

Microsoft

Exam Questions AZ-400

Microsoft Azure DevOps Solutions (beta)



NEW QUESTION 1

- (Topic 4)

Your team uses Azure Pipelines to deploy applications.

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

What should you do?

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

Answer: D

NEW QUESTION 2

SIMULATION - (Topic 4)

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

Add an alert rule

*** Threshold** ⓘ

1

bytes/second

*** Period** ⓘ

Over the last 5 minutes ▼

Email service and co-administrators

Additional administrator email

Additional administrator email

Webhook ⓘ

HTTP or HTTPS endpoint to route alerts to

[Learn more about configuring webhooks](#)

OK

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

NEW QUESTION 3

SIMULATION - (Topic 4)

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

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

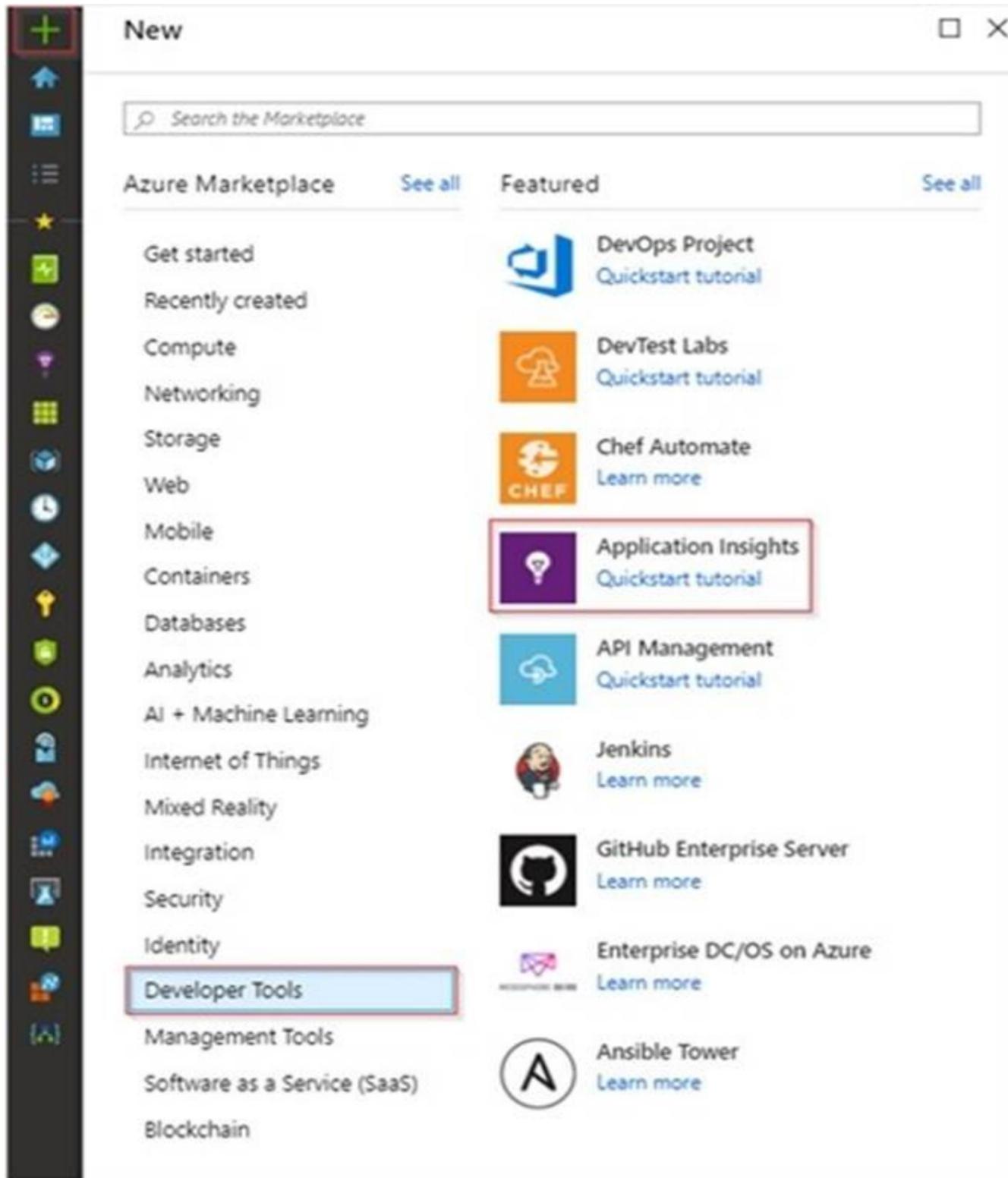
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create an instance of Azure Application Insights

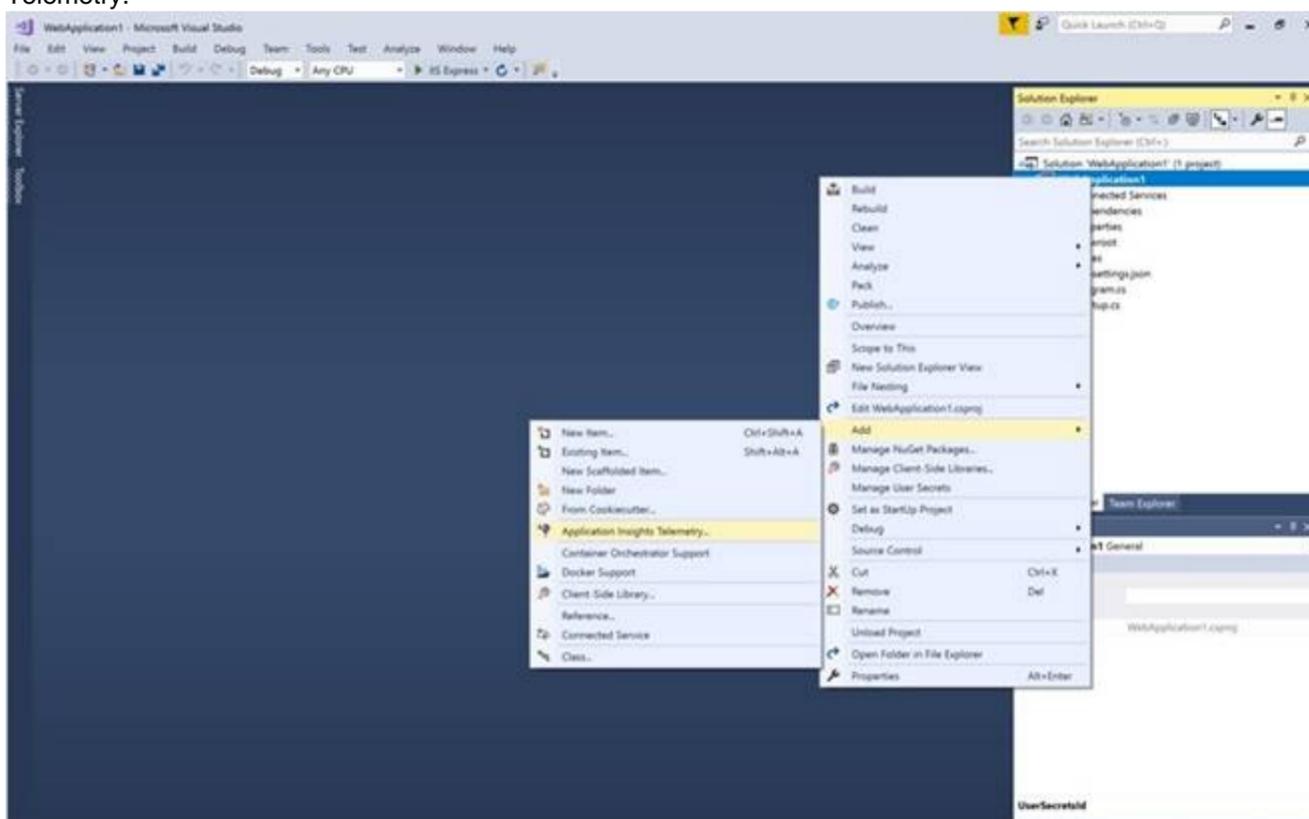
- * 1. Open Microsoft Azure Portal
- * 2. Log into your Azure account, Select Create a resource > Developer tools > Application Insights.



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

Step 2: Configure App Insights SDK

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



* 5. Click the Get Started button

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

References:

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

NEW QUESTION 4

HOTSPOT - (Topic 4)

You have a project in Azure DevOps that includes two users named User1 and User2. You plan to use Azure Monitor to manage logs. You need to ensure that the users can perform the actions shown in following the table.

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

The solution must follow the principle of least privilege.

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

NOTE: Each correct selection is worth one point.

Answer Area

User1:
 Log Analytics Reader
 Monitoring Contributor
 Monitoring Metrics Publisher
 Monitoring Reader

User2:
 Log Analytics Reader
 Monitoring Contributor
 Monitoring Metrics Publisher
 Monitoring Reader

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

User1:
 Log Analytics Reader
 Monitoring Contributor
 Monitoring Metrics Publisher
 Monitoring Reader

User2:
 Log Analytics Reader
 Monitoring Contributor
 Monitoring Metrics Publisher
 Monitoring Reader

NEW QUESTION 5

- (Topic 4)

You have an Azure subscription that contains an Azure pipeline named Pipeline1 and a GitHub repository named Repo1, Repo1 contains Bicep modules. Pipeline1 deploys Azure resources by using the Bicep modules.

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

What should you do?

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

Answer: A

NEW QUESTION 6

- (Topic 4)

You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant. You are configuring a build pipeline in Azure Pipelines that will include a task named

Task1. Task1 will authenticate by using an Azure AD service principal.

Which three values should you configure for Task1? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the object ID
- B. the tenant ID
- C. the app ID
- D. the client secret
- E. the subscription ID

Answer: BCD

Explanation:

Reference:

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

NEW QUESTION 7

- (Topic 4)

You use Azure Pipelines to build and test code projects. You notice an increase in cycle times.

You need to identify whether agent pool exhaustion is causing the issue.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. View the Pipeline duration report.
- B. Query the PipelineRun/PipelineRuns endpoint.
- C. View the pool consumption report at the organization level.
- D. Query the TaskAgentPoolSizeSnapshots endpoint

Answer: CD

NEW QUESTION 8

- (Topic 4)

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

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

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

You use a Git repository for applications source control.

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

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

- A. Yes
- B. No

Answer: B

Explanation:

Instead use fast-forward merge.

Note:

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

Reference:

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

NEW QUESTION 9

HOTSPOT - (Topic 4)

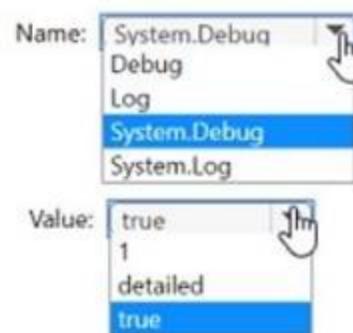
You have a project in Azure DevOps that contains a Continuous Integration/Continuous Deployment (CI/CD) pipeline.

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 Area

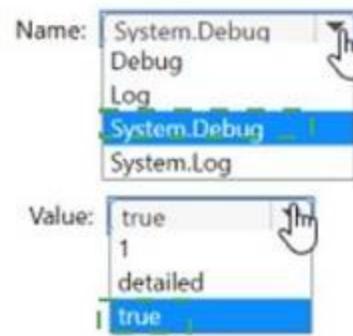


- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 10

- (Topic 4)

You have a GitHub repository that contains workflows. The workflows contain steps that execute predefined actions. Each action has one or more versions. You need to request the specific version of an action to execute.

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

NOTE: Each correct selection is worth one point.

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

Answer: ABD

Explanation:

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

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

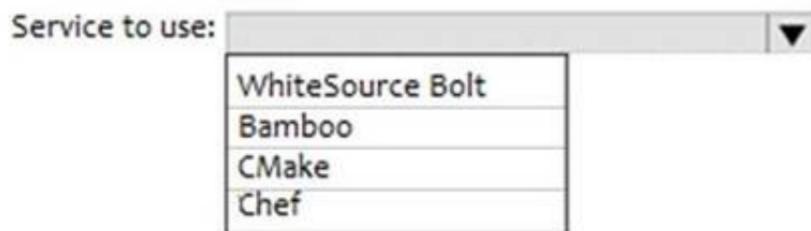
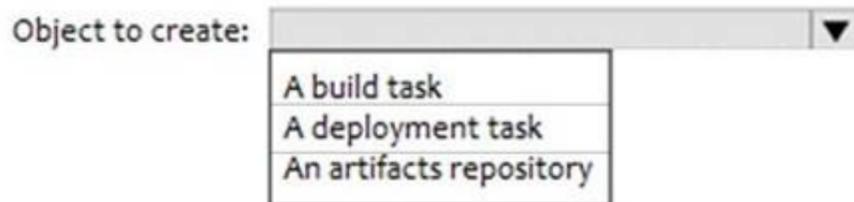
NEW QUESTION 10

HOTSPOT - (Topic 4)

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

You need to ensure that the project can be scanned for known security vulnerabilities in the open source libraries.

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: A Build task Trigger a build

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

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

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

Box 2: WhiteSource Bolt

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

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

NEW QUESTION 13

- (Topic 4)

You have an Azure DevOps organization named Contoso and an Azure subscription. The subscription contains an Azure virtual machine scale set named VMSS1 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 Appl 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

Explanation:

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-health-extension#when-to-use-the-application-health-extension>

NEW QUESTION 16

- (Topic 4)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some

question sets might have more than one correct solution, while others might not have a correct solution.

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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

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 19

- (Topic 4)

You have a build pipeline in Azure Pipelines that uses different jobs to compile an application for 10 different architectures.

The build pipeline takes approximately one day to complete.

You need to reduce the time it takes to execute the build pipeline

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

- A. Move to a blue/green deployment pattern.
- B. Create an agent pool.
- C. Create a deployment group.
- D. Reduce the size of the repository.
- E. Increase the number of parallel jobs.

Answer: BE

Explanation:

Question: I need more hosted build resources. What can I do? Answer: The Azure Pipelines pool provides all Azure DevOps organizations with cloud-hosted build agents and free build minutes each month. If you need more Microsoft-hosted build resources, or need to run more jobs in parallel, then you can either: Host your own agents on infrastructure that you manage. Buy additional parallel jobs.

Reference:

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

NEW QUESTION 24

- (Topic 4)

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

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

You configure alerts in Azure Monitor.

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

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

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

Answer: C

Explanation:

Scenarios and use cases for gates include:

? Quality validation. Query metrics from tests on the build artifacts such as pass rate or code coverage and deploy only if they are within required thresholds. Use Quality Gates to integrate monitoring into your pre-deployment or post-deployment. This ensures that you are meeting the key health/performance metrics (KPIs) as your applications move from dev to production and any differences in the infrastructure environment or scale is not negatively impacting your KPIs. Note: Gates allow automatic collection of health signals from external services, and then promote the release when all the signals are successful at the same time or stop the deployment on timeout. Typically, gates are used in connection with incident management, problem management, change management, monitoring, and external approval systems.

References:

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

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

NEW QUESTION 28

- (Topic 4)

You have an Azure DevOps organization named Contoso.

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

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

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

Answer: B

Explanation:

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

Reference:

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

NEW QUESTION 32

- (Topic 4)

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

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

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

NOTE: Each correct answer is worth one point.

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

Answer: DE

NEW QUESTION 34

- (Topic 4)

You plan to provision a self-hosted Linux agent

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

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

Answer: B

Explanation:

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

Reference:

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

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

NEW QUESTION 37

DRAG DROP - (Topic 4)

You use Get for source control.

You delete a file, commit the changes, and continue to work. You need to recover the deleted file.

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

Commands

- git restore path/to/file
- git log
- git commit -m 'undeleated the file'
- git checkout [hash]-1 -- path/to/file
- git stash
- git tag

Answer Area

Navigation: < >

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Commands

- git restore path/to/file
- git log
- git commit -m 'undeleated the file'
- git checkout [hash]-1 -- path/to/file
- git stash
- git tag

Answer Area

git log

git checkout [hash]-1 -- path/to/file

git restore path/to/file

Navigation: < >

NEW QUESTION 41

- (Topic 4)

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

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

You company has a prefect in Azure DevOps for a new web application.

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

Solution: From the Triggers tab of the build pipeline, you selected Batch changes while a build is in progress

Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 46

HOTSPOT - (Topic 4)

Your company uses a Git source-code repository.

You plan to implement GitFlow as a workflow strategy.

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

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

NOTE: Each correct selection is worth one point.

Answer Area

Production code:

Master
Feature
Develop

Preproduction code:

Master
Feature
Develop

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Master

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

Box 2: Develop

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

NEW QUESTION 47

- (Topic 4)

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

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

requirements:

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

What should you do first?

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

Answer: D

NEW QUESTION 50

HOTSPOT - (Topic 4)

You have an Azure subscription.

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

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

NOTE: Each correct selection is worth one point.

○ ○ ○ ○ ○

Answer Area

```

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

```

kind:

kind:

param:

properties:

type:

var:

properties:

kind:

param:

properties:

type:

var:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

○ ○ ○ ○ ○

Answer Area

```

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

```

kind:

kind:

param:

properties:

type:

var:

properties:

kind:

param:

properties:

type:

var:

NEW QUESTION 53

- (Topic 4)

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

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

You have an Azure DevOps project.

Your build process creates several artifacts.

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

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

Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

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

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

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

References:

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

NEW QUESTION 55

- (Topic 4)

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

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

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

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

? Licensing violations

? Prohibited libraries

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

A. Yes

B. No

Answer: A

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 56

- (Topic 4)

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

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

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

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

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

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

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

Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

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

References:

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

NEW QUESTION 60

HOTSPOT - (Topic 4)

Your company is building a new web application.

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

All the pilot users have a corporate computer that has Google Chrome and the Microsoft

Test & Feedback extension installed. The pilot users will test the application by using Chrome.

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

Which access levels m Azure DevOps should you identify? To answer, select the appropriate options in the answer area

NOTE: Each correct selection is worth one point.

Developers:

Pilot users:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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 64

- (Topic 4)

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

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

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

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

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

- A. Yes
- B. NO

Answer: B

NEW QUESTION 69

HOTSPOT - (Topic 4)

You have an Azure subscription that contains an Azure key vault named Vault1, an Azure pipeline named Pipeline1, and an Azure SQL database named DB1. Pipeline1 is used to deploy an app that will authenticate to DB1 by using a password.

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

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

Answer Area

Store the password as a:

Grant Pipeline1 access to Vault1 by modifying the:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 74

- (Topic 4)

You manage projects by using Azure Boards.

You have a current work item name item A that is dependent on a work item named item3. You need to define the dependency for item A.

What should you do in the web portal for Azure DevOps?

- A. From Backlogs, open the context menu, select Add link and then select item3. Set Link type to Related and add the ID of item A
- B. From item A, open the Links tab, and then select Add link
- C. Set Link type to Successor and add the ID of item B.
- D. From Queries, open the context menu, select Add link, and then select Existing item
- E. Set Link type to Affected By and add the ID of item B.
- F. From item A, open the Links tab, and then select Add link
- G. Set Link type to References and add the ID Of item B.

Answer: B

NEW QUESTION 78

- (Topic 4)

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

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

What should you do?

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

Answer: B

Explanation:

There are three types of Application Insights availability tests:

URL ping test: a simple test that you can create in the Azure portal. Multi-step web test

Custom Track Availability Tests

Note: After you've deployed your web app/website, you can set up recurring tests to monitor availability and responsiveness. Azure Application Insights sends web requests to your application at regular

intervals from points around the world. It can alert you if your application isn't responding, or if it responds too slowly.

You can set up availability tests for any HTTP or HTTPS endpoint that is accessible from the public internet. You don't have to make any changes to the website you're testing. In fact, it doesn't even have to

be a site you own. You can test the availability of a REST API that your service depends on.

Reference:

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

NEW QUESTION 79

- (Topic 4)

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

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

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

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

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

Answer: AC

Explanation:

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

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

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

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

NEW QUESTION 83

- (Topic 4)

Your company has a project in Azure DevOps for a new web application. The company identifies security as one of the highest priorities. You need to recommend a solution to minimize the likelihood that infrastructure credentials will be leaked. What should you recommend?

- A. Add a Run Inline Azure PowerShell task to the pipeline.
- B. Add a PowerShell task to the pipeline and run Set-AzureKeyVaultSecret.
- C. Add a Azure Key Vault task to the pipeline.
- D. Add Azure Key Vault references to Azure Resource Manger templates.

Answer: B

Explanation:

Azure Key Vault provides a way to securely store credentials and other keys and secrets. The Set-AzureKeyVaultSecret cmdlet creates or updates a secret in a key vault in Azure Key Vault.

References:

<https://docs.microsoft.com/en-us/powershell/module/azurerem.keyvault/set-azurekeyvaultsecret>

NEW QUESTION 85

- (Topic 4)

You plan to onboard 10 new developers. You need to recommend a development environment that meets the following requirements:

- ? Integrates with GitHub
 - ? Provides integrated debugging tools
 - ? Supports remote workers and hot-desking environments
 - ? Supports developers who use browsers, tablets, and Chromebooks
- What should you recommend?

- A. VS Code
- B. Xamarin Studio
- C. Mono Develop
- D. Github/Visual Studio Code spaces

Answer: D

Explanation:

Visual Studio Code spaces is built to accommodate the widest variety of projects or tasks, including GitHub and integrating debugging. Visual Studio Code spaces conceptually and technically extends the Visual Studio Code Remote Development extensions.

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

- ? Visual Studio Code
- ? Visual Studio Code-based editor in the browser

Reference:

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

NEW QUESTION 86

DRAG DROP - (Topic 4)

You are defining release strategies for two applications as shown in the following table.

Application name	Goal
App1	Failure of App1 has a major impact on your company. You need a small group of users, who opted in to a testing App1, to test new releases of the application.
App2	You need to minimize the time it takes to deploy new releases of App2, and you must be able to roll back as quickly as possible.

Which release strategy should you use for each application? To answer, drag the appropriate release strategies to the correct applications. Each release strategy 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.

Release Strategies

- Blue/Green deployment
- Canary deployment
- Rolling deployment

Answer Area:

App1:

App2:

A. Mastered

B. Not Mastered

Answer: A

Explanation:

App1: Canary deployment

With canary deployment, you deploy a new application code in a small part of the production infrastructure. Once the application is signed off for release, only a few users

are routed to it. This minimizes any impact.

With no errors reported, the new version can gradually roll out to the rest of the infrastructure.

App2: Rolling deployment:

In a rolling deployment, an application's new version gradually replaces the old one. The actual deployment happens over a period of time. During that time, new and old versions will coexist without affecting functionality or user experience. This process makes it easier to roll back any new component incompatible with the old components.

NEW QUESTION 87

- (Topic 4)

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

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

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

NOTE: Each correct selection is worth one point.

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

Answer: AB

Explanation:

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

B: Metric Alert with Dynamic Thresholds detection leverages advanced machine learning (ML) to learn metrics' historical behavior, identify patterns and anomalies that indicate possible service issues. It

provides support of both a simple UI and operations at scale by allowing users to configure alert rules through the Azure Resource Manager API, in a fully automated manner. Reference:

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

<https://docs.microsoft.com/en-us/azure/automation/automation-create-alert-triggered-runbook>

NEW QUESTION 92

- (Topic 4)

You have an Azure virtual machine that is monitored by using Azure Monitor. The virtual machine has the Azure Log Analytics agent installed.

You plan to deploy the Service Map solution from Azure Marketplace.

What should you deploy to the virtual machine to support the Service Map solution?

- A. the Telegraf agent
- B. the Azure Monitor agent
- C. the Dependency agent
- D. the Windows Azure diagnostics extension (WAD)

Answer: C

NEW QUESTION 97

- (Topic 4)

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

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

- Ensure that developers can track whether their commits are deployed to production.
- Report the deployment status.
- Minimize integration effort. Which system should you use?

- A. Trello
- B. Jira
- C. Basecamp
- D. Asana

Answer: B

Explanation:

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

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

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

Reference:

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

NEW QUESTION 99

- (Topic 4)

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

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

You have an Azure pipeline that is used to deploy a web app. The pipeline includes a test suite named TestSuite1. TestSuite1 is used to validate the operations of the web app.

TestSuite1 fails intermittently.

You identify that the failures are unrelated to changes in the source code and execution environment.

You need to minimize troubleshooting effort for the TestSuite1 failures. Solution: You enable Test Impact Analysis (TIA).

Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 101

DRAG DROP - (Topic 4)

You are creating a NuGet package.

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

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

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

Actions	Answer Area
Create a new Azure Artifacts feed.	
Configure a self-hosted agent.	
Publish a package. ⏪ ⏩	⏪ ⏩
Install a package.	
Connect to an Azure Artifacts feed.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Configure a self-hosted agent.

The build will run on a Microsoft hosted agent.

Step 2: Create a new Azure Artifacts feed

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

Step 3: Publish the package.

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

Step 4: Connect to an Azure Artifacts feed.

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

References:

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

NEW QUESTION 105

- (Topic 4)

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

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

Which artifact should you deploy?

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

Answer: B

Explanation:

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

Reference:

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

NEW QUESTION 108

- (Topic 4)

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

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

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

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

? Licensing violations

? Prohibited libraries

Solution: You implement automated security testing.

Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Instead use implement continuous integration.

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

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

NEW QUESTION 113

- (Topic 4)

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

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

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

You need to recommend changes to reduce the accumulated technical debt. Solution: You recommend reducing the code coupling and the dependency cycles?

Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Instead reduce the code complexity.

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

Reference:

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

NEW QUESTION 118

HOTSPOT - (Topic 4)

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

in Azure Pipelines named Pipeline1.

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

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

ARM template deployment View YAML Remove

Task version: 3.*

Display name: Deploy the Contoso Data Factory

Azure Details

Deployment scope: Resource Group

Azure Resource Manager connection: Microsoft Azure Sponsorship

Subscription: Microsoft Azure Sponsorship

Action: Create or update resource group

Resource group: ContosoRG

Location: East US

Template

Template location: Linked artifact

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

Template parameters:

Override template parameters:

Deployment mode: Complete

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

- Action
- Template location
- Deployment mode
- Deployment scope

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Deployment Mode
 Location specified in the Linked artifact variable

NEW QUESTION 123

HOTSPOT - (Topic 4)

Your company uses GitHub for source control. GitHub repositories store source code and store process documentation. The process documentation is saved as Microsoft Word documents that contain simple flow charts stored as .bmp files.

You need to optimize the integration and versioning of the process documentation and the flow charts. The solution must meet the following requirements:

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

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

Convert the .docx files to:

- LaTeX Typesetting (.tex)
- Markdown (.md)
- Portable Document Format (.pdf)

Convert the flow charts to:

- Mermaid graph diagrams (.md)
- Portable Network Graphics (.png)
- Tagged Image File Format (.tiff)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Markdown (.md)

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

Box 2: Mermaid diagrams

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

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

NEW QUESTION 124

- (Topic 4)

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

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

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

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

Does the meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

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

? Select the Triggers tab.

? Enable Continuous integration.

References:

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

NEW QUESTION 129

HOTSPOT - (Topic 4)

You have an Azure web app named webapp1 that uses the .NET Core runtime slack. You have an Azure Application insights resource named AppInsights1 that collects telemetry data generated by webapp1

You plan to deploy webapp1 by using an Azure DevOps pipeline.

You need to modify the sampling rate of the telemetry data processed by AppInsights1 without having to redeploy webapp1 after each modification.

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

Answer Area

From the code repository of webapp1:

- : Modify ApplicationInsights.config.
- : Disable adaptive sampling.
- : Enable fixed-rate sampling.
- : Modify ApplicationInsights.config.

From AppInsights1:

- Modify the Usage and estimated costs settings.
- Configure Continuous export.
- Configure the Smart Detection settings.
- Modify the Usage and estimated costs settings.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

From the code repository of webapp1:

- Modify ApplicationInsights.config.
- Disable adaptive sampling.
- Enable fixed-rate sampling.
- Modify ApplicationInsights.config.

From AppInsights1:

- Modify the Usage and estimated costs settings.
- Configure Continuous export.
- Configure the Smart Detection settings.
- Modify the Usage and estimated costs settings.

NEW QUESTION 134

- (Topic 4)

You have an Azure key vault named KV1 and three web servers. You plan to deploy an app named App1 to the web server. You need to ensure that App1 can retrieve a secret from KV1. The solution must meet the following requirements:

- Minimize the number of permission grants required
- Follow the principle of least privilege. What should you include in the solution?

- A. role-based access control (RBAQ permissions
- B. a system-assigned managed identity
- C. a user-assigned managed identity
- D. a service principal

Answer: B

NEW QUESTION 138

HOTSPOT - (Topic 4)

You have a project Azure DevOps.

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

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

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

NOTE: Each correct selection is worth one point.

```

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

```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```

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

```

NEW QUESTION 141

DRAG DROP - (Topic 4)

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

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 142

- (Topic 4)

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

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 147

- (Topic 4)

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: BD

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 148

SIMULATION - (Topic 4)

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

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

- A. Mastered
- B. Not Mastered

Answer: A

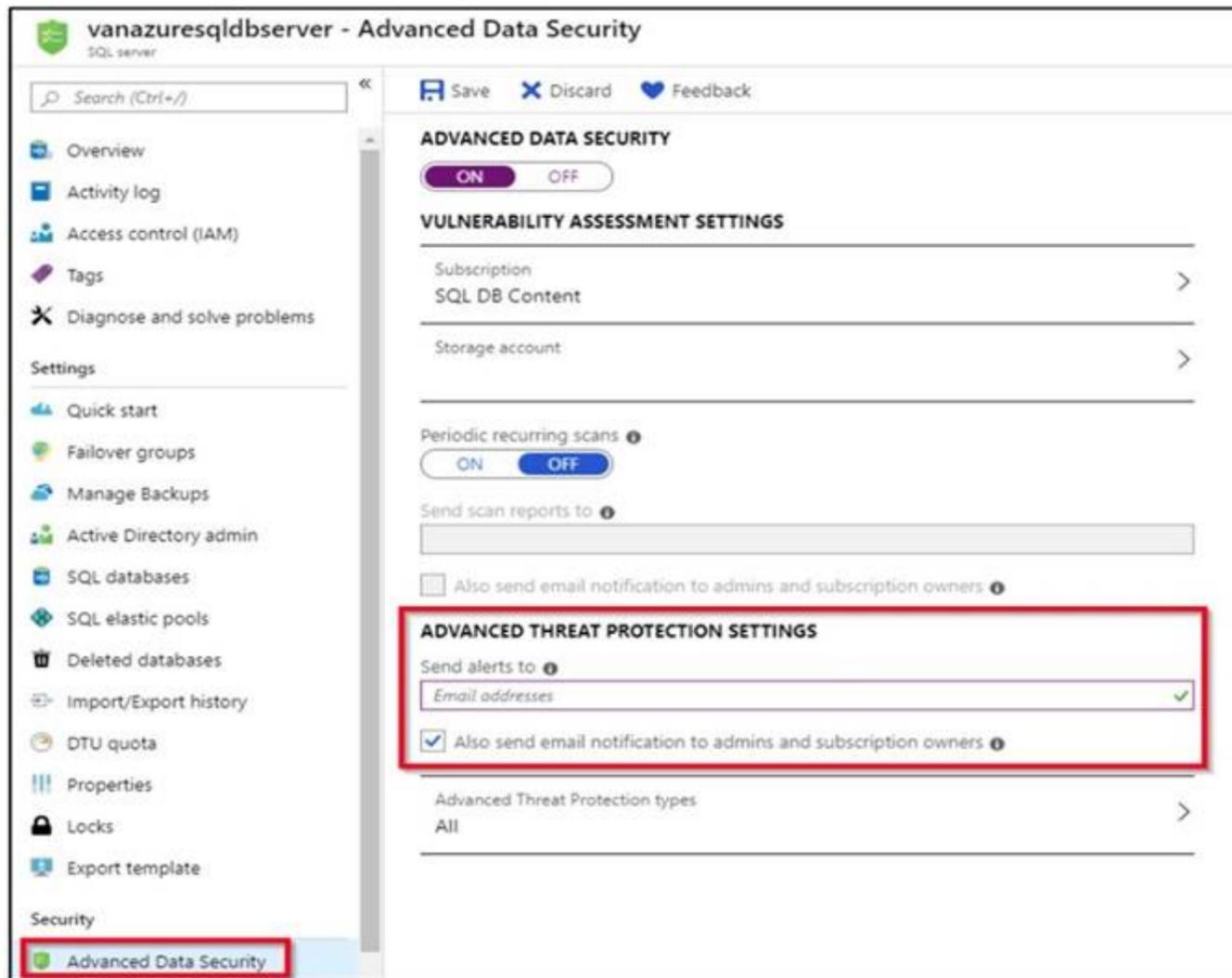
Explanation:

Set up Advanced Threat Protection in the Azure portal

* 1. Sign into the Azure portal.

* 2. Navigate to the configuration page of the server you want to protect. In the security settings, select Advanced Data Security.

* 3. On the Advanced Data Security configuration page:



* 4. Enable Advanced Data Security on the server.

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

NEW QUESTION 151

- (Topic 4)

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

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

What should you do?

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

Answer: A

Explanation:

There are three types of Application Insights availability tests:

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

? Multi-step web test

? Custom Track Availability Tests

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

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

Reference:

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

NEW QUESTION 155

- (Topic 4)

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

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

- A. Kusto Query Language (KQL)
- B. PL/pgSQL
- C. PL/SQL
- D. Transact-SQL

Answer: A

Explanation:

Azure Monitor Logs is based on Azure Data Explorer, and log queries are written using the same Kusto query language (KQL). This is a rich language designed to be easy to read and author, and you

should be able to start using it with minimal guidance. Reference:

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

NEW QUESTION 159

- (Topic 4)

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: D

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 163

- (Topic 4)

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

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

You configure alerts in Azure Monitor.

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

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

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

Answer: C

Explanation:

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

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

NEW QUESTION 168

- (Topic 4)

You have an on-premises app named App1 that accesses Azure resources by using credentials stored in a configuration file.

You plan to upgrade App1 to use an Azure service principal.

What is required for App1 to programmatically sign in to Azure Active Directory (Azure AD)?

- A. the application ID, a client secret, and the object ID
- B. a client secret, the object ID, and the tenant ID
- C. the application ID, a client secret, and the tenant ID
- D. the application ID, a client secret, and the subscription ID

Answer: C

Explanation:

<https://docs.microsoft.com/en-us/azure/active-directory/develop/app-objects-and-service-principals> "When you've completed the app registration, you've a globally unique instance of the app (the application object) which lives within your home tenant or directory. You also have a globally unique ID for your app (the app or client ID). In the portal, you can then add secrets or certificates and scopes to make your app work, customize the branding of your app in the sign-in dialog, and more."

NEW QUESTION 172

- (Topic 4)

Your company uses Azure Artifacts for package management.

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

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

Answer: A

Explanation:

Get started with Python packages in Azure Artifacts Create a feed

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

? On the Artifacts page, select Create Feed.

? In the Create new feed dialog box:

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

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

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

NEW QUESTION 174

- (Topic 4)

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

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

You manage a project in Azure DevOps.

You need to prevent the configuration of the project from changing over time. Solution: Add a code coverage step to the build pipelines.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead implement Continuous Assurance for the project.

Reference:

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

NEW QUESTION 176

HOTSPOT - (Topic 4)

You have a project in Azure DevOps that contains a release pipeline. The pipeline contains two stages named QA and Prod. QA deploys code to an Azure web app named webapp1. Prod deploys code to an Azure web app named webapp2.

You need to ensure that code deployments to webapp2 are blocked if Azure Application Insights generates Failed requests alerts following the deployment of new code to webapp1.

What should you do for each stage? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

QA: Add a task to configure alert rules in Application Insights.
 Configure a gate in the pre-deployment conditions.
 Configure an auto-redeploy trigger in the post-deployment conditions
 Configure a post-deployment approval in the post-deployment conditions

Prod: Add a task to configure an alert rule in Application Insights.
 Configure a gate in the pre-deployment conditions.
 Configure a trigger in the pre-deployment conditions.
 Configure the Deployment queue settings in the pre-deployment conditions.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

QA: Add a task to configure alert rules in Application Insights.
 Configure a gate in the pre-deployment conditions.
 Configure an auto-redeploy trigger in the post-deployment conditions
 Configure a post-deployment approval in the post-deployment conditions

Prod: Add a task to configure an alert rule in Application Insights.
 Configure a gate in the pre-deployment conditions.
 Configure a trigger in the pre-deployment conditions.
 Configure the Deployment queue settings in the pre-deployment conditions.

NEW QUESTION 181

HOTSPOT - (Topic 4)

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

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

? Ensure that the secrets are retrieved by Azure DevOps.

? Avoid persisting credentials and tokens in Azure DevOps.

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

NOTE: Each correct selection is worth one point.

Service connection type:

▼
Azure Resource Manager
Generic service
Team Foundation Server / Azure Pipelines service connection

Authentication/authorization method for the connection:

▼
Azure Active Directory OAuth 2.0
Grant authorization
Managed Service Identity Authentication

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Azure Pipelines service connection

Box 2: Managed Service Identity Authentication

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

NEW QUESTION 183

- (Topic 4)

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

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

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

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

You need to recommend a solution to deploy the resources.

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

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

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

NEW QUESTION 187

- (Topic 4)

You have an existing build pipeline in Azure Pipelines.

You need to use incremental builds without purging the environment between pipeline executions.

What should you use?

- A. a File Transform task
- B. a self-hosted agent
- C. Microsoft-hosted parallel jobs

Answer: B

Explanation:

When you run a pipeline on a self-hosted agent, by default, none of the subdirectories are cleaned in between two consecutive runs. As a result, you can do incremental builds and deployments, provided that tasks are implemented to make use of that. You can override this behavior using the workspace setting on the job.

Reference:

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

NEW QUESTION 191

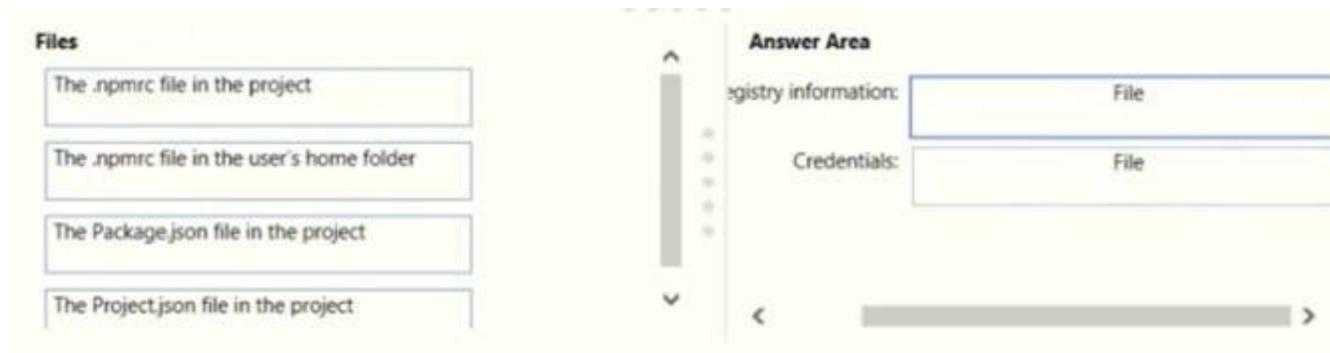
DRAG DROP - (Topic 4)

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

You need to configure the development environment to connect to the package repository. The solution must minimize the likelihood that credentials will be leaked.

Which file should you use to configure each connection? To answer, drag the appropriate files to the correct connections. Each file may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content

NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

Feed registry information: The .npmrc file in the project

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

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

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

References:

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

NEW QUESTION 195

SIMULATION - (Topic 4)

You need to ensure that the <https://contoso.com/statushook> webhook is called every time a repository named az40010480345acr1 receives a new version of an image named dotnetapp.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

? Sign in to the Azure portal.

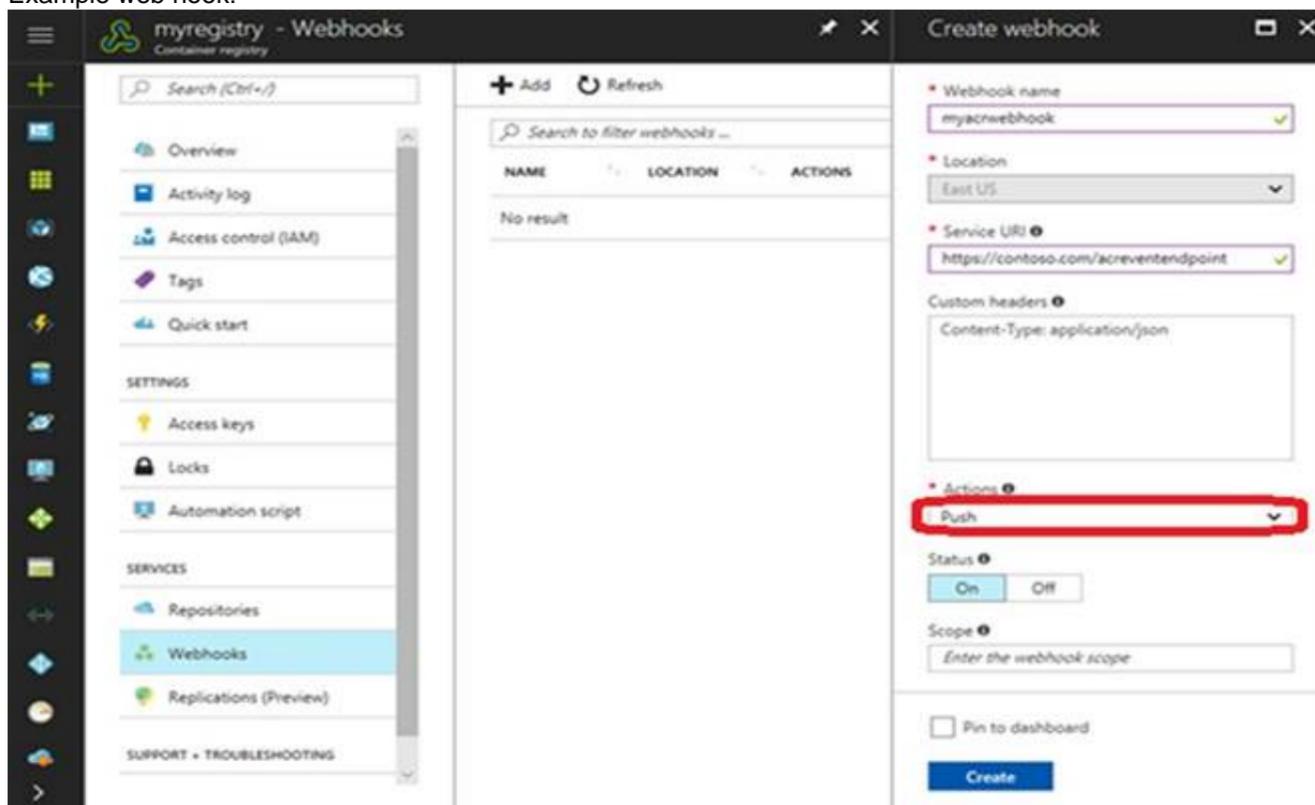
? Navigate to the container registry az40010480345acr1.

? Under Services, select Webhooks.

? Select the existing webhook <https://contoso.com/statushook>, and double-click on it to get its properties.

? For Trigger actions select image push

Example web hook:



NEW QUESTION 200

DRAG DROP - (Topic 4)

You have an Azure Pipeline.

You need to store configuration values as variables.

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

Scopes	Answer Area
task	
job	
stage	
pipeline root	
pipeline settings UI	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 205

- (Topic 4)

You have a brand 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: B

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 the with other Git permissions.
 References: <https://docs.microsoft.com/en-us/azure/devops/repos/git/branch-policies>

NEW QUESTION 206

DRAG DROP - (Topic 4)

You have an Azure Kubernetes Service (AKS) cluster. You need to deploy an application to the cluster by using Azure DevOps. Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Create a service account in the cluster.	
Create a service principal in Azure Active Directory (Azure AD).	
Add an Azure Function App for Container task to the deployment pipeline.	
Add a Helm package and deploy a task to the deployment pipeline.	
Add a Docker Compose task to the deployment pipeline.	
Configure RBAC roles in the cluster.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

You can set up a CI/CD pipeline to deploy your apps on a Kubernetes cluster with Azure DevOps by leveraging a Linux agent, Docker, and Helm.

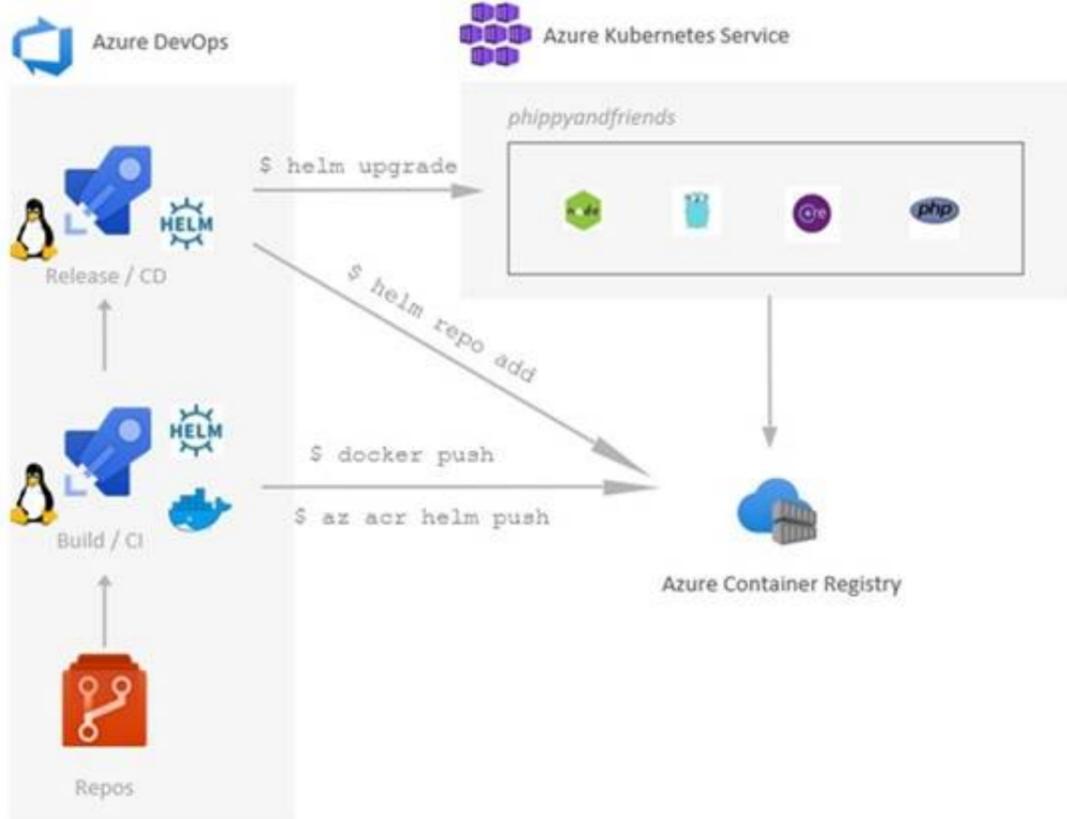
Step 1: Create a service principle in Azure Active Directory (Azure AD)

We need to assign 3 specific service principals with specific Azure Roles that need to interact with our ACR and our AKS.

Create a specific Service Principal for our Azure DevOps pipelines to be able to push and pull images and charts of our ACR.

Create a specific Service Principal for our Azure DevOps pipelines to be able to deploy our application in our AKS.

Step 2: Add a Helm package and deploy a task to the deployment pipeline This is the DevOps workflow with containers:



Step 3: Add a Docker Compose task to the deployment pipeline.

Dockerfile file is a script leveraged by Docker, composed of various commands (instructions) and arguments listed successively to automatically perform actions on a base image in order to create a new Docker image by packaging the app.

NEW QUESTION 207

DRAG DROP - (Topic 4)

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

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

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

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

NOTE: Each correct selection is worth one point.

Values	Answer Area
git clone	...
git fetch	cd repos
git sparse-checkout	<input type="text"/> https://dev.azure.com/organisation/_git/Repo1
git worktree	<input type="text"/> set directory1
scalar clone	...
scalar run	...

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Values	Answer Area
git clone	...
git fetch	cd repos
git sparse-checkout	git clone https://dev.azure.com/organisation/_git/Repo1
git worktree	git sparse-checkout set directory1
scalar clone	...
scalar run	...

NEW QUESTION 210

DRAG DROP - (Topic 4)

You need to use Azure Automation Sure 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.

Actions

Answer Area

- Onboard the virtual machines to Azure Automation State Configuration.
- Check the compliance status of the node.
- Create a management group.
- Assign the node configuration.
- Compile a configuration into a node configuration.
- Upload a configuration to Azure Automation State Configuration.
- Assign tags to the virtual machines.



- A. Mastered
- B. Not Mastered

Answer: A

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 ApplyandMonitor 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 215

SIMULATION - (Topic 4)

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.

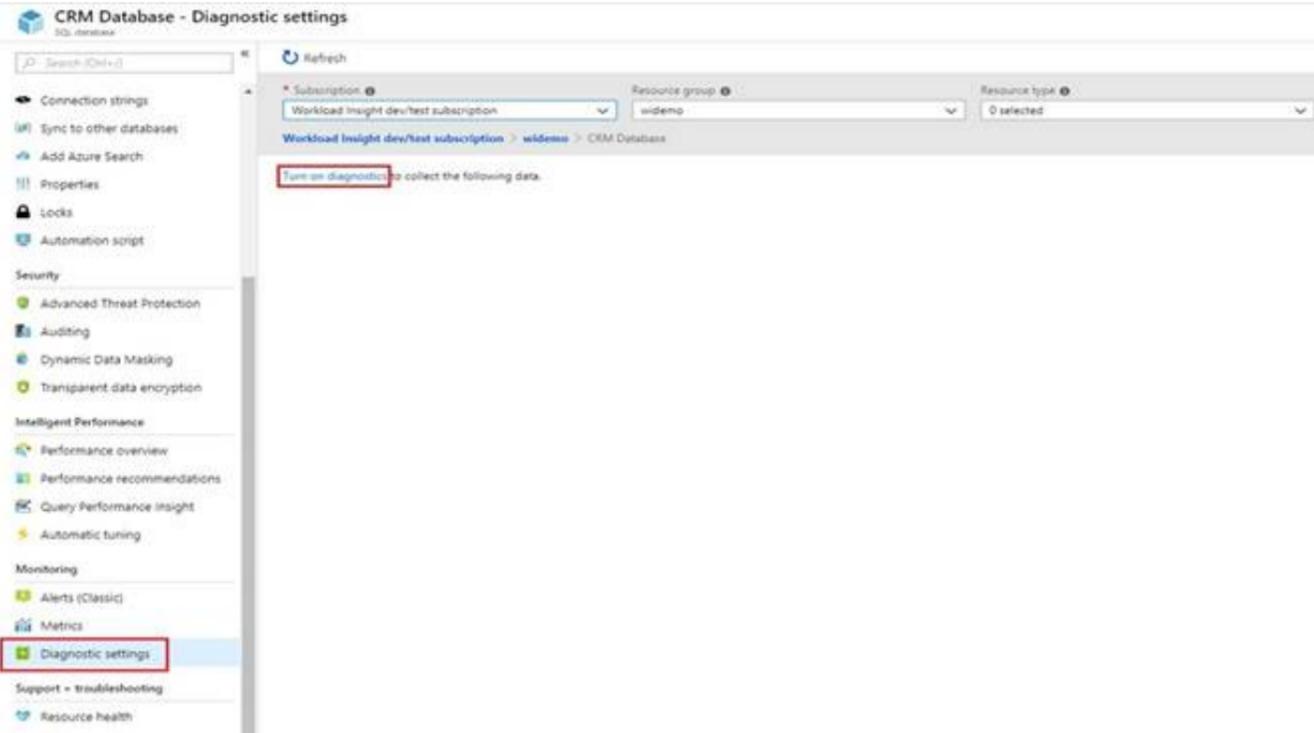
- A. Mastered
- B. Not Mastered

Answer: A

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.



Graphical user

* 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: Query Store Runtime Statistics

Diagnostics settings ✕

Save ✕ Discard 🗑 Delete

*** Name**

Archive to a storage account

Stream to an event hub

Send to Log Analytics

Subscription

Log Analytics Workspace

LOG

SQLInsights

AutomaticTuning

QueryStoreRuntimeStatistics

QueryStoreWaitStatistics

Errors

DatabaseWaitStatistics

Timeouts

Blocks

Deadlocks

METRIC

Basic

- * 8. For an advanced, one-minute-based monitoring experience, select the check box for Basic metrics.
- * 9. Select Save.

NEW QUESTION 219

SIMULATION - (Topic 4)

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

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

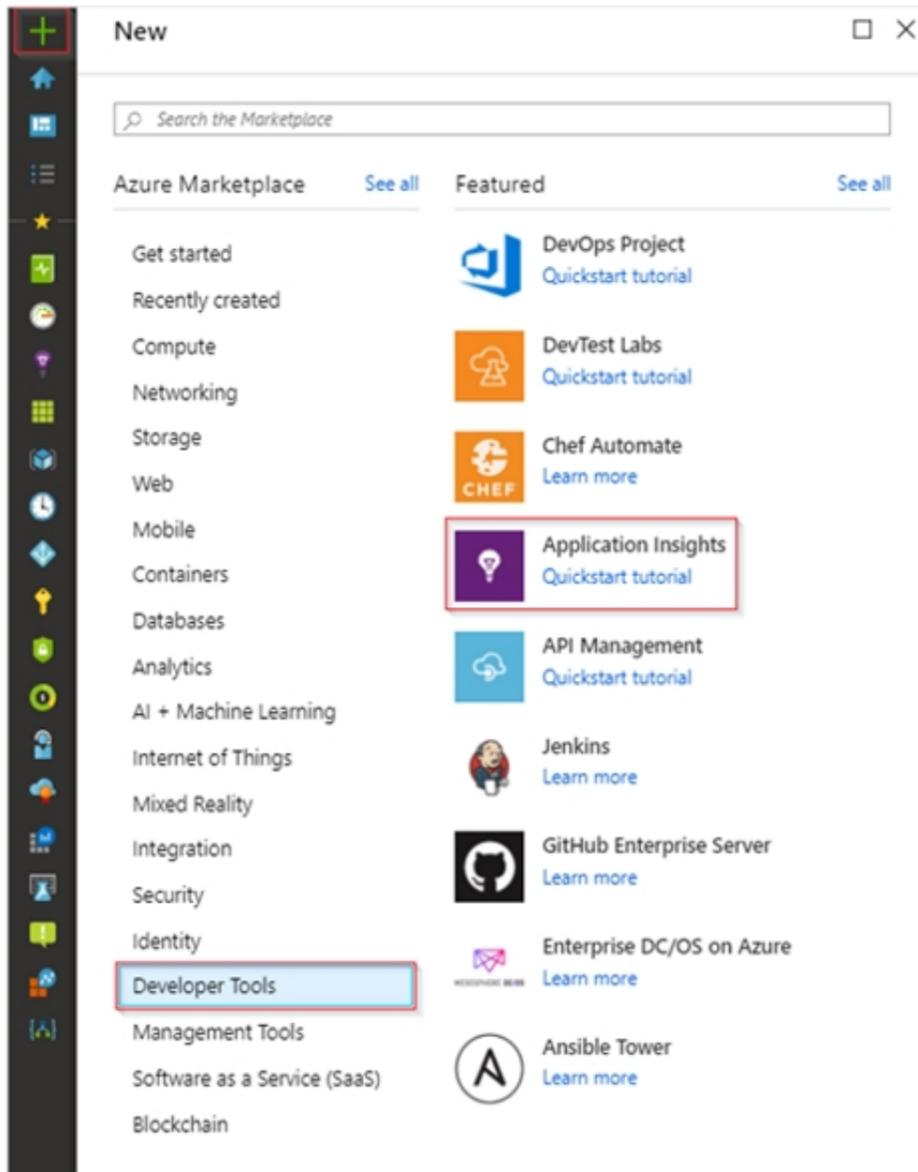
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

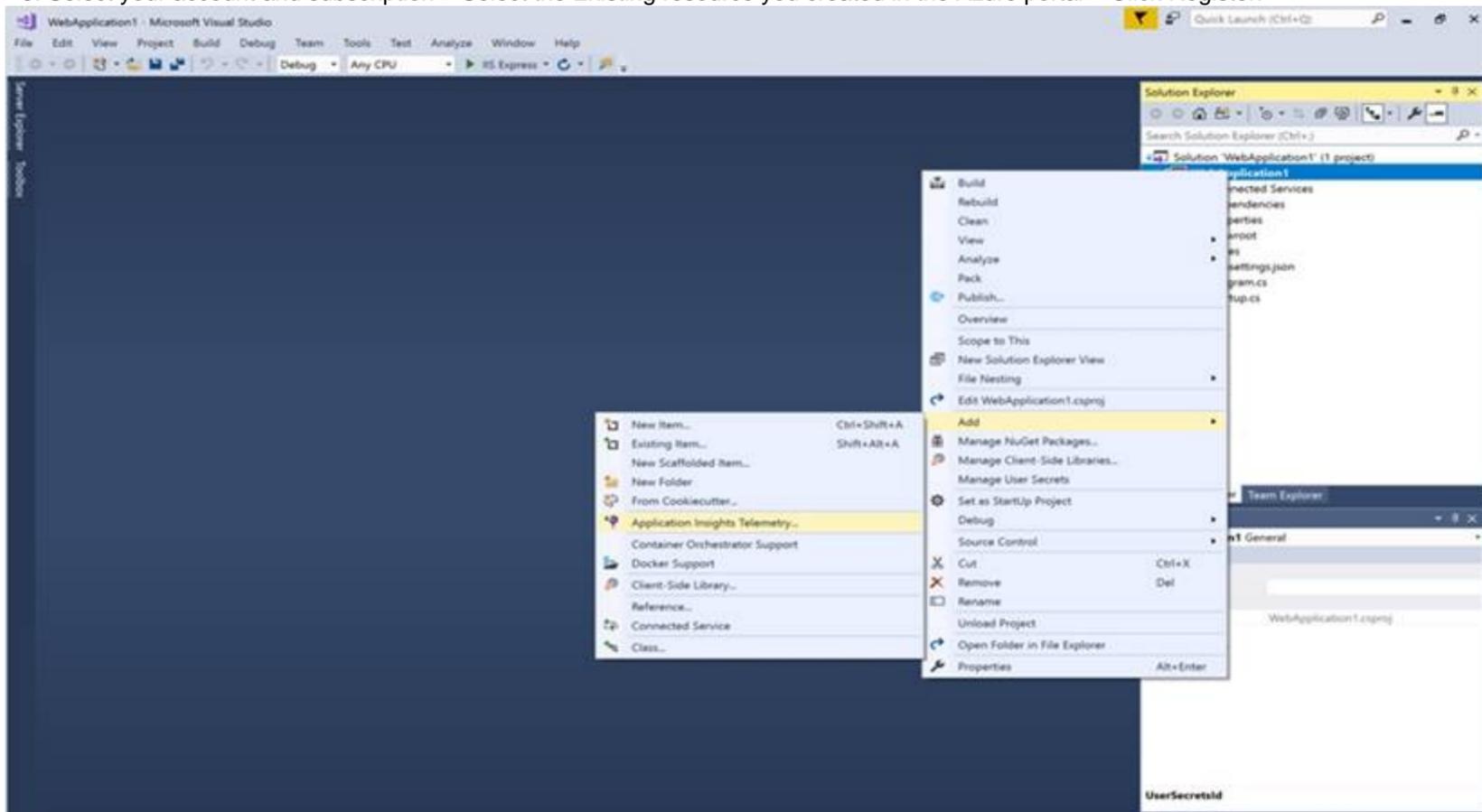
Step 1: Create an instance of Azure Application Insights

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



Step 2: Configure App Insights SDK

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



NEW QUESTION 223

- (Topic 4)

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: CE

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 227

- (Topic 4)

You are creating a dashboard in Azure Boards.

You need to visualize the time from when work starts on a work item until the work item is closed.

Which type of widget should you use?

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

Answer: D

NEW QUESTION 231

DRAG DROP - (Topic 4)

You are implementing a new project in Azure DevOps.

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

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

Which DevOps KPI should you review for each metric? To answer drag the appropriate KPIs to the correct metric. Each KPI may be used once, more than once, or not at all. You may need to drag the spirt bar between panes or scroll to view content.

NOTE Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 233

DRAG DROP - (Topic 4)

You have an Azure Repos repository named repo1.

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

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

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

NOTE: Each correct selection is worth one point

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 235

- (Topic 4)

unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result these questions will not appear in the review screen. You integrate a cloud-hosted Jenkins server and a new Azure DevOps deployment. You need Azure DevOps to send a notification to Jenkins when a developer commits changes to a branch in Azure Repos.

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

- A. Yes
- B. No

Answer: B

Explanation:

You can create a service hook for Azure DevOps Services and TFS with Jenkins. However, the service subscription event should use the code pushed event, is triggered when the code is pushed to a Git repository.

NEW QUESTION 237

FILL IN THE BLANK - (Topic 4)

You have an Azure subscription that contains Azure DevOps build pipelines. You to implement pipeline caching by using the cache task. HOW should you complete the YAML definition? TO answer, select the appropriate options in the answer area.

```
inputs:
  [ ]
  [ ]
  "yarn" | "$(Agent.OS)" | yarn.lock'
  $(YARN_CACHE_FOLDER)

displayName: Cache Yarn packages
- script: yarn --frozen-lockfile
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
inputs:
  key: "yarn" | "$(Agent.OS)" | yarn.lock'
  path: $(YARN_CACHE_FOLDER)

displayName: Cache Yarn packages
- script: yarn --frozen-lockfile
```

NEW QUESTION 239

- (Topic 4)

You have an Azure DevOps project that contains a build pipeline. The build pipeline uses approximately 50 open source libraries. You need to ensure that all the open source libraries comply with your company's licensing standards. Which service should you use?

- A. NuGet

- B. Maven
- C. Black Duck
- D. Helm

Answer: C

Explanation:

Secure and Manage Open Source Software

Black Duck helps organizations identify and mitigate open source security, license compliance and code-quality risks across application and container portfolios. Black Duck Hub and its plugin for Team Foundation Server (TFS) allows you to automatically find and fix open source security vulnerabilities during the build process, so you can proactively manage risk. The integration allows you to receive alerts and fail builds when any Black Duck Hub policy violations are met.

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

<https://marketplace.visualstudio.com/items?itemName=black-duck-software.hub-tfs>

NEW QUESTION 244

SIMULATION - (Topic 4)

You need to configure an Azure web app named az400-9940427-main to contain an environmental variable named "MAX_ITEMS". The environmental variable must have a value of 50.

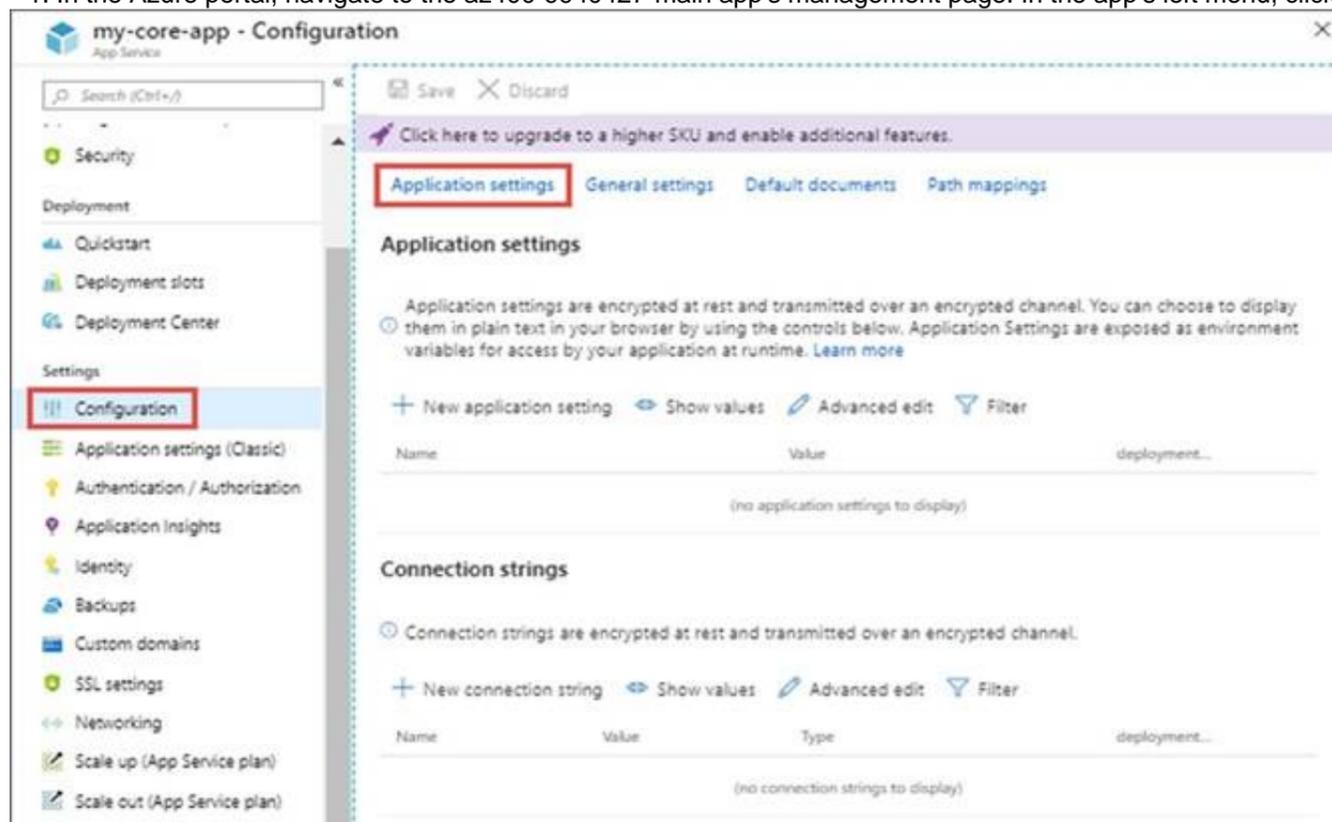
To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

* 1. In the Azure portal, navigate to the az400-9940427-main app's management page. In the app's left menu, click Configuration > Application settings.



* 2. Click New Application settings

* 3. Enter the following:

? Name: MAX_ITEMS

? Value: 50

References:

<https://docs.microsoft.com/en-us/azure/app-service/configure-common>

NEW QUESTION 249

DRAG DROP - (Topic 4)

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

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

Actions	Answer Area
Create a package.	
Add an Azure Resource Group Deployment task.	
Create a job agent.	
Create a release pipeline.	
Set the template parameters.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create a release pipeline You need to create a new pipeline.

You can integrate Azure Resource Manager templates (ARM templates) with Azure Pipelines for continuous integration and continuous deployment (CI/CD).
 Step 2: Add an Azure Resource Group Deployment task Step 3: Set the template parameters

NEW QUESTION 252

- (Topic 4)

You are developing an open source solution that uses a GitHub repository. You create a new public project in Azure DevOps. You plan to use Azure Pipelines for continuous build. The solution will use the GitHub Checks API.

Which authentication type should you use?

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

Answer: C

Explanation:

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

NEW QUESTION 256

- (Topic 4)

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

You plan to create a pull request in GitHub.

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

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

NOTE: Each correct selection is worth one point.

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

Answer: CD

Explanation:

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

Reference:

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

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

NEW QUESTION 257

HOTSPOT - (Topic 4)

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



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

NOTE: Each correct selection is worth one point.

How many stages have triggers set?

0
1
2
3
4
5
6
7

Which component should you modify to enable continuous delivery?

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 261

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

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

Answer: B

NEW QUESTION 262

- (Topic 4)
 Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
 After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
 You use Azure Pipelines to build and test a React.js application. You have a pipeline that has a single job.
 You discover that installing JavaScript packages from 9pm takes approximately five minutes each time you run the pipeline.
 You need to recommend a solution to reduce the pipeline execution time. Solution: You recommend using pipeline artifacts.
 Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

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

NEW QUESTION 264

- (Topic 4)
 You plan to share packages that you wrote, tested, validated, and deployed by using Azure Artifacts.
 You need to release multiple builds of each package by using a single feed. The solution must limit the release of packages that are in development.
 What should you use?

- A. global symbols
- B. local symbols

- C. upstream sources
- D. views

Answer: C

Explanation:

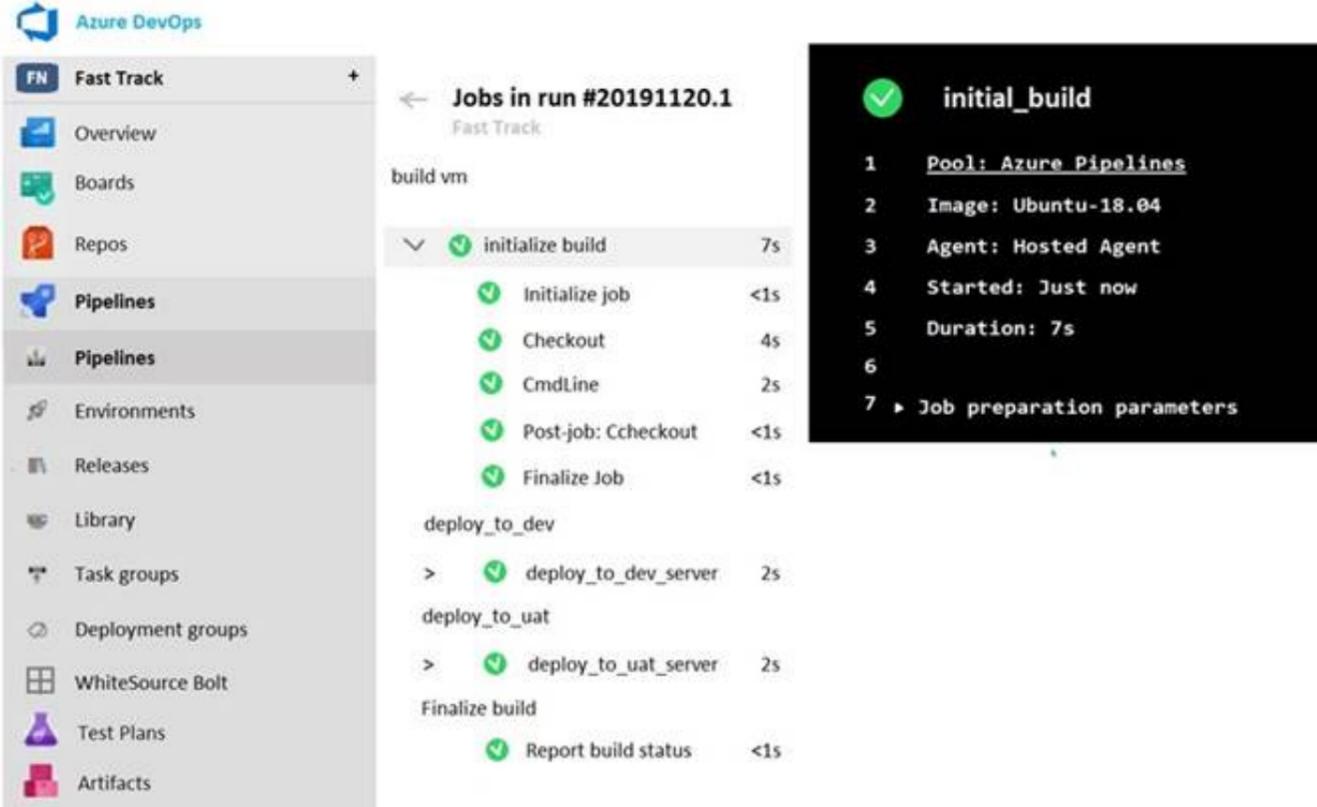
Views enable you to share subsets of the NuGet, npm, Maven, Python and Universal Packages package-versions in your feed with consumers. A common use for views is to share package versions that have been tested, validated, or deployed but hold back packages still under development and packages that didn't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

NEW QUESTION 267

HOTSPOT - (Topic 4)

Your company uses Azure DevOps to deploy infrastructures to Azure. Pipelines are developed by using YAML.

You execute a pipeline and receive the results in the web portal for Azure Pipelines as 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.

The pipeline contains

	▼
one stage	
two stages	
three stages	
four stages	
five stages	

Build_vm contains

	▼
one job	
two jobs	
three jobs	
four jobs	
five jobs	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The pipeline contains

	▼
one stage	
two stages	
three stages	
four stages	
five stages	

Build_vm contains

	▼
one job	
two jobs	
three jobs	
four jobs	
five jobs	

NEW QUESTION 270

HOTSPOT - (Topic 4)

You are finalizing a release in GitHub.

You need to apply the following labels to the release:

- ? Name
- ? Email
- ? Release v3.0
- ? Release date

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

NOTE: Each correct selection is worth one point.

git

	▼		▼	v3.0		▼	"Release v3.0"
add		-a		-		-a	
commit		-b		-		-b	
push		-c		-		-c	
tag		-m		-		-m	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1; tag

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

Box 2: -a

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

Example:

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

Box 3: -m

NEW QUESTION 271

DRAG DROP - (Topic 4)

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

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

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

NOTE: Each correct selection is worth one point.

Values

- dotnet publish -c Release -o out
- dotnet restore
- microsoft/dotnet:2.2-aspnetcore-runtime
- Microsoft/dotnet:2.2-sdk

Answer Area

```
FROM  As build-env
COPY . /app/
WORKDIR /app
RUN 
FROM 
COPY --from=build-env /app/out /app
WORKDIR /app
ENTRYPOINT ["dotnet", "MvcMovie.dll"]
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

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

Box 2: dotnet restore

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

COPY *.csproj ./ RUN dotnet restore

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

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

NEW QUESTION 273

- (Topic 4)

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

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

What should you use?

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

Answer: A

NEW QUESTION 278

DRAG DROP - (Topic 4)

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

Which type of security tool should you recommend for each stage of the development process? To answer, drag the appropriate security toots to the correct stages. Each security tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content

NOTE: Each correct selection is worth one point.

Security Tools	Answer Area
<input type="text" value="Penetration testing"/>	Pull request: <input type="text"/>
<input type="text" value="Static code analysis"/>	Continuous integration: <input type="text"/>
<input type="text" value="Threat modeling"/>	Continuous delivery: <input type="text"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

So:

PR: Static Code Analysis CI: Static Code Analysis CD: PenTest

NEW QUESTION 282

- (Topic 4)

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

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 287

- (Topic 4)

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

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

What should you configure in Azure AD?

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

Answer: D

Explanation:

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

Reference:

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

NEW QUESTION 290

- (Topic 4)

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

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

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

Answer: C

Explanation:

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

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

NEW QUESTION 294

DRAG DROP - (Topic 4)

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

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

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

Answer Area

Objects

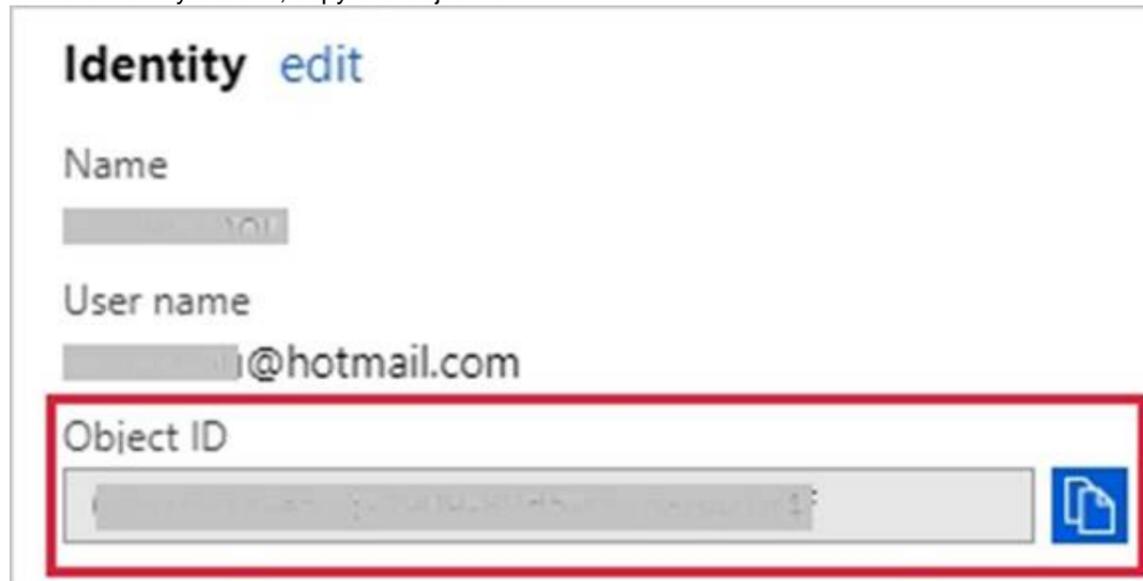
- a system-assigned managed identity
- a cluster
- an application registration in contoso.com
- an RBAC binding

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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



Step 3: a RBAC binding

NEW QUESTION 296

DRAG DROP - (Topic 4)

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

Which Application Insights tool should you use to analyze each behavior? To answer, drag the appropriate tools to the correct behaviors. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: User Flows

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

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

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

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

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

Box 3: Impact

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

NEW QUESTION 298

- (Topic 4)

You are designing the development process for your company.

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

What should you include in the recommendation?

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

Answer: C

Explanation:

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

SonarQube is a widely

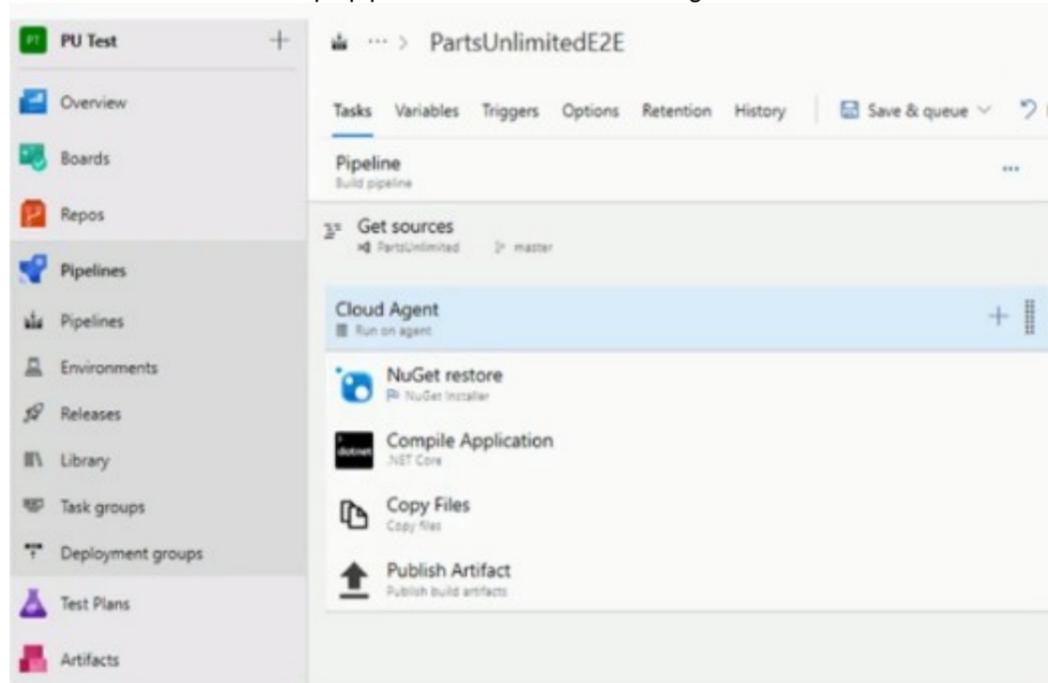
adopted open source platform to inspect continuously the quality of source code and detect bugs, vulnerabilities and code smells in more than 20 different languages.

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

NEW QUESTION 301

HOTSPOT - (Topic 4)

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



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

Answer Area

The pipeline has job(s).

The pipeline has task(s).

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: 1
 The Cloud agent job only.

Box 2: 4
 The pipelines has the four tasks: NuGet restore, Compile Application, Copy Files, and Publish Artifact.

NEW QUESTION 303

- (Topic 4)

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

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

Answer: B

NEW QUESTION 305

HOTSPOT - (Topic 4)

You have an Azure Kubernetes Service (AKS) pod.

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

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

NOTE: Each correct selection is worth one point.

```

apiVersion: v1
kind: Pod
metadata:
  labels:
    test: readiness-and-liveness
  name: readiness-http
spec:
  containers:
  - name: container1
    image: k8s.gcr.io/readiness-and-liveness
    args:
    - /server
    livenessProbe:
    readinessProbe:
    ShutdownProbe:
    startupProbe:
    httpGet:
      path: /checknow
      port: 8123
      httpHeaders:
      - name: Custom-Header
        value: CheckNow
  
```

livenessProbe:
readinessProbe:
ShutdownProbe:
startupProbe:

```

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

initialDelaySeconds: 15
periodSeconds: 15
timeoutSeconds: 15

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: readiness Probe:

For containerized applications that serve traffic, you might want to verify that your container is ready to handle incoming requests. Azure Container Instances supports readiness probes to include configurations so that your container can't be accessed under certain conditions.

NEW QUESTION 306

- (Topic 4)

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

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

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

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

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

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

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

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a gate instead of an approval instead.

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

NEW QUESTION 308

- (Topic 4)

Note: This question is part of * 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 sett 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 poky stating that approvals must occur within eighthour.

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

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a gate From Pre-deployment conditions instead.

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

NEW QUESTION 311

DRAG DROP - (Topic 4)

You create a Git repository named Repo1 in Azure Repos.

You need to configure Repo1 to meet the following requirements:

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

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

Which type of policy should you use for each requirement? To answer, drag the appropriate policy types to the correct requirements. Each policy type may be used once, more than once, or not at all.

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 314

- (Topic 4)

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

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

- A. an Azure Automation account
- B. an Azure Artifacts Credential Provider
- C. an Azure Active Directory (Azure AD) account that has multi-factor authentication (MFA) enabled
- D. an Azure Active Directory (Azure AD) service principal D18912E1457D5D1DDCDBD40AB3BF70D5D

Answer: B

Explanation:

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

Reference:

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

NEW QUESTION 315

- (Topic 4)

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

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

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

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

Project1.
Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

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

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

Reference:

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

NEW QUESTION 317

- (Topic 4)

Your company creates a new Azure DevOps team. D18912E1457D5D1DDCDBD40AB3BF70D5D

You plan to use Azure DevOps for sprint planning.

You need to visualize the flow of your work by using an agile methodology. Which Azure DevOps component should you use?

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

Answer: A

Explanation:

Customizing Kanban boards

To maximize a team's ability to consistently deliver high quality software, Kanban emphasize two main practices. The first, visualize the flow of work, requires you to map your team's workflow stages and configure your Kanban board to match. Your Kanban board turns your backlog into an interactive signboard, providing a visual flow of work.

Reference: <https://azuredevopslabs.com/labs/azuredevops/agile/>

NEW QUESTION 320

- (Topic 4)

You have an Azure subscription that contains multiple Azure pipelines.

You need to deploy a monitoring solution for the pi*lines. The solution must meet the following requirements:

- ? Parse logs from multiple sources.
- ? identify the root cause of issues.

What advanced feature of a monitoring tool should include in the solution?

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

Answer: B

NEW QUESTION 325

- (Topic 4)

You are designing a YAML template for use with Azure Pipelines. The template Will include the Outputfile parameter.

Which two methods can you use to reference the parameter? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. `$(parameters['outputfile'])`
- B. `${{parameters.outputfile}}`
- C. `$(parameters.outputfile)`
- D. `$(parameters[outputfile])`
- E. `${{parameters['outputfile']}}`

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

Answer: CD

NEW QUESTION 326

- (Topic 4)

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

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

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

What should you add to the commit message?

- A) `Fixes #456, #457, #458`
- B) `Fixes #AB456, #AB457, #AB458`
- C) `#456, #457, #458`
`Completed #456`
- D) `#AB456, #AB457, #AB458`

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

Answer: D

NEW QUESTION 331

- (Topic 4)

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: CE

Explanation:

References:

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

NEW QUESTION 333

- (Topic 4)

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: B

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 338

- (Topic 4)

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

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

You manage a project in Azure DevOps.

You need to prevent the configuration of the project from changing over time. Solution: Implement Continuous Assurance for the project.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

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

lets us treat security truly as a 'state' as opposed to a 'point in time' achievement. This is particularly important in today's context when 'continuous change' has become a norm.

There can be two types of drift:

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

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

Reference:

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

NEW QUESTION 343

- (Topic 4)

You have an Azure DevOps organization named Contoso and an Azure DevOps project named Project1.

You plan to use Microsoft-hosted agents to build container images that will host full Microsoft .NET Framework apps in a YAML pipeline in Project1.

What are two possible virtual machine images that you can use for the Microsoft-hosted agent pool? Each

correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. vs2017-win2016
- B. ubuntu-16.04
- C. win1803
- D. macOS-10.13
- E. vs.2015-win2012r2

Answer: AE

Explanation:

<https://github.com/microsoft/azure-pipelines-image-generation/blob/d80f81d6c98f8ce2c74b034309bb774ea8d31cfb/images/win/Vs2015-Server2012R2-Readme.md>

<https://github.com/actions/virtual-environments/blob/master/images/win/Windows2016-Readme.md>

NEW QUESTION 347

SIMULATION - (Topic 4)

You need to ensure that an Azure web app named az400-9940427-main supports rolling upgrades. The solution must ensure that only 10 percent of users who connect to az400- 9940427-main use update versions of the app.
 The solution must minimize administrative effort.
 To complete this task, sign in to the Microsoft Azure portal.

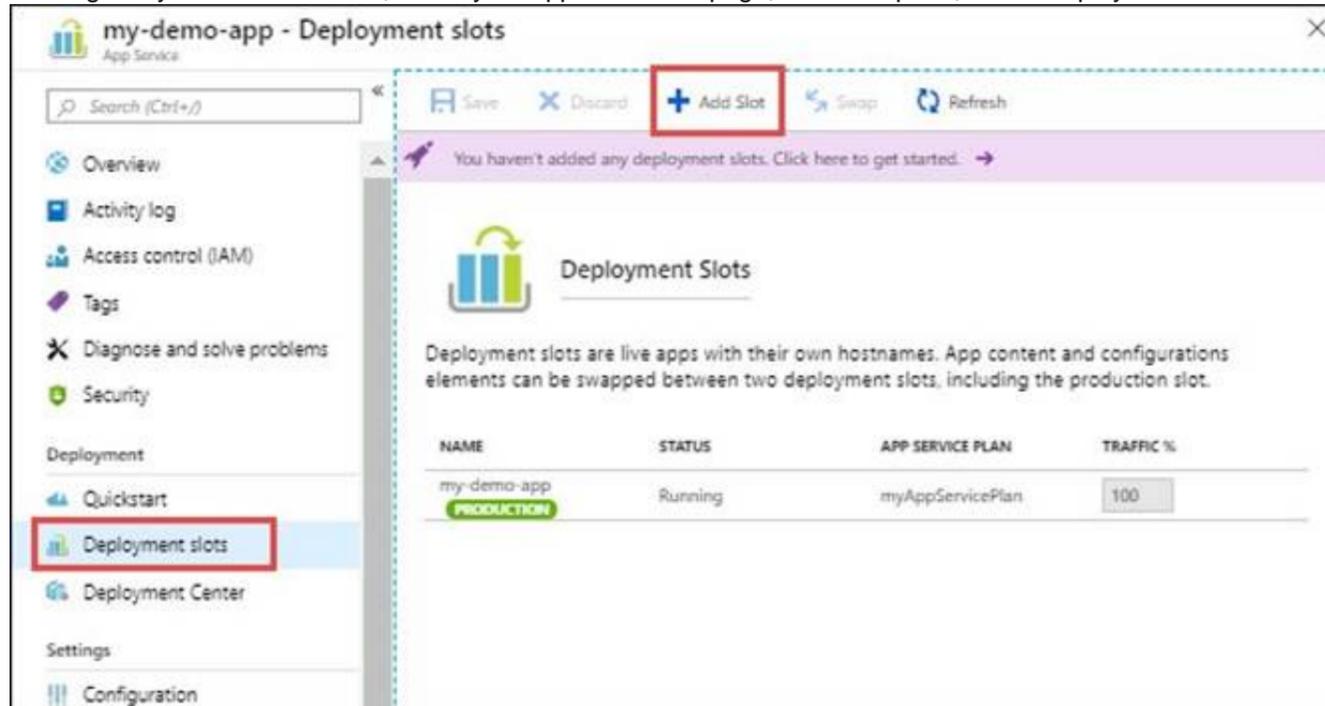
- A. Mastered
- B. Not Mastered

Answer: A

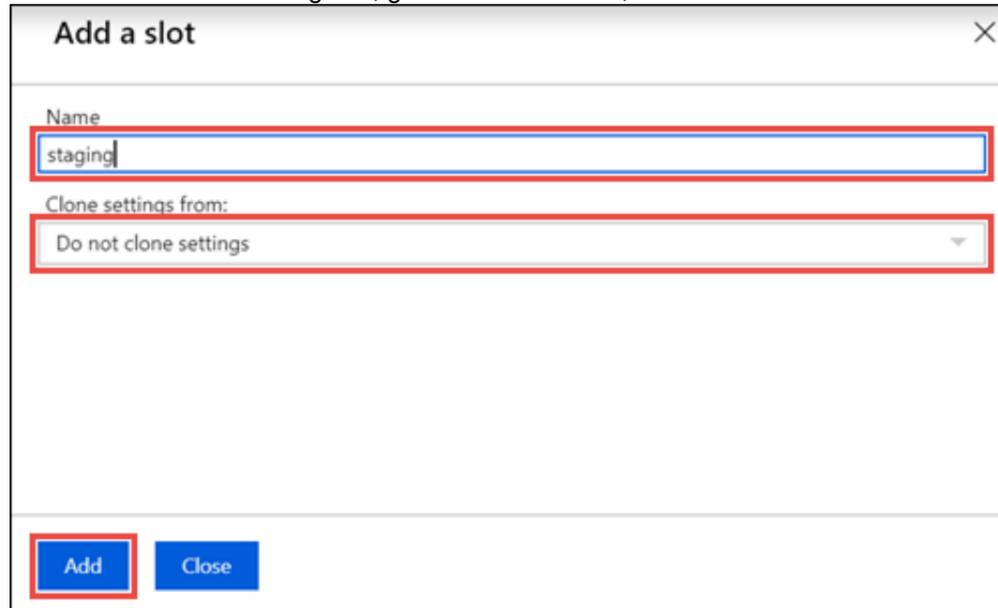
Explanation:

Set up staging environments in Azure App Service

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

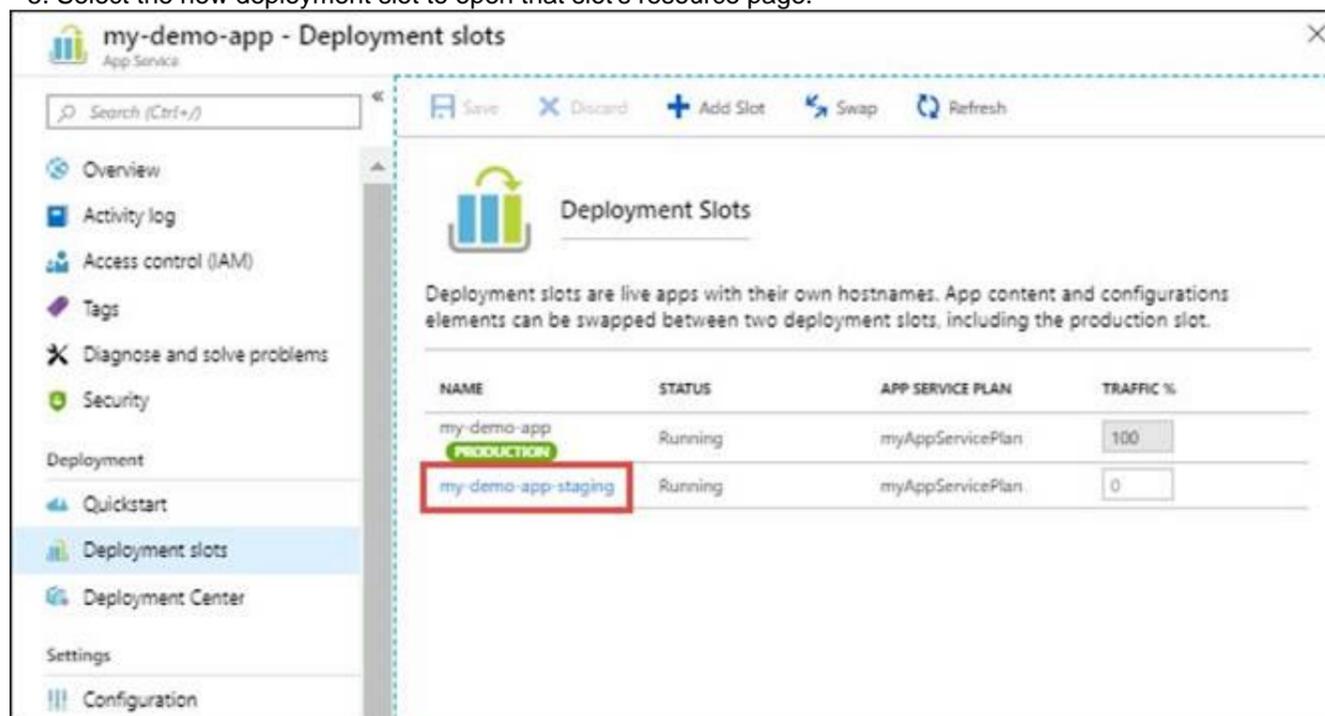


- * 3. In the Add a slot dialog box, give the slot a name, and select whether to clone an app configuration from another deployment slot. Select Add to continue.



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

- * 5. Select the new deployment slot to open that slot's resource page.



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

NEW QUESTION 352

- (Topic 4)

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

After you answer a question m 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 lo send a notification to Jenkins when a developer commits

changes to a branch in Azure Repos.

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

- A. Yes
- B. NO

Answer: B

Explanation:

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

References:

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

NEW QUESTION 355

- (Topic 4)

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

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

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

Answer: A

Explanation:

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

References:

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

NEW QUESTION 358

- (Topic 4)

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

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

Answer: C

Explanation:

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

Reference:

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

NEW QUESTION 363

- (Topic 4)

You use Azure Pipelines to manage project builds and deployments.

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

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

Answer: C

Explanation:

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

Reference:

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

NEW QUESTION 365

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