Answer:**

Explanation

Box 1: Progressive exposure

Continuous Delivery may sequence multiple deployment "rings" for progressive exposure (also known as "controlling the blast radius"). Progressive exposure groups users who get to try new releases to monitor their experience in "rings." The first deployment ring is often a "canary" used to test new versions in production before a broader rollout. CD automates deployment from one ring to the next and may optionally depend on an approval step, in which a decision maker signs off on the changes electronically. CD may create an auditable record of the approval in order to satisfy regulatory procedures or other control objectives.

#### Box 2: Feature flags

Feature flags support a customer-first DevOps mindset, to enable (expose) and disable (hide) features in a solution, even before they are complete and ready for release.

#### Box 3: Blue/green

Blue/green deployments which means that instead of replacing the previous version (here we refer to this version as blue), we bring up the new version (here referred to as the green version) next to the existing version, but not expose it to the actual users right away. On the condition of having successfully validated that the green version works correctly, we will promote this version to the public version by changing the routing configuration without downtime. If something is wrong with the green version we can revert back without users every noticing interruptions.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/learn/what-is-continuous-delivery>

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

<https://medium.com/@denniszielke/continuous-kubernetes-blue-green-deployments-on-azure-using-nginx-appga>

### **NEW QUESTION: 8**

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 (LEAVE A REPLY)**

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: 9**

You use a Git repository in Azure Repos to manage the source code of a web application.

Developers commit changes directly to the master branch.

You need to implement a change management procedure that meets the following requirements:

The master branch must be protected, and new changes must be built in the feature branches first.

Changes must be reviewed and approved by at least one release manager before each merge.

Changes must be brought into the master branch by using pull requests.

What should you configure in Azure Repos?

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- A. branch policies of the master branch
- B. Services in Project Settings
- C. Deployment pools in Project Settings
- D. branch security of the master branch

**Answer: A (LEAVE A REPLY)**

Explanation

Branch policies help teams protect their important branches of development. Policies enforce your team's code quality and change management standards.

Reference:

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

### **NEW QUESTION: 10**

You need to configure a virtual machine named VM1 to securely access stored secrets in an Azure Key Vault named az400-11566895-kv.

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

**Answer:**

See solution below.

Explanation

You can use a system-assigned managed identity for a Windows virtual machine (VM) to access Azure Key Vault.

Sign in to Azure portal

Locate virtual machine VM1.

Select Identity

Enable the system-assigned identity for VM1 by setting the Status to On.

Note: Enabling a system-assigned managed identity is a one-click experience. You can either enable it during the creation of a VM or in the properties of an existing VM.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/tutorial-windows-vm>

**NEW QUESTION: 11**

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.

**Answer:**

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: 12**

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.

**Answer:**

See solution below.

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.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/automatic-tuning-enable>

### NEW QUESTION: 13

You have a build pipeline in Azure Pipelines that occasionally fails.

You discover that a test measuring the response time of an API endpoint causes the failures.

You need to prevent the build pipeline from failing due to The test.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point

- A. Enable Test Impact Analysis (TIA).
- B. Enable test slicing.
- C. Clear Flaky tests included in test pass percentage
- D. Set Flaky test detection to Off
- E. Manually mark the test as flaky.

**Answer: C,E (LEAVE A REPLY)**

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/test/flaky-test-management>

### NEW QUESTION: 14

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. SourceGear Vault
- B. Jenkins
- C. Microsoft Visual SourceSafe
- D. WhiteSource Bolt

**Answer: D (LEAVE A REPLY)**

Explanation

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

Note: WhiteSource is the leader in continuous open source software security and compliance management.

WhiteSource integrates into your build process, irrespective of your programming languages, build tools, or development environments. It works automatically, continuously, and silently in the background, checking the security, licensing, and quality of your open source components against WhiteSource constantly-updated denitive database of open source repositories.

Reference:

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

### NEW QUESTION: 15

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 Microsoft-hosted agent pool running a Linux image. Include the Java Tool Installer task in the build pipeline.

Does this meet the goal?

A. Yes

B. No

**Answer:** ([SHOW ANSWER](#))

Explanation

To run your jobs, you'll need at least one agent. A Linux agent can build and deploy different kinds of apps, including Java and Android apps.

If your pipelines are in Azure Pipelines and a Microsoft-hosted agent meets your needs, you can skip setting up a private Linux agent.

The Azure Pipelines agent pool offers several virtual machine images to choose from, each including a broad range of tools and software. We support Ubuntu, Red Hat, and CentOS.

Reference:

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

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

### NEW QUESTION: 16

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

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.

**Answer:**

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.

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#### **NEW QUESTION: 17**

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

**Answer: D** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 18**

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

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

You need to restart ACM1 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** ([LEAVE A REPLY](#))

Explanation

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

### NEW QUESTION: 19

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

Project1 produces 9pm packages that are published to Feed 1. 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 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.
- B. Create a feed view named @release and set @release as the default view. After the 9pm packages test successfully, configure a release pipeline that tags the packages as release.
- C. Create a feed view named @default. After the 9pm packages test successfully, configure a release pipeline that promotes a package to the @default view.
- D. Create a feed view named @default. After the 9pm packages test successfully. configure a release pipeline that tags the packages as release.

**Answer: B ([LEAVE A REPLY](#))**

### NEW QUESTION: 20

You configure an Azure Application Insights availability test.

You need to notify the customer services department at your company by email when availability is degraded.

You create an Azure logic app that will handle the email and follow up actions.

Which type of trigger should you use to invoke the logic app?

- A. an ApiConnection trigger
- B. a Request trigger
- C. an HTTPWebhook trigger
- D. an HTTP trigger

**Answer: ([SHOW ANSWER](#))**

Explanation

You can use webhooks to route an Azure alert notification to other systems for post-processing or custom actions. You can use a webhook on an alert to route it to services that send SMS messages, to log bugs, to notify a team via chat or messaging services, or for various other actions.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-webhooks>

### NEW QUESTION: 21

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You use Azure Pipelines to build and test a React.js application.

You have a pipeline that has a single job.

You discover that installing JavaScript packages from 9pm takes approximately five minutes each time you run the pipeline.

You need to recommend a solution to reduce the pipeline execution time.

Solution: You recommend using pipeline artifacts.

Does this meet the goal?

A. Yes

B. No

**Answer: B (LEAVE A REPLY)**

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: 22**

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.

**Answer:**

Explanation

Box 1: A key Vault advanced access policy

Box 2: RBAC

Management plane access control uses RBAC.

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

Creating or deleting a key vault.

Getting a list of vaults in a subscription.

Retrieving Key Vault properties (such as SKU and tags).

Setting Key Vault access policies that control user and application access to keys and secrets.

References:

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

**NEW QUESTION: 23**

You have an Azure solution that contains a build pipeline in Azure Pipelines. You experience intermittent delays before the build pipeline starts. You need to reduce the time it takes to start the build pipeline. What should you do?

- A. Split the build pipeline into multiple stages.
- B. Purchase an additional parallel job.
- C. Create a new agent pool.
- D. Enable self-hosted build agents.

**Answer: (SHOW ANSWER)**

Explanation

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

**NEW QUESTION: 24**

You have a pipeline named Pipeline1 in Azure Pipelines.

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

Which type of service connection should you create?

- A. Azure Kubernetes Service (AKS)
- B. Azure Service Fabric
- C. a Docker host
- D. a Docker registry

**Answer: D (LEAVE A REPLY)**

### NEW QUESTION: 25

You manage build and release pipelines by using Azure DevOps. Your entire managed environment resides in Azure.

You need to configure a service endpoint for accessing Azure Key Vault secrets. The solution must meet the following requirements:

Ensure that the secrets are retrieved by Azure DevOps.

Avoid persisting credentials and tokens in Azure DevOps.

How should you configure the service endpoint? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer:

Explanation

Box 1: Azure Pipelines service connection

Box 2: Managed Service Identity Authentication

The managed identities for Azure resources feature in Azure Active Directory (Azure AD) provides Azure services with an automatically managed identity in Azure AD. You can use the identity to authenticate to any service that supports Azure AD authentication, including Key Vault, without any credentials in your code.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/deploy/azure-key-vault>

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

### NEW QUESTION: 26

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 (LEAVE A REPLY)**

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: 27

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. No

B. Yes

**Answer: B** ([LEAVE A REPLY](#))

### NEW QUESTION: 28

You are configuring Azure DevOps build pipelines.

You plan to use hosted build agents.

Which build agent pool should you use to compile each application type? To answer, drag the appropriate build agent pools to the correct application types. Each build agent pool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation

Box 1: Hosted macOS

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

Box 2: Hosted

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

### NEW QUESTION: 29

You need to configure GitHub to use Azure Active Directory (Azure AD) for authentication. What should you do first?

A. Create a conditional access policy in Azure AD.

- B. Modify the Security settings of the GitHub organization.
- C. Create an Azure Active Directory B2C (Azure AD B2C) tenant.
- D. Register GitHub in Azure AD.

**Answer:** ([SHOW ANSWER](#))

Explanation

When you connect to a Git repository from your Git client for the first time, the credential manager prompts for credentials. Provide your Microsoft account or Azure AD credentials.

Note: Git Credential Managers simplify authentication with your Azure Repos Git repositories.

Credential managers let you use the same credentials that you use for the Azure DevOps Services web portal. Credential managers support multi-factor authentication through Microsoft account or Azure Active Directory (Azure AD). Besides supporting multi-factor authentication with Azure Repos, credential managers also support two-factor authentication with GitHub repositories.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/repos/git/set-up-credential-managers>

#### **NEW QUESTION: 30**

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

**Answer:**

Explanation

#### **NEW QUESTION: 31**

You are creating a build pipeline in Azure Pipelines.

You define several tests that might fail due to third-party applications.

You need to ensure that the build pipeline completes successfully if the third-party applications are unavailable.

What should you do?

- A. Configure flaky tests
- B. Configure the build pipeline to use parallel jobs
- C. Add the Requirements quality widget to your dashboard
- D. Increase the test pass percentage

**Answer:** ([SHOW ANSWER](#))

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### NEW QUESTION: 32

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You manage a project in Azure DevOps.

You need to prevent the configuration of the project from changing over time.

Solution: Implement Continuous Assurance for the project.

Does this meet the goal?

A. Yes

B. No

**Answer: (SHOW ANSWER)**

Explanation

The basic idea behind Continuous Assurance (CA) is to setup the ability to check for "drift" from what is considered a secure snapshot of a system. Support for Continuous Assurance lets us treat security truly as a

'state' as opposed to a 'point in time' achievement. This is particularly important in today's context when

'continuous change' has become a norm.

There can be two types of drift:

Drift involving 'baseline' configuration: This involves settings that have a fixed number of possible states (often pre-defined/statically determined ones). For instance, a SQL DB can have TDE encryption turned ON or OFF...or a Storage Account may have auditing turned ON however the log retention period may be less than 365 days.

Drift involving 'stateful' configuration: There are settings which cannot be constrained within a finite set of well-known states. For instance, the IP addresses configured to have access to a SQL DB can be any (arbitrary) set of IP addresses. In such scenarios, usually human judgment is initially required to determine whether a particular configuration should be considered 'secure' or not. However, once that is done, it is important to ensure that there is no "stateful drift" from the attested configuration. (E.g., if, in a troubleshooting session, someone adds the IP address of a developer machine to the list, the Continuous Assurance feature should be able to identify the drift and generate notifications/alerts or even trigger 'auto-remediation' depending on the severity of the change).

Reference:

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

### NEW QUESTION: 33

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

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

Two resource groups

Four Azure virtual machines in one resource group

Two Azure SQL databases in other resource group

You need to recommend a solution to deploy the resources.

Solution: Create a main template that has two linked templates, each of which will deploy the resource in its respective group.

Does this meet the goal?

A. Yes

B. No

**Answer: A ([LEAVE A REPLY](#))**

Explanation

To deploy your solution, you can use either a single template or a main template with many related templates.

The related template can be either a separate file that is linked to from the main template, or a template that is nested within the main template.

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

### NEW QUESTION: 34

Your company develops an app for OS. All users of the app have devices that are members of a private distribution group in Microsoft Visual Studio App Center.

You plan to distribute a new release of the app.

You need to identify which certificate file you require to distribute the new release from App Center.

Which file type should you upload to App Center?

A. .cer

B. .pvk

C. .pfx

D. .p12

**Answer: ([SHOW ANSWER](#))**

Explanation

A successful IOS device build will produce an ipa file. In order to install the build on a device, it needs to be signed with a valid provisioning profile and certificate. To sign the builds produced

from a branch, enable code signing in the configuration pane and upload a provisioning profile (.mobileprovision) and a valid certificate (.p12), along with the password for the certificate.

References:

<https://docs.microsoft.com/en-us/appcenter/build/xamarin/ios/>

### **NEW QUESTION: 35**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

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

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

You discover that deployments only if the approvals take longer than two hours.

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

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

Does this meet the goal?

**A.** NO

**B.** Yes

**Answer: A** ([LEAVE A REPLY](#))

### **NEW QUESTION: 36**

You have a project in Azure DevOps.

You create the following template named Template1.yml.

You create the following pipeline named File1.yml.

You need to ensure that Template1.yml runs before File1.yml.

How should you update File1.yml?

**A.** Option A

**B.** Option B

**C.** Option D

**D.** Option C

**Answer: (**[SHOW ANSWER](#)**)**

### **NEW QUESTION: 37**

You need to create and configure an Azure Storage account named az400lod11566895stor in a resource group named RG1lod11566895 to store the boot diagnostics for a virtual machine named VM1.

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

**Answer:**

See solution below.

Explanation

Step 1: To create a general-purpose v2 storage account in the Azure portal, follow these steps:  
On the Azure portal menu, select All services. In the list of resources, type Storage Accounts. As you begin typing, the list filters based on your input. Select Storage Accounts.

On the Storage Accounts window that appears, choose Add.

Select the subscription in which to create the storage account.

Under the Resource group field, select RG1lod11566895

Next, enter a name for your storage account named: az400lod11566895stor Select Create.

Step 2: Enable boot diagnostics on existing virtual machine

To enable Boot diagnostics on an existing virtual machine, follow these steps:

1. Sign in to the Azure portal, and then select the virtual machine VM1.
2. In the Support + troubleshooting section, select Boot diagnostics, then select the Settings tab.
3. In Boot diagnostics settings, change the status to On, and from the Storage account drop-down list, select the storage account az400lod11566895stor.
4. Save the change.

You must restart the virtual machine for the change to take effect.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-create>

<https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/boot-diagnostics>

### **NEW QUESTION: 38**

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 (LEAVE A REPLY)**

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: 39**

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.

**Answer:**

Explanation

<https://docs.microsoft.com/en-us/azure/devops/migrate/security-validation-cicd-pipeline?view=azure-devops&vi> So:

PR: Static Code Analysis

CI: Static Code Analysis

CD: PenTest

**NEW QUESTION: 40**

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

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

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

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

**Answer: A (LEAVE A REPLY)**

Explanation

ENABLE DIAGNOSTICS TO LOG ANALYTICS

This configuration is done PER DATABASE

1. Click on Diagnostics Settings and then Turn On Diagnostics

Graphical user interface, text Description automatically generated

2. Select to Send to Log Analytics and select the Log Analytics workspace. For this sample I will selected only Errors Graphical user interface Description automatically generated with medium confidence

Reference:

<https://techcommunity.microsoft.com/t5/azure-database-support-blog/azure-sql-db-and-log-analytics-better-toget>

**NEW QUESTION: 41**

You have a project in Azure DevOps named Project1 that references an Azure Artifacts feed named Feed1.

You have a package named Package1 that has the versions shown in the following table.

You need to perform a build of Project1. Which version of Package1 will be used?

- A. 2.3.1
- B. 2.0.0

C. 1.4.0

D. 1.0.3

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 42**

Your company is building a new web application.

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

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

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

Which access levels in Azure DevOps should you identify? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point.

**Answer:**

Explanation

Box 1: Basic

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

Box 2: Stakeholder

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

Note:

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

Basic: provides access to most features

VS Enterprise: provides access to premium features

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

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

**NEW QUESTION: 43**

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

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

**Answer:**

Explanation

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

Step 2: Run the Import-AzureRmAutomationDscConfiguration Azure Powershell cmdlet The Import-AzureRmAutomationDscConfiguration cmdlet imports an APS Desired State Configuration (DSC) configuration into Azure Automation. Specify the path of an APS script that contains a single DSC configuration.

Example:

```
PS C:\>Import-AzureRmAutomationDscConfiguration -AutomationAccountName
```

```
"Contoso17"-ResourceGroupName "ResourceGroup01" -SourcePath "C:\DSC\client.ps1" -Force
```

This command imports the DSC configuration in the file named client.ps1 into the Automation account named Contoso17. The command specifies the Force parameter. If there is an existing DSC configuration, this command replaces it.

Step 3: Run the Start-AzureRmAutomationDscCompilationJob Azure Powershell cmdlet The Start-AzureRmAutomationDscCompilationJob cmdlet compiles an APS Desired State Configuration (DSC) configuration in Azure Automation.

References:

<https://docs.microsoft.com/en-us/powershell/module/azurermsautomation/import-azurermsautomationdscconfiguration>

<https://docs.microsoft.com/en-us/powershell/module/azurermsautomation/start-azurermsautomationdsccompilationjob>

#### **NEW QUESTION: 44**

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 (LEAVE A REPLY)**

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: 45**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result these questions will not appear in the review screen.

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

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

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

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

Solution: From Pre-deployment conditions, you modify the Timeout setting for pre-deployment approvals.

Does this meet the goal?

A. Yes

B. No

**Answer: B (LEAVE A REPLY)**

Explanation

Use a gate instead of an approval instead.

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

#### **NEW QUESTION: 46**

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 2016.

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. Deployment YAML and Azure pipeline stage templates

B. Azure Resource Manager templates and the Custom Script Extension for Windows

C. Azure Resource Manager templates and the PowerShell Desired State Configuration (DSC) extension for Windows

D. Deployment YAML and Azure pipeline deployment groups

**Answer: C (LEAVE A REPLY)**

Explanation

The Custom Script Extension downloads and executes scripts on Azure virtual machines. This extension is useful for post deployment configuration, software installation, or any other configuration or management tasks. Scripts can be downloaded from Azure storage or GitHub, or provided to the Azure portal at extension run time. The Custom Script Extension integrates with Azure Resource Manager templates, and can be run using the Azure CLI, PowerShell, Azure portal, or the Azure Virtual Machine REST API.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/custom-script-windows>

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#### **NEW QUESTION: 47**

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

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

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

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

NOTE: Each correct selection is worth one point.

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

**Answer: B,D (LEAVE A REPLY)**

#### **NEW QUESTION: 48**

You plan to create a GitHub workflow that will use GitHub Actions. The actions will require a 256-KB secret.

You need to recommend a solution to store and encrypt the secret. The secret value must be accessible only to the workflow. The solution must minimize administrative effort What should you recommend?

- A. Store the secret in the organization-level GitHub secrets.
- B. Store the secret in the repository-level GitHub secrets.
- C. Encrypt the secret value and store the value in the repository. Store the decryption key in the repository-level GitHub secrets.
- D. Encrypt the secret value and store the value in the repository. Store the decryption key in the organization-level GitHub secrets.

**Answer: C (LEAVE A REPLY)**

Explanation

<https://docs.github.com/en/actions/security-guides/encrypted-secrets> "To use secrets that are larger than 48 KB, you can use a workaround to store encrypted secrets in your repository and save the decryption passphrase as a secret on GitHub." Because it requires less administrative privilege it's at repository level

### NEW QUESTION: 49

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

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

How should you configure the deployment YAML? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE Each correct selection is worth one point.

**Answer:**

Explanation

### NEW QUESTION: 50

You have several Azure virtual machines that run Windows Server 2019.

You need to identify the distinct event IDs of each virtual machine as shown in the following table.

How should you complete the Azure Monitor query? To answer, drag the appropriate values to the correct locations. 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.

**Answer:**

Explanation

You can use makelist to pivot data by the order of values in a particular column. For example, you may want to explore the most common order events take place on your machines. You can essentially pivot the data by the order of EventIDs on each machine.

Example:

Event

```
| where TimeGenerated > ago(12h)
```

```
| order by TimeGenerated desc
```

```
| summarize makelist(EventID) by Computer
```

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/advanced-aggregations>

### NEW QUESTION: 51

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 (LEAVE A REPLY)**

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

References:

<https://docs.microsoft.com/en-us/powershell/module/azurerm.automation/register-azurermautomationdscnode>

### **NEW QUESTION: 52**

You need to prepare a network security group (NSG) named az400-9940427-nsg1 to host an Azure DevOps pipeline agent. The solution must allow only the required outbound port for Azure DevOps and deny all other inbound and outbound access to the Internet.

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

**Answer:**

See solution below.

Explanation

1. Open Microsoft Azure Portal and Log into your Azure account.
2. Select network security group (NSG) named az400-9940427-nsg1
3. Select Settings, Outbound security rules, and click Add
4. Click Advanced
5. Change the following settings:

Destination Port range: 8080

Protocol: TCP

Action: Allow

Note: By default, Azure DevOps Server uses TCP Port 8080.

References:

<https://robertsmit.wordpress.com/2017/09/11/step-by-step-azure-network-security-groups-nsg-security-center-az>

<https://docs.microsoft.com/en-us/azure/devops/server/architecture/required-ports?view=azure-devops>

### **NEW QUESTION: 53**

Your company has 60 developers who are assigned to four teams. Each team has 15 members. The company uses an agile development methodology.

You need to structure the work of the development teams so that each team owns their respective work while working together to reach a common goal.

Which parts of the taxonomy should you enable the team to perform autonomously?

- A.** Features and Tasks
- B.** Initiatives and Epics

C. Epics and Features

D. Stories and Tasks

**Answer: A ([LEAVE A REPLY](#))**

Explanation

A feature typically represents a shippable component of software.

Features, examples:

Add view options to the new work hub

Add mobile shopping cart

Support text alerts

Refresh the web portal with new look and feel

User Stories and Tasks are used to track work. Teams can choose how they track bugs, either as requirements or as tasks Reference:

<https://docs.microsoft.com/en-us/azure/devops/boards/backlogs/define-features-epics>

<https://docs.microsoft.com/en-us/azure/devops/boards/work-items/about-work-items>

#### **NEW QUESTION: 54**

Your company has a project in Azure DevOps.

You need to ensure that when there are multiple builds pending deployment only the most recent build is deployed.

What should you use?

A. deployment queue settings

B. deployment conditions

C. release gates

D. pull request triggers

**Answer: A ([LEAVE A REPLY](#))**

Explanation

References:

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

#### **NEW QUESTION: 55**

Your company is building a new solution in Java.

The company currently uses a SonarQube server to analyze the code of .NET solutions.

You need to analyze and monitor the code quality of the Java solution.

Which task types should you add to the build pipeline?

A. Maven

B. Chef

C. Octopus

D. Grunt

**Answer: C ([LEAVE A REPLY](#))**

**NEW QUESTION: 56**

In Azure DevOps, you create Project3.

You need to meet the requirements of the project.

What should you do first?

- A. From Azure DevOps, create a service endpoint.
- B. From Sonar Qube, obtain an authentication token.
- C. From Azure DevOps, modify the build definition.
- D. From Sonar Qube , create a project.

**Answer:** ([SHOW ANSWER](#))

Explanation

The first thing to do is to declare your Sonar Qube server as a service endpoint in your VSTS/DevOps project settings.

References: <https://docs.sonarqube.org/display/SCAN/Analyzing+with+SonarQube+Extension+for+vsts-TFS>

**NEW QUESTION: 57**

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.

**Answer:**

See solution below.

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 Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-create>

<https://docs.microsoft.com/en-us/azure/azure-sql/database/threat-detection-configure>

**NEW QUESTION: 58**

Your company uses the following resources:

Windows Server 2019 container images hosted in an Azure Container Registry  
Azure virtual machines that run the latest version of Ubuntu  
An Azure Log Analytics workspace  
Azure Active

Directory (Azure AD) An Azure key vault For which two resources can you receive vulnerability assessments in Azure Security Center? Each correct answer presents part of the solution.

- A. the Azure Log Analytics workspace
- B. the Azure key vault
- C. the Azure virtual machines that run the latest version of Ubuntu
- D. Azure Active Directory (Azure AD)
- E. the Windows Server 2019 container images hosted in the Azure Container Registry

**Answer: C,E (LEAVE A REPLY)**

Explanation

<https://docs.microsoft.com/en-us/azure/security-center/features-paas>

<https://docs.microsoft.com/en-us/azure/security-center/container-security>

### NEW QUESTION: 59

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. Add another self-hosted agent
- C. Change the self-hosted agent to use Red Hat Enterprise Linux (RHEL) 8.
- D. Add a Docker Compose task to the build pipelines.

**Answer: A (LEAVE A REPLY)**

### NEW QUESTION: 60

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.

**Answer:**

Explanation

Scenario:

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/>

Topic 1, Contoso Case Study: 2

Overview

Existing Environment

Contoso, Ltd. is a manufacturing company that has a main office in Chicago.

Requirements

Contoso plans to improve its IT development and operations processes implementing Azure DevOps principles.

Contoso has an Azure subscription and creates an Azure DevOps organization.

The Azure DevOps organization includes:

The Docker extension

A deployment pool named Pool7 that contains 10 Azure virtual machines that run Windows Server

2016.

The Azure subscription contains an Azure Automation account.

Planned Changes

Contoso plans to create projects in Azure DevOps as shown in the following table.

Technical Requirements

Contoso identifies the following technical requirements:

- \* Implement build agents for Project 1.
- \* Whenever possible, use Azure resources
- \* Avoid using deprecated technologies
- \* Implement a code flow strategy for Project2 that will:
  - \* Enable Team 2 to submit pull requests for Project2.
  - \* Enable Team 2 to work independently on changes to a copy of Project?
  - \* Ensure that any intermediary changes performed by Team2 on a copy of Project2 will be subject to the same restrictions as the ones defined in the build policy of Project2.
  - \* Whenever possible. Implement automation and minimize administrative effort.
- \* Implement Project3, Project5, Project6, and Project7 based on the planned changes.

\* Implement Project4 and configure the project to push Docker images to Azure Container Reentry.

### NEW QUESTION: 61

You are designing a strategy to monitor the baseline metrics of Azure virtual machines that run Windows Server. You need to collect detailed data about the processes running in the guest operating system. Which two agents should you deploy? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. the Dependency agent
- B. the Azure Network Watcher Agent for Windows
- C. the Telegraf agent
- D. the Azure Log Analytics agent

**Answer: (SHOW ANSWER)**

Explanation

The following table provide a quick comparison of the Azure Monitor agents for Windows.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agents-overview>

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### NEW QUESTION: 62

Your company uses Azure DevOps to manage the build and release processes for applications. You use a Git repository for applications source control.

You plan to create a new branch from an existing pull request. Later, you plan to merge the new branch and the target branch of the pull request.

You need to use a pull request action to create the new branch. The solution must ensure that the branch uses only a portion of the code in the pull request.

Which pull request action should you use?

- A. Set as default branch
- B. Approve with suggestions
- C. Cherry-pick
- D. Reactivate
- E. Revert

**Answer: C (LEAVE A REPLY)**

## Explanation

### Cherry-pick a pull request

To copy changes made in a pull request to another branch in your repo, follow these steps:

In a completed pull request, select Cherry-pick, or for an active pull request, select Cherry-pick from the

... menu. Cherry-picking a pull request in this way creates a new branch with the copied changes.

Merge into a target branch in a second pull request.

In Target branch, enter the branch you want to merge the copied changes.

In Topic branch name, enter a new branch to contain the copied changes, then select Cherry-pick.

Select Create pull request to merge the topic branch into the target branch to complete the cherry-pick.

Reference:

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

## **NEW QUESTION: 63**

You have a project in Azure DevOps that contains a Continuous Integration/Continuous Deployment (CI/CD) pipeline.

You need to enable detailed logging by defining a pipeline variable.

How should you configure the variable? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### **Answer:**

## Explanation

## **NEW QUESTION: 64**

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 build 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 Microsoft-hosted agent pool running the Windows Server 2019 with Visual Studio 2019 image. Include the Java Tool Installer task in the build pipeline.

Does this meet the goal?

**A. Yes**

B. No

**Answer: A (LEAVE A REPLY)**

Explanation

To build and deploy Windows, Azure, and other Visual Studio solutions you'll need at least one Windows agent. Windows agents can also build Java and Android apps.

The Azure Pipelines agent pool offers several virtual machine images to choose from, each including a broad range of tools and software. One such image is Windows Server 2019 with Visual Studio 2019.

Reference:

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

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

### NEW QUESTION: 65

You have a project in Azure DevOps.

You create the following YAML template named Template1.yml.

steps:

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

You create the following pipeline named File1.yml.

parameters:

users steps:

- 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: user steps: extends: template: template1.yml

- task: MyTask@1 - script: echo Done

**B.** template: template1.yml parameters: user steps:

- task: MyTask@1 - script: echo Done

**C.** extends: template: template1.yml parameters: user steps:

- task: MyTask@1 - script: echo Done

**D.** parameters: user steps: - template: template1.yml

- task: MyTask@1 - script: echo Done

**Answer: C (LEAVE A REPLY)**

Explanation

Azure Pipelines offers two kinds of templates: includes and extends. Included templates behave like #include in C++: it's as if you paste the template's code right into the outer file, which references it. To continue the C++ metaphor, extends templates are more like inheritance: the

template provides the outer structure of the pipeline and a set of places where the template consumer can make targeted alterations.

Example:

extends:

template: template.yml@templates

parameters:

usersteps:

- script: echo This is my first step

- script: echo This is my second step

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/security/templates>

### **NEW QUESTION: 66**

You are creating a YAML-based Azure pipeline to deploy an Azure Data factory instance that has the following requirements;

\* If a Data Factory instance exists already, the instance must be overwritten.

\* No other resources in a resource group named Fabrikam must be affected.

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

NOTE: Each correct selection is worth one point.

**Answer:**

see the answer below.

Explanation

Answer is below

### **NEW QUESTION: 67**

You have a private project in Azure DevOps and two users named User1 and User2.

You need to add User1 and User2 to groups to meet the following requirements:

User1 must be able to create a code wiki.

User2 must be able to edit wiki pages.

The solution must use the principle of least privilege.

To which group should you add each user? To answer, drag the appropriate groups to the correct users. Each group may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation

User1: Project Administrators

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

User2: Contributors

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

Reference:

<https://docs.microsoft.com/en-us/azure/devops/project/wiki/wiki-create-repo>

### **NEW QUESTION: 68**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You integrate a cloud-hosted Jenkins server and a new Azure Dev Ops deployment.

You need Azure Dev Ops to send a notification to Jenkins when a developer commits changes to a branch in Azure Repos.

Solution: You create an email subscription to an Azure DevOps notification.

Does this meet the goal?

**A.** Yes

**B.** NO

**Answer:** ([SHOW ANSWER](#))

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: 69**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

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

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

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

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

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

Does this meet the goal?

**A.** Yes

**B.** No

**Answer: B ([LEAVE A REPLY](#))**

Explanation

Instead use Octopus Tentacle.

References:

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

### **NEW QUESTION: 70**

You have an existing project in Azure DevOps.

You plan to integrate GitHub as the repository for the project

You need to ensure that Azure Pipelines runs under the Azure Pipelines identity Which authentication mechanism should you use?

- A. GitHubApp
- B. OAuth
- C. personal access token (PAT)
- D. Azure Active Directory (Azure AD)

**Answer: A ([LEAVE A REPLY](#))**

Explanation

GitHub App uses the Azure Pipelines identity.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/repos/github>

### **NEW QUESTION: 71**

Your company creates a web application.

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

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

NOTE: Each correct selection is worth one point.

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

**Answer: ([SHOW ANSWER](#))**

Explanation

References:

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

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

### **NEW QUESTION: 72**

You are designing YAML-based Azure pipelines for the apps shown in the following table.

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.

**Answer:**

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.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/process/deployment-jobs>

**NEW QUESTION: 73**

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

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

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

**Answer:**

Explanation

Deployment Mode

Location specified in the Linked artifact variable

**NEW QUESTION: 74**

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 ([LEAVE A REPLY](#))**

Explanation

Instead implement Continuous Assurance for the project.

Reference:

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

### **NEW QUESTION: 75**

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

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Add the package URL to the Get Package Manager settings in Visual Studio.

B. Add the package URL to the Environment settings in Visual Studio.

C. Publish the package to a feed.

D. Create a new feed in Azure Artifacts.

E. Upload a package to a Get repository.

F. Create a Get repository in Azure Repos.

**Answer: ([SHOW ANSWER](#))**

### **NEW QUESTION: 76**

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 ([LEAVE A REPLY](#))**

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.

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### NEW QUESTION: 77

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 ([LEAVE A REPLY](#))**

Explanation

Instead reduce the code complexity.

Reference:

<https://dzone.com/articles/fight-through-the-pain-how-to-deal-with-technical>

### NEW QUESTION: 78

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

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

You use a Git repository for applications source control.

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

Solution: You implement a pull request strategy that uses fast-forward merges.

Does this meet the goal?

A. Yes

B. No

**Answer: B ([LEAVE A REPLY](#))**

Explanation

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

Reference:

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

### **NEW QUESTION: 79**

Note: This question part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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 add a trigger to the build pipeline.

Does this meet the goal?

**A.** Yes

**B.** NO

**Answer:** ([SHOW ANSWER](#))

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: 80**

You have a project in Azure DevOps named Project1 that contains two Azure DevOps pipelines named Pipeline1 and Pipeline2.

You need to ensure that Pipeline1 can deploy code successfully to an Azure web app named webapp1. The solution must ensure that Pipeline2 does not have permission to webapp1.

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.

**Answer:**

Explanation

Graphical user interface, text, application, email Description automatically generated

Reference:

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

### **NEW QUESTION: 81**

You have a GitHub Enterprise account.

You need to enable push protection for secret scanning of the account repositories.

What should you do first?

**A.** Purchase a GitHub Advanced Security license.

- B. Create an access policy for secrets.
- C. Purchase Premium Plus support.
- D. Enforce multi-factor authentication (MFA).

**Answer: A ([LEAVE A REPLY](#))**

### **NEW QUESTION: 82**

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

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

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

**Answer:**

See solution below.

Explanation

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

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

Select the storage account.

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

Select the container.

If you want to schedule backups, then set Scheduled Backup to On and configure a schedule: every five hours Select your retention. Note that 0 means never delete backups.

Decide if at least one backup should always be retained.

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

Click Save to finalize the backup configuration.

Reference:

<https://petri.com/backing-azure-app-service>

### **NEW QUESTION: 83**

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 ([LEAVE A REPLY](#))**

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: 84**

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.

**Answer:**

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.

Reference:

<https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started>

<https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/custom-script-windows>

### **NEW QUESTION: 85**

You plan to create alerts that will be triggered based on the page load performance of a home page.

You have the Application Insights log query 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.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation

Box 1: percentile\_duration\_95

Box 2: resultCode

Reference:

<https://devblogs.microsoft.com/premier-developer/alerts-based-on-analytics-query-using-custom-log-search/>

### **NEW QUESTION: 86**

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: A,E (LEAVE A REPLY)**

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: 87**

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: A,B,D (LEAVE A REPLY)**

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: 88**

You have a GitHub repository that contains the source code for an app.

You need to identify all the changes made between versions 1.4.16 and 1.6.12 of the source code.

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

NOTE: Each correct selection is worth one point.

Git \_\_\_\_\_ | helper-script > changes.txt

#### **Answer:**

see the answer below.

Explanation

Answer below

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

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

### **NEW QUESTION: 89**

You have a project in Azure DevOps that uses packages from multiple public feeds. Some of the feeds are unreliable.

You need to consolidate the packages into a single feed.

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.

#### **Answer:**

Explanation

Step 1: Create a NuGet package.

NuGet and Maven are public package managers that support multiple feeds.

Step 2: Create an Azure Artifacts feed that uses upstream sources

If you want to use packages from multiple feeds, use upstream sources to bring packages from multiple feeds together into a single feed.

Step 3: Create a Microsoft Visual Studio project that includes all the packages Consume NuGet packages from upstream sources: Now you can open Visual Studio and install packages from the upstream sources you just configured.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/artifacts/how-to/set-up-upstream-sources>

### **NEW QUESTION: 90**

You are integrating an Azure Boards project and a GitHub repository.

You need to authenticate Azure Boards to GitHub.

Which two authentication methods can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. a personal access token (PAT)
- B. a trusted root certificate
- C. GitHub user credentials
- D. Azure Active Directory (Azure AD)
- E. a publisher certificate

**Answer: (SHOW ANSWER)**

### **NEW QUESTION: 91**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen Your company has a project in Azure DevOps for a new web application.

You need to ensure that when code is checked in, a build runs automatically.

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

Does the meet the goal?

- A. Yes
- B. No

**Answer: B (LEAVE A REPLY)**

Explanation

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

Select the Triggers tab.

Enable Continuous integration.

References:

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

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### **NEW QUESTION: 92**

Your development team is building a new web solution by using the Microsoft Visual Studio integrated development environment (IDE).

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

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

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

**Answer: (SHOW ANSWER)**

Explanation

B: By using your custom NuGet package feed within your Azure DevOps (previously VSTS) instance, you'll be able to distribute your packages within your organization with ease.

Start by creating a new feed.

A: We can publish, pack and push the built project to our NuGet feed.

E: Consume your private NuGet Feed

Go back to the Packages area in Azure DevOps, select your feed and hit "Connect to feed". You'll see some instructions for your feed, but it's fairly simple to set up.

Just copy your package source URL, go to Visual Studio, open the NuGet Package Manager, go to its settings and add a new source. Choose a fancy name, insert the source URL. Done.

Search for your package in the NuGet Package Manager and it should appear there, ready for installation.

Make sure to select the appropriate feed (or just all feeds) from the top right select box.

References:

<https://medium.com/medialesson/get-started-with-private-nuget-feeds-in-azure-devops-8c7b5f022a68>

**NEW QUESTION: 93**

You have a branch policy in a project in Azure DevOps. The policy requires that code always builds successfully.

You need to ensure that a specific user can always merge change to the master branch, even if the code fails to compile. The solution must use the principle of least privilege.

What should you do?

- A. From the Security setting of the repository, modify the access control for the user.
- B. From the Security settings of the branch, modify the access control for the user.
- C. Add the user to the Build Administrators group,
- D. Add the user to the Project Administrators group

**Answer: (SHOW ANSWER)**

Explanation

In some cases, you need to bypass policy requirements so you can push changes to the branch directly or complete a pull request even if branch policies are not satisfied. For these situations, grant the desired permission from the previous list to a user or group. You can scope this permission to an entire project, a repo, or a single branch. Manage this permission along with other Git permissions.

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

**NEW QUESTION: 94**

How should you configure the release retention policy for the investment planning applications suite? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

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: 95**

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:**

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.

Reference:

<https://medium.com/@patrickporto/4-branching-workflows-for-git-30d0aaee7bf>

**NEW QUESTION: 96**

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 defining a container job that uses a custom container that has the JavaScript packages preinstalled.

Does this meet the goal?

**A.** Yes

**B.** No

**Answer: B ([LEAVE A REPLY](#))**

Explanation

Instead enable pipeline caching.

Note:

npm-cache is a command line utility that caches dependencies installed via npm, bower, jspm and composer.

It is useful for build processes that run [npm|bower|composer|jspm] install every time as part of their build process. Since dependencies don't change often, this often means slower build times. npm-cache helps alleviate this problem by caching previously installed dependencies on the build machine.

Reference:

<https://www.npmjs.com/package/npm-cache>

**NEW QUESTION: 97**

You have an application that consists of several Azure App Service web apps and Azure functions.

You need to access the security of the web apps and the functions.

Which Azure features can you use to provide a recommendation for the security of the application?

- A. Security & Compliance in Azure Log Analytics
- B. Resource health in Azure Service Health
- C. Smart Detection in Azure Application Insights
- D. Compute & apps in Azure Security Center

**Answer: D (LEAVE A REPLY)**

Explanation

Monitor compute and app services: Compute & apps include the App Services tab, which App services: list of your App service environments and current security state of each.

Recommendations

This section has a set of recommendations for each VM and computer, web and worker roles, Azure App Service Web Apps, and Azure App Service Environment that Security Center monitors. The first column lists the recommendation. The second column shows the total number of resources that are affected by that recommendation. The third column shows the severity of the issue.

**NEW QUESTION: 98**

You have a project in Azure DevOps named Project1. Project1 contains a published wiki.

You need to change the order of pages in the navigation pane of the published wiki in the Azure DevOps portal.

What should you do?

- A. At the root of the wiki, create a file named order that defines the page hierarchy.
- B. At the root of the wiki, create a file named wiki.md that defines the page hierarchy.
- C. Rename the pages in the navigation pane.
- D. Drag and drop the pages in the navigation pane.

**Answer: D (LEAVE A REPLY)**

Explanation

Reorder a wiki page

You can reorder pages within the wiki tree view to have pages appear in the order and hierarchy you want.

You can drag-and-drop a page title in the tree view to do the following operations:

Change the parent-child relationship of a page

Change the order of the page within the hierarchy

Reference:

<https://docs.microsoft.com/en-us/azure/devops/project/wiki/add-edit-wiki>

**NEW QUESTION: 99**

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.

**Answer:**

Explanation

JIRA- Board  
Jenkins- Build Pipelines

**NEW QUESTION: 100**

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 ([LEAVE A REPLY](#))**

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: 101**

You have an Azure subscription.

You need to create a storage account by using a Bicep file.

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

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation

### NEW QUESTION: 102

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

You plan to use Azure Repos for all the projects.

Which version control system should you use for each project? To answer, drag the appropriate version control systems to the correct projects. Each version control system may be used once, more than once, or not at all.

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

NOTE: Each correct selection is worth one point.

#### Answer:

Explanation

1 -> TFVS Refer :

<https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/control-access-team-foundation-version-control?view=>

2 -> TFVS Refer :

<https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/add-check-policies?view=azure-devops>

3 -> Git Refer :

<https://docs.microsoft.com/en-us/azure/devops/repos/git/share-your-code-in-git-xcode?view=azure-devops>

4 -> TFVS Refer

[:https://docs.microsoft.com/en-us/azure/devops/organizations/security/permissions?view=azure-devops#tfvc](https://docs.microsoft.com/en-us/azure/devops/organizations/security/permissions?view=azure-devops#tfvc)

### NEW QUESTION: 103

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You plan to update the Azure DevOps strategy of your company.

You need to identify the following issues as they occur during the company's development process:

Licensing violations

Prohibited libraries

Solution: You implement continuous integration.

Does this meet the goal?

A. Yes

B. No

Answer: A ([LEAVE A REPLY](#))

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.

Reference:

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

### **NEW QUESTION: 104**

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

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

NOTE: Each correct selection is worth one point.

#### **Answer:**

Explanation

Box 1: Reader

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

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

Box 2: Owner

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

### **NEW QUESTION: 105**

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: ([SHOW ANSWER](#))**

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: 106

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

**Answer: C** ([LEAVE A REPLY](#))

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### NEW QUESTION: 107

You plan to use Terraform to deploy an Azure resource group.

You need to install the required frameworks to support the planned deployment.

Which two frameworks should you install? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Vault
- B. Terratest
- C. Node.js
- D. Yeoman
- E. Tiller

**Answer: B,D** ([LEAVE A REPLY](#))

Explanation

You can use the combination of Terraform and Yeoman. Terraform is a tool for creating infrastructure on Azure. Yeoman makes it easy to create Terraform modules.

Terratest provides a collection of helper functions and patterns for common infrastructure testing tasks, like making HTTP requests and using SSH to access a specific virtual machine. The following list describes some of the major advantages of using Terratest:

Convenient helpers to check infrastructure - This feature is useful when you want to verify your real infrastructure in the real environment.

Organized folder structure - Your test cases are organized clearly and follow the standard Terraform module folder structure.

Test cases are written in Go - Many developers who use Terraform are Go developers. If you're a Go developer, you don't have to learn another programming language to use Terratest.

Extensible infrastructure - You can extend additional functions on top of Terratest, including Azure-specific features.

Reference:

<https://docs.microsoft.com/en-us/azure/developer/terraform/create-base-template-using-yeoman>

<https://docs.microsoft.com/en-us/azure/developer/terraform/test-modules-using-terratest>

### **NEW QUESTION: 108**

Your company is building a new solution in Java.

The company currently uses a SonarQube server to analyze the code of .NET solutions.

You need to analyze and monitor the code quality of the Java solution.

Which task types should you add to the build pipeline?

- A. Chef
- B. Gradle
- C. Octopus
- D. Gulp

**Answer: (SHOW ANSWER)**

Explanation

SonarQube is a set of static analyzers that can be used to identify areas of improvement in your code. It allows you to analyze the technical debt in your project and keep track of it in the future. With Maven and Gradle build tasks, you can run SonarQube analysis with minimal setup in a new or existing Azure DevOps Services build task.

References:

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

### **NEW QUESTION: 109**

You plan to deploy a website that will be hosted in two Azure regions.

You need to create an Azure Traffic Manager profile named az40011566895n1-tm in a resource group named RG1lod11566895. The solution must ensure that users will always connect to a copy of the website that is in the same country.

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

**Answer:**

See solution below.

## Explanation

1. Go to the Azure portal, navigate to Traffic Manager profiles and click on the Add button to create a routing profile.
2. In the Create Traffic Manager profile, enter, or select these settings:  
Name: az40011566895n1-tm  
Routing method: Geographic  
Resource group: RG1lod11566895

Note: Traffic Manager profiles can be configured to use the Geographic routing method so that users are directed to specific endpoints (Azure, External or Nested) based on which geographic location their DNS query originates from. This empowers Traffic Manager customers to enable scenarios where knowing a user's geographic region and routing them based on that is important.

Reference:

<https://azure.microsoft.com/en-us/blog/announcing-the-general-availability-of-geographic-routing-capability-in-a>

## NEW QUESTION: 110

You have a private distribution group that contains provisioned and unprovisioned devices.

You need to distribute a new iOS application to the distribution group by using Microsoft Visual Studio App Center.

What should you do?

- A. Select Register devices and sign my app.
- B. Generate a new .p12 file for each device.
- C. Create an active subscription in App Center Test.
- D. Add the device owner to the collaborators group.

**Answer:** ([SHOW ANSWER](#))

## Explanation

The following diagram displays the entire app re-signing flow in App Center.

Reference:

<https://docs.microsoft.com/hu-hu/appcenter/distribution/auto-provisioning>

## NEW QUESTION: 111

You have the services shown in the following table.

You manage a project by using Azure Boards.

You need to notify the services Of build Status changes.

Which services can be notified by using a web hook?

- A. Service1 only
- B. Service2 only
- C. Service1 and Service2 only

**Answer:** C ([LEAVE A REPLY](#))

## NEW QUESTION: 112

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 Monitor, create an action group.

Does this meet the goal?

A. Yes

B. No

**Answer: A ([LEAVE A REPLY](#))**

Explanation

An action group is a collection of notification preferences defined by the owner of an Azure subscription.

Azure Monitor, Service Health and Azure Advisor alerts use action groups to notify users that an alert has been triggered.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/alerts/action-groups>

### **NEW QUESTION: 113**

You have a private GitHub repository.

You need to display the commit status of the repository on Azure Boards.

What should you do first?

A. Create a GitHub action in GitHub.

B. Add the Azure Pipelines app to the GitHub repository.

C. Configure multi-factor authentication (MFA) for your GitHub account.

D. Add the Azure Boards app to the repository.

**Answer: ([SHOW ANSWER](#))**

Explanation

To connect Azure Boards to GitHub.com, connect and configure from Azure Boards. Or, alternatively, install and configure the Azure Boards app from GitHub. Both methods have been streamlined and support authenticating and operating via the app rather than an individual.

Note (see step 4 below):

Add a GitHub connection:

Sign into Azure Boards.

Choose (1) Project Settings, choose (2) GitHub connections and then (3) Connect your GitHub account.

If this is your first time connecting to GitHub from Azure Boards, you will be asked to sign in using your GitHub credentials. Choose an account for which you are an administrator for the repositories you want to connect to.

The Add GitHub Repositories dialog automatically displays and selects all GitHub.com repositories for which you are an administrator. Unselect any repositories that you don't want to participate in the integration.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/boards/github/connect-to-github>

### **NEW QUESTION: 114**

You plan to deploy a runbook that will create Azure AD user accounts.

You need to ensure that runbooks can run the Azure PowerShell cmdlets for Azure Active Directory.

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

#### **Answer:**

See solution below.

#### **Explanation**

Azure Automation now ships with the Azure PowerShell module of version 0.8.6, which introduced the ability to non-interactively authenticate to Azure using OrgId (Azure Active Directory user) credential-based authentication. Using the steps below, you can set up Azure Automation to talk to Azure using this authentication type.

Step 1: Find the Azure Active Directory associated with the Azure subscription to manage:

1. Log in to the Azure portal as the service administrator for the Azure subscription you want to manage using Azure Automation. You can find this user by logging in to the Azure portal as any user with access to this Azure subscription, then clicking Settings, then Administrators.
2. Note the name of the directory associated with the Azure subscription you want to manage. You can find this directory by clicking Settings, then Subscriptions.

Step 2: Create an Azure Active Directory user in the directory associated with the Azure subscription to manage:

You can skip this step if you already have an Azure Active Directory user in this directory. and plan to use this OrgId to manage Azure.

1. In the Azure portal click on Active Directory service.
2. Click the directory name that is associated with this Azure subscription.
3. Click on the Users tab and then click the Add User button.
4. For type of user, select "New user in your organization." Enter a username for the user to create.
5. Fill out the user's profile. For role, pick "User." Don't enable multi-factor authentication. Multi-factor accounts cannot be used with Azure Automation.
6. Click Create.
7. Jot down the full username (including part after @ symbol) and temporary password.

Step 3: Allow this Azure Active Directory user to manage this Azure subscription.

1. Click on Settings (bottom Azure tab under StorSimple)
2. Click Administrators

3. Click the Add button. Type the full user name (including part after @ symbol) of the Azure Active Directory user you want to set up to manage Azure. For subscriptions, choose the Azure subscriptions you want this user to be able to manage. Click the check mark.

Step 4: Configure Azure Automation to use this Azure Active Directory user to manage this Azure subscription Create an Azure Automation credential asset containing the username and password of the Azure Active Directory user that you have just created. You can create a credential asset in Azure Automation by clicking into an Automation Account and then clicking the Assets tab, then the Add Setting button.

Note: Once you have set up the Azure Active Directory credential in Azure and Azure Automation, you can now manage Azure from Azure Automation runbooks using this credential.

References:

<https://azure.microsoft.com/sv-se/blog/azure-automation-authenticating-to-azure-using-azure-active-directory/>

### **NEW QUESTION: 115**

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 (LEAVE A REPLY)**

Explanation

Instead reduce the code complexity.

Reference:

<https://dzone.com/articles/fight-through-the-pain-how-to-deal-with-technical>

### **NEW QUESTION: 116**

You use Calendar Versioning (CalVer) for code assets.

You need to store an optional tag of beta as part of the version.

Which part of the version should you use for the tag?

**A.** modifier

**B.** micro

**C.** major

**D.** minor

**Answer: A ([LEAVE A REPLY](#))**

**NEW QUESTION: 117**

You have the following Azure policy.

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

**Answer: ([SHOW ANSWER](#))**

**NEW QUESTION: 118**

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 ([LEAVE A REPLY](#))**

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: 119**

You have a web app that connects to an Azure SQL Database named db1.

You need to configure db1 to send Query Store runtime statistics to Azure Log Analytics.

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

**Answer:**

See solution below.

**Explanation**

To enable streaming of diagnostic telemetry for a single or a pooled database, follow these steps:

1. Go to Azure SQL database resource.
2. Select Diagnostics settings.
3. Select Turn on diagnostics if no previous settings exist, or select Edit setting to edit a previous setting. You can create up to three parallel connections to stream diagnostic telemetry.
4. Select Add diagnostic setting to configure parallel streaming of diagnostics data to multiple resources.
5. Enter a setting name for your own reference.
6. Select a destination resource for the streaming diagnostics data: Archive to storage account, Stream to an event hub, or Send to Log Analytics.
7. For the standard, event-based monitoring experience, select the following check boxes for database diagnostics log telemetry: QueryStoreRuntimeStatistics
8. For an advanced, one-minute-based monitoring experience, select the check box for Basic metrics.
9. Select Save.

**Reference:**

<https://docs.microsoft.com/en-us/azure/azure-sql/database/metrics-diagnostic-telemetry-logging-streaming-expor>

**NEW QUESTION: 120**

You are designing a configuration management solution to support five apps hosted on Azure App Service.

Each app is available in the following three environments: development, test, and production.

You need to recommend a configuration management solution that meets the following requirements:

Supports feature flags

Tracks configuration changes from the past 30 days

Stores hierarchically structured configuration values

Controls access to the configurations by using role-based access control (RBAC) permission

Stores shared values as key/value pairs that can be used by all the apps Which Azure service should you recommend as the configuration management solution?

- A. Azure Cosmos DB
- B. Azure App Service
- C. Azure App Configuration
- D. Azure Key Vault

**Answer: C (LEAVE A REPLY)**

**Explanation**

The Feature Manager in the Azure portal for App Configuration provides a UI for creating and managing the feature flags that you use in your applications.

App Configuration offers the following benefits:

A fully managed service that can be set up in minutes

Flexible key representations and mappings

Tagging with labels

Point-in-time replay of settings

Dedicated UI for feature flag management

Comparison of two sets of configurations on custom-defined dimensions

Enhanced security through Azure-managed identities

Encryption of sensitive information at rest and in transit

Native integration with popular frameworks

App Configuration complements Azure Key Vault, which is used to store application secrets.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-app-configuration/overview>

### NEW QUESTION: 121

You are designing an Azure DevOps strategy for your company's development team.

You suspect that the team's productivity is low due to accumulate technical debt.

You need to recommend a metric to assess the amount of the team's technical debt.

What should you recommend?

- A. the percentage of unit test failures
- B. the number of code modules in an application
- C. the percentage of overall time spent on rework
- D. the number of unit test failures

**Answer: C (LEAVE A REPLY)**

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### NEW QUESTION: 122

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 (LEAVE A REPLY)**

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: 123**

You plan to store signed images in an Azure Container Registry instance named az4009940427acr1.

You need to modify the SKU for az4009940427acr1 to support the planned images. The solution must minimize costs.

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

**Answer:**

See solution below.

Explanation

1. Open Microsoft Azure Portal, and select the Azure Container Registry instance named az4009940427acr1.
2. Under Policies, select Content Trust > Enabled > Save.

References:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-content-trust>

### **NEW QUESTION: 124**

You have a project Azure DevOps.

You plan to create a build pipeline that will deploy resources by using Azure Resource Manager templates.

The templates will reference secrets stored in Azure Key Vault.

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

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

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation

**NEW QUESTION: 125**

You are developing an open source solution that uses a GitHub repository.

You create a new public project in Azure DevOps.

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

Which authentication type should you use?

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

**Answer: C ([LEAVE A REPLY](#))**

Explanation

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

<https://developer.github.com/v3/checks/>

**NEW QUESTION: 126**

You store source code in a Git repository in Azure repos. You use a third-party continuous integration (CI) tool to control builds.

What will Azure DevOps use to authenticate with the tool?

- A. certificate authentication
- B. a personal access token (PAT)
- C. a Shared Access Signature (SAS) token
- D. NTLM authentication

**Answer: B ([LEAVE A REPLY](#))**

Explanation

Personal access tokens (PATs) give you access to Azure DevOps and Team Foundation Server (TFS), without using your username and password directly.

Reference:

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

**NEW QUESTION: 127**

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 (LEAVE A REPLY)**

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](https://www.sonarqube.org/features/security/owasp/?gclid=Cj0KCQiAzZL-BRDnARIsAPCJs70Teq0-efl2Hd_h)

### NEW QUESTION: 128

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: A,B,E (LEAVE A REPLY)**

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-foundat](http://www.aisoftwarellc.com/blog/post/how-to-setup-automated-builds-using-jenkins-and-visual-studio-team-foundat)

### NEW QUESTION: 129

You use Azure Pipelines to build and release application code, The pipelines include validation tests that must be completed successfully before deployment proceeds from the test stage to production.

You discover inconsistent test outcomes for the same source code.

You need to validate the test logic.

What should you do?

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

**Answer: B (LEAVE A REPLY)**

### NEW QUESTION: 130

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.

**Answer:**

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: 131**

You are developing a full Microsoft .NET Framework solution that includes unit tests.

You need to configure SonarQube to perform a code quality validation of the C# code as part of the build pipelines.

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

**Answer:**

Explanation

Step 1: Prepare Analysis Configuration

Prepare Analysis Configuration task, to configure all the required settings before executing the build.

This task is mandatory.

In case of .NET solutions or Java projects, it helps to integrate seamlessly with MSBuild, Maven and Gradle tasks.

Step 2: Visual Studio Build

Reorder the tasks to respect the following order:

Prepare Analysis Configuration task before any MSBuild or Visual Studio Build task.

Step 3: Visual Studio Test

Reorder the tasks to respect the following order:

Run Code Analysis task after the Visual Studio Test task.

Step 4: Run Code Analysis

Run Code Analysis task, to actually execute the analysis of the source code.

This task is not required for Maven or Gradle projects, because scanner will be run as part of the Maven/Gradle build.

Note:

References:

<https://docs.sonarqube.org/display/SCAN/Analyzing+with+SonarQube+Extension+for+VSTS-TFS>

### **NEW QUESTION: 132**

You need to execute inline testing of an Azure DevOps pipeline that uses a Docker deployment model. The solution must prevent the results from being published to the pipeline.

What should you use for the inline testing?

- A. a single stage Dockerfile
- B. an Azure Kubernetes Service (AKS) pod
- C. a multi-stage Dockerfile
- D. a Docker Compose file

**Answer: D (LEAVE A REPLY)**

Explanation

"Build and test with a multi-stage Dockerfile: build and tests execute inside the container using a multi-stage Docker file, as such test results are not published back to the pipeline."

<https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/test/publish-test-results?view=azure-devops&tabs>

### **NEW QUESTION: 133**

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.

**Answer:**

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.

Reference:

<https://ourcodingclub.github.io/tutorials/git/>

<https://mermaid-js.github.io/mermaid/#/>

### **NEW QUESTION: 134**

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: Perform a Subscription Health scan when packages are created.

Does this meet the goal?

A. Yes

B. No

**Answer: B (LEAVE A REPLY)**

Explanation

Instead implement Continuous Assurance for the project.

Note: The Subscription Security health check features in AzSK contains a set of scripts that examines a subscription and flags off security issues, misconfigurations or obsolete artifacts/settings which can put your subscription at higher risk.

Reference:

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

### **NEW QUESTION: 135**

You are configuring the Azure DevOps dashboard. The solution must meet the technical requirements.

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

Each 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.

**Answer:**

Explanation

Graphical user interface, text, application Description automatically generated

Woodgrove Bank identifies the following technical requirements:

The Azure DevOps dashboard must display the metrics shown in the following table:

Box 1: Velocity

Velocity displays your team velocity. It shows what your team delivered as compared to plan.

Box 2: Release pipeline overview

Release pipeline overview shows the status of environments in a release definition.

Box 3: Query tile

Query tile displays the total number of results from a query.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/report/dashboards/widget-catalog?view=azure-devops>

### NEW QUESTION: 136

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

DepPipeline1 and ADFPipeline1 use a single credential that is stored in Vault1.

You need to configure ADFPipeline1 to retrieve the credential from Vault1.

Which type of activity should you use?

- A. Copy
- B. Lookup
- C. Web
- D. Get Metadata

**Answer: A (LEAVE A REPLY)**

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### NEW QUESTION: 137

Your company uses Azure DevOps for Get source control.

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

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

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

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

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

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

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation

Box 1: subscribe

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

```
/azrepos subscribe [project ur1]
```

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

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

```
/azrepos subscribe [repository ur1]
```

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

For example, for Get repositories, use:

```
/azrepos subscribe https://dev.azure.com/myorg/myproject/_git/myrepository Reference:
```

```
https://docs.microsoft.com/en-us/azure/devops/repos/integrations/repos-slack
```

### NEW QUESTION: 138

You have an Azure DevOps organization named Contoso.

You need to receive Microsoft Teams notifications when work items are updated.

What should you do?

- A. From Azure DevOps, configure a service hook subscription.
- B. From Microsoft Teams, configure a connector.
- C. From Microsoft Teams, add a channel.
- D. From Azure DevOps, install an extension.
- E. From the Microsoft Teams admin center configure external access.

**Answer: A** ([LEAVE A REPLY](#))

Explanation

<https://azuredevopslabs.com/labs/vstsextend/teams/>

### NEW QUESTION: 139

You have a GitHub organization named org1 and an Azure tenant named Tenant1.

You need to enable single sign-on (SSO) in Azure Active Directory (Azure AD) for the users in org1.

Which URIs should you use for the SAML configuration in Azure AD? To answer, drag the appropriate URIs to the correct settings. Each URI 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.

**Answer:**

Explanation

Graphical user interface, text, application Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/saas-apps/github-tutorial>

### NEW QUESTION: 140

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.

**Answer:**

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.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/boards/github/connect-to-github>

**NEW QUESTION: 141**

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

**Answer: D (LEAVE A REPLY)**

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: 142**

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 use Azure DevOps to build a web app named Appl and deploy Appl to VMSS1. Appl is used heavily and has usage patterns that vary on a weekly basis.

You need to recommend a solution to detect an abnormal rise in the rate of failed requests to Appl. The solution must minimize administrative effort.

What should you include in the recommendation?

- A. an Azure Service Health alert
- B. the Failures feature in Azure Application Insights
- C. the Smart Detection feature in Azure Application Insights
- D. an Azure Monitor alert that uses an Azure Log Analytics query

**Answer: C (LEAVE A REPLY)**

Explanation

After setting up Application Insights for your project, and if your app generates a certain minimum amount of data, Smart Detection of failure anomalies takes 24 hours to learn the normal behavior of your app, before it is switched on and can send alerts.

Reference:

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

### **NEW QUESTION: 143**

Your company has a release pipeline in an Azure DevOps project.

You plan to deploy to an Azure Kubernetes Services (AKS) cluster by using the Helm package and deploy task.

You need to install a service in the AKS namespace for the planned deployment.

Which service should you install?

- A. Azure Container Registry
- B. Chart
- C. Kubectl
- D. Tiller

**Answer: (SHOW ANSWER)**

Explanation

Before you can deploy Helm in an RBAC-enabled AKS cluster, you need a service account and role binding for the Tiller service.

Reference:

<https://docs.microsoft.com/en-us/azure/aks/kubernetes-helm>

### **NEW QUESTION: 144**

To resolve the current technical issue, what should you do to the Register-AzureRmAutomationDscNode command?

- A.** Change the value of the ConfigurationMode parameter.
- B.** Replace the Register-AzureRmAutomationDscNode cmdlet with Register-AzureRmAutomationScheduledRunbook
- C.** Add the AllowModuleOverwrite parameter.
- D.** Add the DefaultProfile parameter.

**Answer: A (LEAVE A REPLY)**

Explanation

Change the ConfigurationMode parameter from ApplyOnly to ApplyAndAutocorrect.

The Register-AzureRmAutomationDscNode cmdlet registers an Azure virtual machine as an APS Desired State Configuration (DSC) node in an Azure Automation account.

Scenario: Current Technical Issue

The test servers are configured correctly when first deployed, but they experience configuration drift over time. Azure Automation State Configuration fails to correct the configurations.

Azure Automation State Configuration nodes are registered by using the following command.

References:

<https://docs.microsoft.com/en-us/powershell/module/azurerm.automation/register-azurermautomationdscnode?vi>

### **NEW QUESTION: 145**

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

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

What should you use?

- A.** Cobertura
- B.** Bullseye Coverage
- C.** MSTest
- D.** Coverlet

**Answer: A (LEAVE A REPLY)**

Explanation

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

Reference:

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

**NEW QUESTION: 146**

You are automating the testing process for your company.

You need to automate UI testing of a web application.

Which framework should you use?

- A. JaCoco
- B. Selenium
- C. Xamarin.UITest
- D. Microsoft.CodeAnalysis

**Answer: B (LEAVE A REPLY)**

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: 147**

You use Get for source control.

You need to commit a 3-G3 ZIP file that contains virtual machines used for testing. The solution must meet the following requirements:

The file must be versioned.

The file must be associated with the corresponding code commits.

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

NOTE: Each correct selection is worth one point.

- A. Install the get-stash extension and associate the extension to ZIP files.
- B. Install the get-fat extension and associate the extension to ZIP files.
- C. Store files in Azure Storage and enable blob versions.
- D. Install the Get IFS extension and associate the extension to ZIP files.
- E. Use G Zip to compress the file before committing the file.

**Answer: A,D (LEAVE A REPLY)**

**NEW QUESTION: 148**

Your company uses Azure DevOps.

Only users who have accounts in Azure Active Directory can access the Azure DevOps environment.

You need to ensure that only devices that are connected to the on-premises network can access the Azure DevOps environment.

What should you do?

- A. Assign the Stakeholder access level to all users.

- B. In Azure Active Directory, configure risky sign-ins.
- C. In Azure DevOps, configure Security in Project Settings.
- D. In Azure Active Directory, configure conditional access.

**Answer: D ([LEAVE A REPLY](#))**

Explanation

Conditional Access is a capability of Azure Active Directory. With Conditional Access, you can implement automated access control decisions for accessing your cloud apps that are based on conditions.

Conditional Access policies are enforced after the first-factor authentication has been completed.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/overview>

### **NEW QUESTION: 149**

You have GitHub repository named repo1 that stores the code of named App1.

You need deploy workflow for repo1 by using GitHub Actions. The solution must meet the following requirements:

Scan on pushes to the main branch.

Scan on pull requests to the main branch.

Scan on pull requests to any branch that has a prefix of releases/.

Scan all the files in subdirectories of the scan directory.

Exclude scanning of markdown files

**Answer:**

Explanation

Graphical user interface, application Description automatically generated

### **NEW QUESTION: 150**

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.

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.

**Answer:**

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: 151

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 Pre-deployment conditions, you modify the Time between re-evaluation of gates option.

Does this meet the goal?

A. Yes

B. No

**Answer: B (LEAVE A REPLY)**

Explanation

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

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### NEW QUESTION: 152

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.

**Answer:**

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

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/add-template-to-azure-pipelines>

### **NEW QUESTION: 153**

You have a web app named App1 that is hosted on multiple servers. App1 uses Application Insights in Azure Monitor.

You need to compare the dairy CPU usage from the last week for all servers.

How should you complete the query? 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.

**Answer:**

Explanation

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

### **NEW QUESTION: 154**

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.

**Answer:**

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: 155**

You have an Azure Repos Git repository named repo1.

You need to ensure that you can authenticate to repo1 by using SSH.

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.

**Answer:**

Explanation

D:\mudassar\Untitled.jpg

### **NEW QUESTION: 156**

You have a multi-tier application. The front end of the application is hosted in Azure App Service.

You need to identify the average load times of the application pages.

What should you use?

- A. Azure Application Insights
- B. the activity log of the App Service
- C. the diagnostics logs of the App Service
- D. Azure Advisor

**Answer: A (LEAVE A REPLY)**

Explanation

Application Insights will tell you about any performance issues and exceptions, and help you find and diagnose the root causes.

Application Insights can monitor both Java and ASP.NET web applications and services, WCF services. They can be hosted on-premises, on virtual machines, or as Microsoft Azure websites. On the client side, Application Insights can take telemetry from web pages and a wide variety of devices including iOS, Android, and Windows Store apps.

Reference:

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

### **NEW QUESTION: 157**

You need to deploy Internet Information Services (IIS) to an Azure virtual machine that runs Windows Server

2019.

How should you complete the Desired State Configuration (DSQ configuration script? To answer, drag the appropriate values to the correct locations. 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.

**Answer:**

Explanation

Box 1: Configuration

The following example shows a simple example of a configuration.

configuration IISInstall

```
{
node "localhost"
{
WindowsFeature IIS
{
Ensure = "Present"
Name = "Web-Server"
}
}
}
```

Box 2: WindowsFeature

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/dsc-overview>

### **NEW QUESTION: 158**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You plan to update the Azure DevOps strategy of your company.

You need to identify the following issues as they occur during the company's development process:

Licensing violations

Prohibited libraries

Solution: You implement automated security testing.

Does this meet the goal?

**A.** Yes

**B.** No

**Answer:** ([SHOW ANSWER](#))

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 definitive database of open source repositories.

Reference:

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

## NEW QUESTION: 159

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.

### Answer:

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: 160

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. Jenkins
- B. OWASPZAP
- C. PDM
- D. WhiteSource

**Answer: D ([LEAVE A REPLY](#))**

### **NEW QUESTION: 161**

You have an Azure DevOps organization named Contoso and an Azure subscription. The subscription contains an Azure virtual machine scale set named VMSS1 and an Azure Standard Load Balancer named LB1.

LB1 distributes incoming requests across VMSS1 instances.

You use Azure DevOps to build a web app named App1 and deploy App1 to VMSS1. App1 is accessible via HTTPS only and configured to require mutual authentication by using a client certificate.

You need to recommend a solution for implementing a health check of App1. The solution must meet the following requirements:

- \* Identify whether individual instances of VMSS1 are eligible for an upgrade operation.
- \* Minimize administrative effort.

What should you include in the recommendation?

- A. the Custom Script Extension
- B. the Application Health extension
- C. Azure Monitor autoscale
- D. an Azure Load Balancer health probe

**Answer: B ([LEAVE A REPLY](#))**

Explanation

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-health-extension#w>

### **NEW QUESTION: 162**

You have a private project in Azure DevOps.

You need to ensure that a project manager can create custom work item queries to report on the project's progress. The solution must use the principle of least privilege.

To which security group should you add the project manager?

- A. Project Collection Administrators
- B. Reader
- C. Project Administrators

D. Contributor

**Answer: D ([LEAVE A REPLY](#))**

Explanation

Contributors have permissions to contribute fully to the project code base and work item tracking. The main permissions they don't have or those that manage or administer resources.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/organizations/security/permissions>

<https://docs.microsoft.com/en-us/azure/devops/organizations/security/permissions-access-work-tracking?view=a>

### **NEW QUESTION: 163**

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

You plan to create a linked service in DF1. The linked service will connect to SQL1 by using Microsoft SQL Server authentication. The password for the SQL Server login will be stored in KV1.

You need to configure DF1 to retrieve the password when the data factory connects to SQL1. The solution must use the principle of least privilege.

How should you configure DF1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation

Box 1: Secret

Store credential in Azure Key Vault by reference secret stored in key vault.

To reference a credential stored in Azure Key Vault, you need to:

Retrieve data factory managed identity

Grant the managed identity access to your Azure Key Vault. In your key vault -> Access policies -> Add Access Policy, search this managed identity to grant Get permission in Secret permissions dropdown. It allows this designated factory to access secret in key vault.

Create a linked service pointing to your Azure Key Vault.

Create data store linked service, inside which reference the corresponding secret stored in key vault.

Box 2: Access policy

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/store-credentials-in-key-vault>

### **NEW QUESTION: 164**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You have an Azure DevOps project.

Your build process creates several artifacts.

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

Solution: You deploy a Kubernetes cluster on-premises. You deploy a Helm agent to the cluster.

You add a Download Build Artifacts task to the deployment pipeline.

Does this meet the goal?

A. Yes

B. No

**Answer: B (LEAVE A REPLY)**

Explanation

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

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

If your on-premises environments do not have connectivity to a Microsoft-hosted agent pool (which is typically the case due to intermediate firewalls), you'll need to manually configure a self-hosted agent on on-premises computer(s).

Note 2: As we [Microsoft] are launching this new experience in preview, we are currently optimizing it for Azure Kubernetes Service (AKS) and Azure Container Registry (ACR). Other Kubernetes clusters, for example running on-premises or in other clouds, as well as other container registries, can be used, but require setting up a Service Account and connection manually.

References:

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

### **NEW QUESTION: 165**

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 Service connections settings for Project1

D. the Source control settings for the Automation account

**Answer: (SHOW ANSWER)**

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