

Exam Questions AZ-400

Microsoft Azure DevOps Solutions (beta)

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



NEW QUESTION 1

- (Exam Topic 4)

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

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

git main
 git restore main~3 App.exe.config

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 2

- (Exam 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 3

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

Answer: C

NEW QUESTION 4

- (Exam Topic 4)

Your company uses Azure DevOps for the build pipelines and deployment pipelines of Java-based projects. You need to recommend a strategy for managing technical debt.

Which action should you include in the recommendation?

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

Answer: B

Explanation:

You can manage technical debt with SonarQube and Azure DevOps.

Note: Technical debt is the set of problems in a development effort that make forward progress on customer value inefficient. Technical debt saps productivity by making code hard to understand, fragile, time-consuming to change, difficult to validate, and creates unplanned work that blocks progress. Unless they are managed, technical debt can accumulate and hurt the overall quality of the software and the productivity of the development team in the long term

SonarQube an open source platform for continuous inspection of code quality to perform automatic reviews with static analysis of code to:

- > Detect Bugs
- > Code Smells
- > Security Vulnerabilities
- > Centralize Quality
- > What's covered in this lab Reference:
<https://azuredevopslabs.com/labs/vstsextend/sonarqube/>

NEW QUESTION 5

- (Exam Topic 4)

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

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

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

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

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

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

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

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

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

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

<https://octopus.com/docs/deployment-examples/package-deployments>

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

NEW QUESTION 6

- (Exam 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

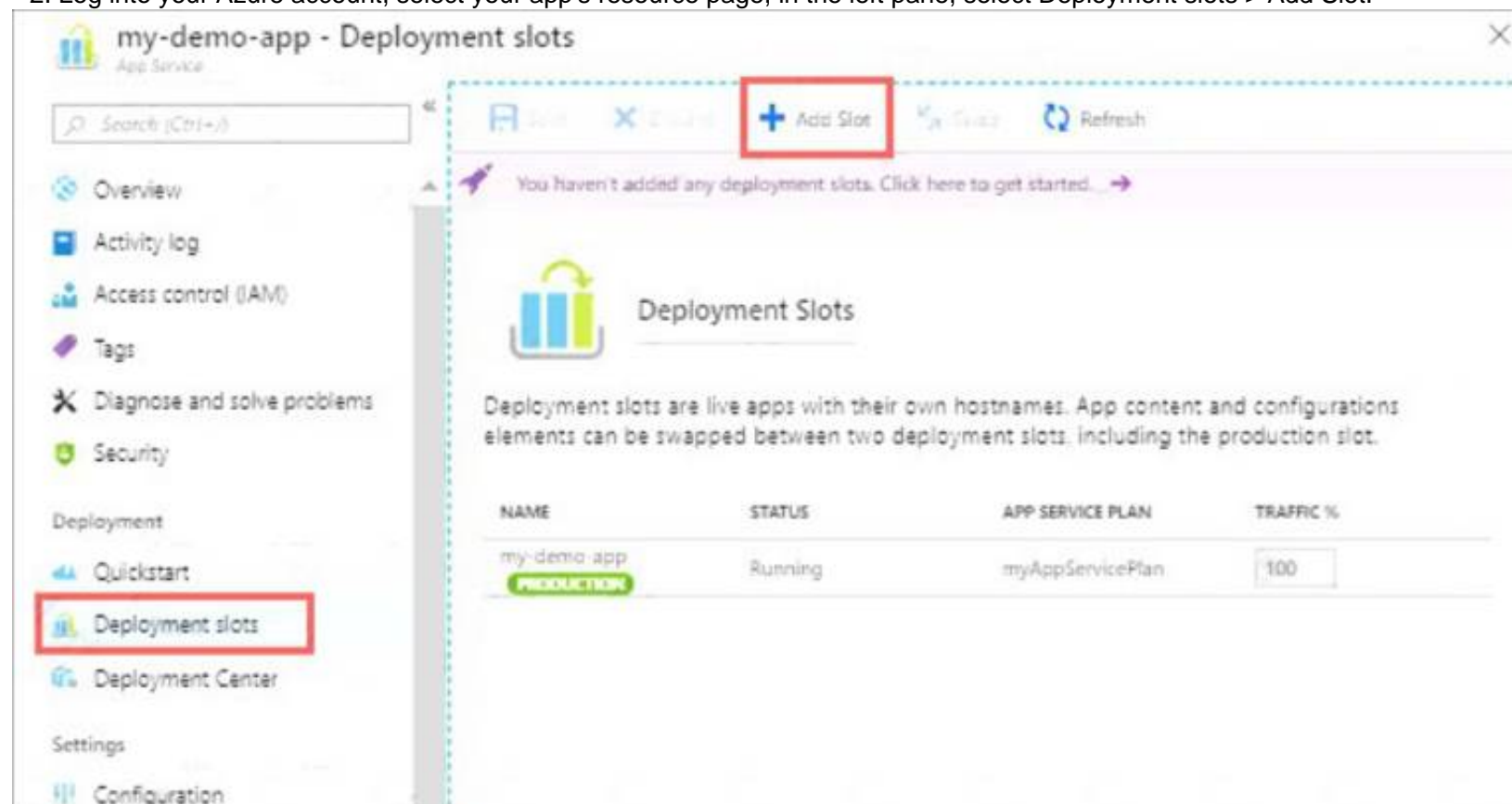
Answer: A

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.

Add a slot

Name

Clone settings from:

Add Close

* 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.

my-demo-app - Deployment slots

Search (Ctrl+J)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Security
Deployment
Quickstart
Deployment slots
Deployment Center
Settings
Configuration

Deployment Slots

Deployment slots are live apps with their own hostnames. App content and configurations elements can be swapped between two deployment slots, including the production slot.

NAME	STATUS	APP SERVICE PLAN	TRAFFIC %
my-demo-app PRODUCTION	Running	myAppServicePlan	100
my-demo-app-staging	Running	myAppServicePlan	0

* 6. Change TRAFFIC % to 10 References:

<https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots>

NEW QUESTION 7

- (Exam 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-d6fa>

NEW QUESTION 8

- (Exam Topic 4)
You have an Azure subscription that uses Azure Monitor and contains a Log Analytics workspace. You have an encryption key.
You need to configure Azure Monitor to use the key to encrypt log data

Actions

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

Create an Azure key vault and store the key.

Configure the key vault properties for the cluster.

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

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

Link the Log Analytics workspace to the cluster.

Answer Area

1

2

3

4

5

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

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

Create an Azure key vault and store the key.

Configure the key vault properties for the cluster.

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

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

Link the Log Analytics workspace to the cluster.

Answer Area

1 Create an Azure key vault and store the key.

2 Configure the key vault properties for the cluster.

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

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

5 Link the Log Analytics workspace to the cluster.

NEW QUESTION 9

- (Exam 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 haw a pokey stating that approvals must occur within eight hours.
You discover that deployments only if the approvals take longer than two hours.
You need to ensure that the deployments only fail if the approvals take longer than hours.
Solution From Post -deployment conditions, you modify the Timeout setting for post-deployment approvals. Does this meet the goal?

- A. Yes
- B. NO

Answer: B

NEW QUESTION 10

- (Exam 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 10

- (Exam Topic 4)
You have an Azure DevOps pipeline that is used to deploy a Node.js app. You need to ensure that the dependencies are cached between builds. How should you configure the deployment YAML? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE Each correct selection is worth one point.

Values

always()

build.sh

eq(variables.CACHE_RESTORED, 'true')

integrationtest.sh

ne(variables.CACHE_RESTORED, 'true')

npm install

Answer Area

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

- script:

Value

condition:

Value

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Values

always()
build.sh
eq(variables.CACHE_RESTORED, 'true')
integrationtest.sh
ne(variables.CACHE_RESTORED, 'true')
npm install

Answer Area

inputs:

key: 'npm | "\$(Agent.OS)" | package-lock.json'

restoreKeys: |

npm | "\$(Agent.OS)"

path: \$(npm_config_cache)

cacheHitVar: CACHE_RESTORED

- script:

npm install

condition:

ne(variables.CACHE_RESTORED, 'true')

NEW QUESTION 11

- (Exam Topic 4)

Your company uses Azure DevOps.

Only users who have accounts in Azure Active Directory can access the Azure DevOps environment. You need to ensure that only devices that are connected to the on-premises network can access the Azure DevOps environment.

What should you do?

- A. Assign the Stakeholder access level to all users.
- B. In Azure Active Directory, configure risky sign-ins.
- C. In Azure DevOps, configure Security in Project Settings.
- D. In Azure Active Directory, configure conditional access.

Answer: D

Explanation:

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

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

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

NEW QUESTION 15

- (Exam Topic 4)

You have an Azure DevOps organization that contains a project named Project1. You need to create a published wiki in Project1.

What should you do first?

- A. Modify the Storage settings of Project1.
- B. In Project1, create an Azure DevOps pipeline.
- C. In Project1, create an Azure DevOps repository.
- D. Modify the Team configuration settings of Project1.

Answer: C

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/devops/project/wiki/publish-repo-to-wiki?view=azure-devops&tabs=bro>

NEW QUESTION 16

- (Exam 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 20

- (Exam Topic 4)

Your company develops a client banking application that processes a large volume of data.

Code quality is an ongoing issue for the company. Recently, the code quality has deteriorated because of an increase in time pressure on the development team.

You need to implement static code analysis.

During which phase should you use static code analysis?

- A. build
- B. production release
- C. staging
- D. integration testing

Answer: A

Explanation:

The Secure Development Lifecycle (SDL) Guidelines recommend that teams perform static analysis during the implementation phase of their development cycle.

Note: The company should focus in particular on the implementation of DevOps tests to assess the quality of the software from the planning stage to the implementation phase of the project.

References: <https://secdevtools.azurewebsites.net/>

NEW QUESTION 22

- (Exam 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:

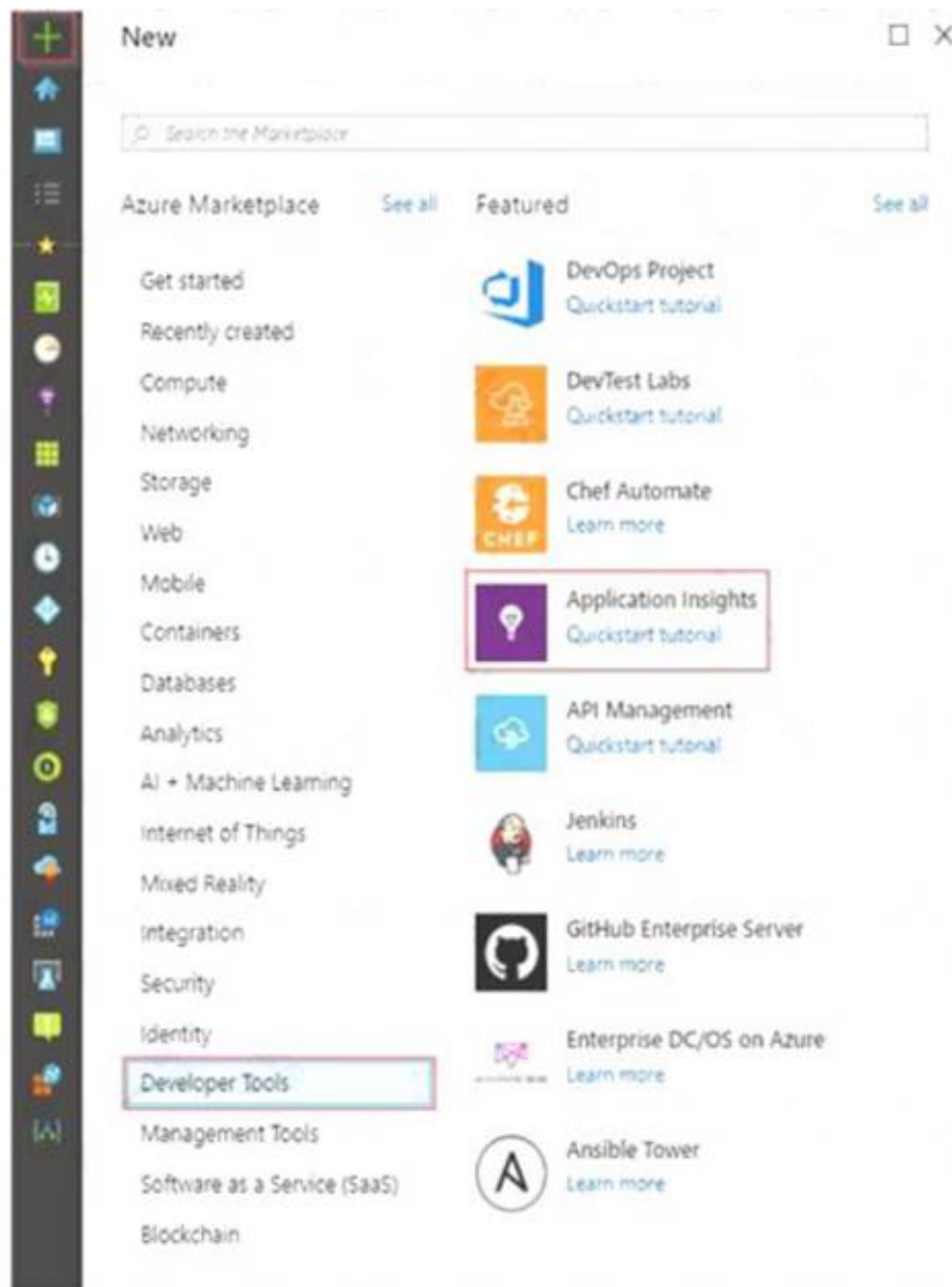
Step 1: Create an instance of Azure Application Insights

* 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

Graphical user interface, application Description automatically generated



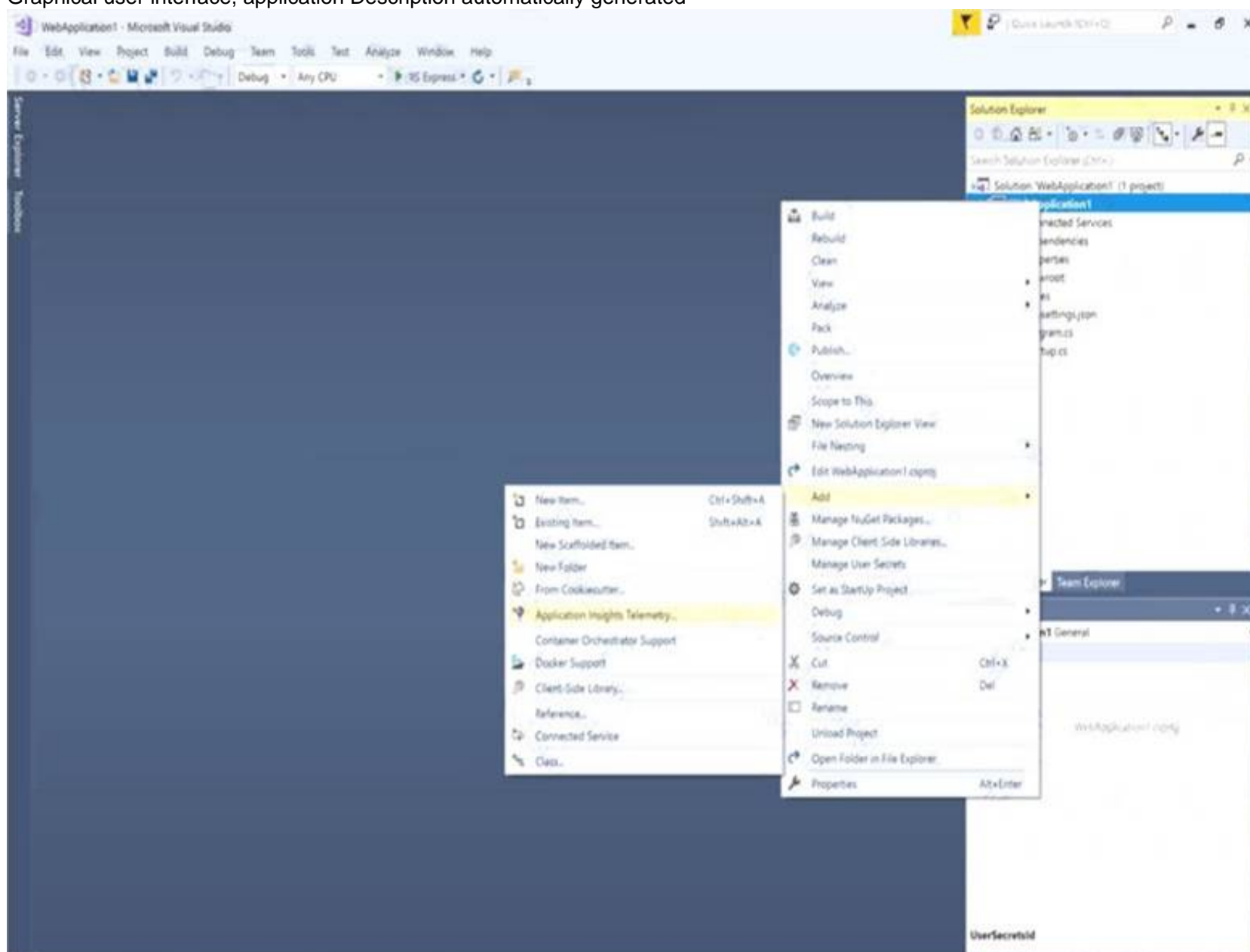
Step 2: Configure App Insights SDK

* 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.

Graphical user interface, application Description automatically generated



Reference:

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

NEW QUESTION 24

- (Exam 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 Integration for the project.

Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Instead implement Continuous Assurance for the project. Reference:

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

NEW QUESTION 29

- (Exam Topic 4)

You have a pipeline named Pipeline1 in Azure Pipelines.

You need to create a service connection to enable Pipeline1 to download a public container image. Which type of service connection should you create?

A. a Docker host

B. Azure Service Fabric

C. Azure Kubernetes Service (AKS)

D. a Docker registry

Answer: D

NEW QUESTION 30

- (Exam Topic 4)

Your company is building a new web application.

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

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

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

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

NOTE: Each correct selection is worth one point.

Developers:

Pilot users:

A. Mastered

B. Not Mastered

Answer: A

Explanation:

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 33

- (Exam Topic 4)

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

Name	Type
Feed1	Azure Artifacts feed
Project1	Project in Azure DevOps

Project1 produces npm packages that are published to Feed 1. Feed1 is consumed by multiple projects. You need to ensure that only tested packages are available for consumption. The solution must minimize development effort. What should you do?

- A. Create a feed view named @default
- B. After the npm packages test successfully, configure a release pipeline that promotes a package to the @default view.
- C. Create a feed view named release and set @release as the default view
- D. After the npm packages test successfully, configure a release pipeline that promotes a package to the @release View.
- E. Create a feed view named @release and set @release as the default view
- F. After the npm packages test successfully, configure a release pipeline that tags the packages as release.
- G. Create a feed view named @default
- H. After the npm packages test successfully
- I. configure a release pipeline that tags the packages as release.

Answer: C

NEW QUESTION 36

- (Exam 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 38

- (Exam Topic 4)

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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 an Octopus Deploy server. You deploy a polled Tentacle agent to an on-premises server. You add an Octopus 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).

Reference:

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

NEW QUESTION 39

- (Exam Topic 4)

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

You have an Azure DevOps organization named Contoso that contains a project name Project1. You subscribe to Project1 in Microsoft Teams.

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

- A. From Microsoft Teams, run @azure pipelines subscribe <https://dev.azure.com/Contoso/Project1>.
- B. From Azure Pipelines, add a Publish Build Artifacts task to Project1.
- C. From Microsoft Teams, run @azure pipelines subscriptions.
- D. From Azure Pipelines, enable continuous integration for Project1.

Answer: A

Explanation:

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

@azure pipelines subscribe [project url]

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

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

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

NEW QUESTION 40

- (Exam Topic 4)

You are automating the testing process for your company. You need to automate UI testing of a web application. Which framework should you use?

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

Answer: B

Explanation:

Performing user interface (UI) testing as part of the release pipeline is a great way of detecting unexpected changes, and need not be difficult. Selenium can be used to test your website during a continuous deployment release and test automation.

References:

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

NEW QUESTION 44

- (Exam Topic 4)

You have a GitHub Enterprise account.

You need to enable push protection for secret scanning of the account repositories. What should you do first?

- A. Purchase Premium Plus support.
- B. Enforce multi-factor authentication (MFA).
- C. Purchase a GitHub Advanced Security license.
- D. Create an access policy for secrets.

Answer: C

NEW QUESTION 47

- (Exam Topic 4)

You have an Azure subscription that contains resources in several resource groups.

You need to design a monitoring strategy that will provide a consolidated view. The solution must support the following requirements:

- Support role-based access control (RBAC) by using Azure Active Directory (Azure AD) identities.
- Include visuals from Azure Monitor that are generated by using the Kusto query language.
- Support documentation written in markdown.
- Use the latest data available for each visual.

What should you use to create the consolidated view?

- A. Azure Data Explorer
- B. Azure dashboards
- C. Azure Monitor
- D. Microsoft Power BI

Answer: A

Explanation:

There are several tools available for running queries in Azure Data Explorer, including Kusto.

Kusto uses a role-based access control (RBAC) model, under which authenticated principals are mapped to roles, and get access according to the roles they're assigned.

Note: Azure Data Explorer is a highly scalable and secure analytics service that enables you to do rich exploration of structured and unstructured data for instant insights. Optimized for ad-hoc queries, Azure Data Explorer enables rich data exploration over raw, structured, and semi-structured data delivering fast time to insight. Query with a modern, intuitive query language that offers fast, ad-hoc, and advanced query capabilities over high-rate data volumes and varieties

Reference:

<https://docs.microsoft.com/en-us/azure/data-explorer/tools-integrations-overview>

NEW QUESTION 52

- (Exam Topic 4)

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

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

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

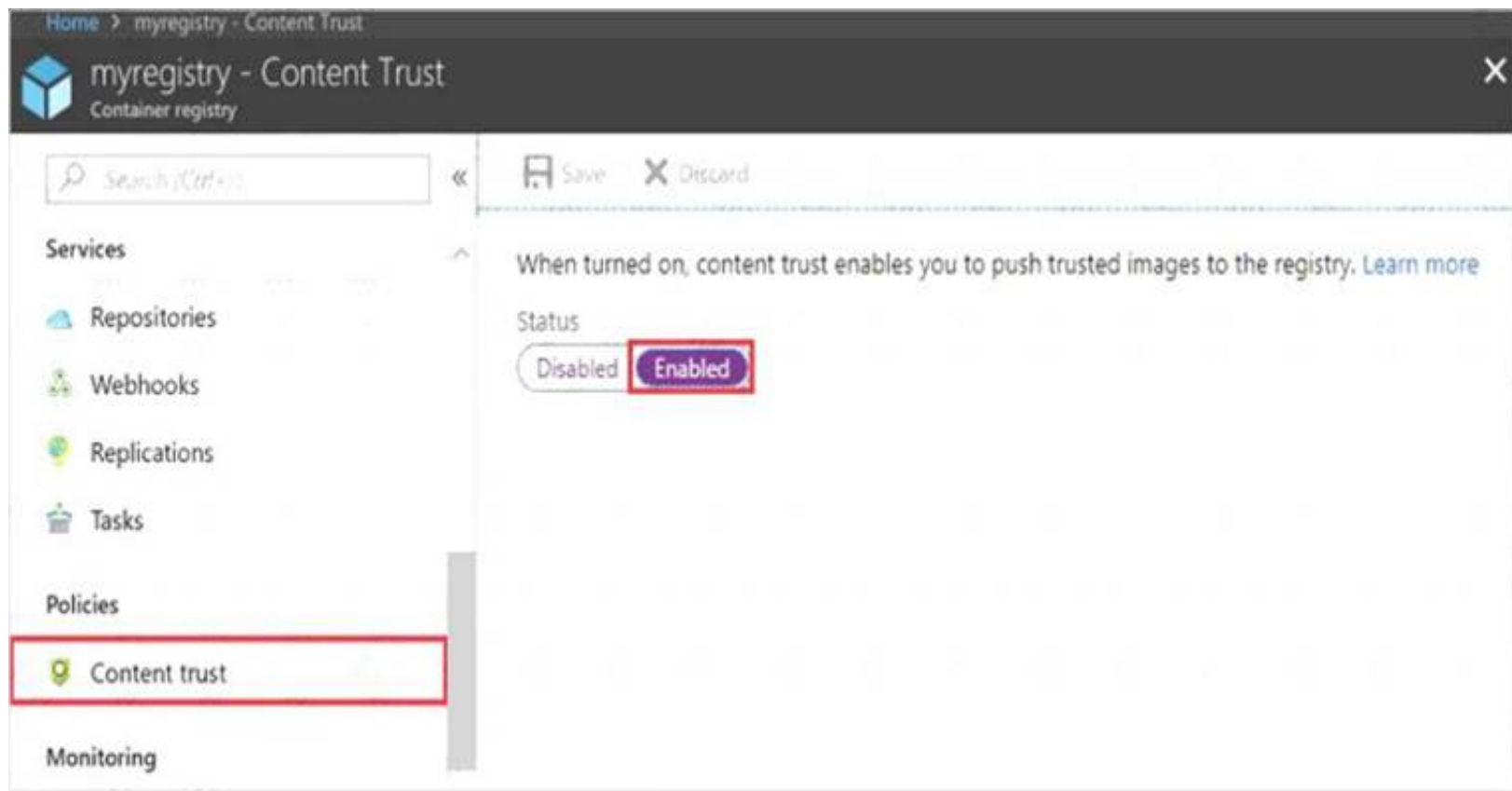
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

* 1. Open Microsoft Azure Portal, and select the Azure Container Registry instance named az4009940427acr1.

* 2. Under Policies, select Content Trust > Enabled > Save.



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

NEW QUESTION 57

- (Exam Topic 4)

You have a project in Azure DevOps.

You create the following YAML template named Template1.yml. steps:

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

You create the following pipeline named File1.yml. parameters:

usersteps:

- task: MyTask@1
- script: echo Done

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

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

Answer: C

Explanation:

Azure Pipelines offers two kinds of templates: includes and extends. Included templates behave like #include in C++; it's as if you paste the template's code right into the outer file, which references it. To continue the C++ metaphor, extends templates are more like inheritance: the template provides the outer structure of the pipeline and a set of places where the template consumer can make targeted alterations.

Example: extends:

template: template.yml@templates parameters:

usersteps:

- script: echo This is my first step
- script: echo This is my second step Reference:

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

NEW QUESTION 62

- (Exam 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 64

- (Exam 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:

Text Description automatically generated

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.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/usage-flows> <https://docs.microsoft.com/en-us/azure/azure-monitor/app/usage-impact>

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

NEW QUESTION 66

- (Exam Topic 4)

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

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

What should you use?

- A. Code Style
- B. Microsoft Visual SourceSafe
- C. Black Duck
- D. Jenkins

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. References:

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

NEW QUESTION 67

- (Exam 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 72

- (Exam Topic 4)

You are designing a configuration management solution to support five apps hosted on Azure App Service. Each app is available in the following three environments: development, test, and production.

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

- Supports feature flags
- Tracks configuration changes from the past 30 days
- Stores hierarchically structured configuration values
- Controls access to the configurations by using role-based access control (RBAC) permission
- Stores shared values as key/value pairs that can be used by all the apps

Which Azure service should you recommend as the configuration management solution?

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

Answer: C

Explanation:

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

App Configuration offers the following benefits:

- A fully managed service that can be set up in minutes
- Flexible key representations and mappings
- Tagging with labels
- Point-in-time replay of settings
- Dedicated UI for feature flag management
- Comparison of two sets of configurations on custom-defined dimensions
- Enhanced security through Azure-managed identities
- Encryption of sensitive information at rest and in transit
- Native integration with popular frameworks

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

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

NEW QUESTION 74

- (Exam Topic 4)

You use Azure DevOps to manage the build and deployment of an app named App1. You have a release pipeline that deploys a virtual machine named VM1.

You plan to monitor the release pipeline by using Azure Monitor

You need to create an alert to monitor the performance of VM1. The alert must be triggered when the average CPU usage exceeds 70 percent for five minutes.

The alert must calculate the average once every minute.

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

Answer Area

Aggregation granularity (Period):	<input type="text" value="1 minute"/> <input checked="" type="text" value="5 minutes"/>
Threshold value:	<input checked="" type="text" value="Static"/> <input type="text" value="Dynamic"/>
Operator:	<input type="text" value="Greater than"/> <input checked="" type="text" value="Greater than or equal to"/> <input type="text" value="Less than or equal to"/> <input type="text" value="Less than"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: 5 minutes

The alert must calculate the average once every minute.

Note: We [Microsoft] recommend choosing an Aggregation granularity (Period) that is larger than the Frequency of evaluation, to reduce the likelihood of missing the first evaluation of added time series

Box 2: Static

Box 3: Greater than

Example, say you have an App Service plan for your website. You want to monitor CPU usage on multiple instances running your web site/app. You can do that using a metric alert rule as follows:

- Target resource: myAppServicePlan
- Metric: Percentage CPU
- Condition Type: Static
- Dimensions
- Instance = InstanceName1, InstanceName2
- Time Aggregation: Average

- > Period: Over the last 5 mins
- > Frequency: 1 min
- > Operator: GreaterThan
- > Threshold: 70
- > Like before, this rule monitors if the average CPU usage for the last 5 minutes exceeds 70%.
- > Aggregation granularity

Reference:

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

NEW QUESTION 78

- (Exam Topic 4)

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

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

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

What should you configure?

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

Answer: C

NEW QUESTION 83

- (Exam Topic 4)

Your company has a project in Azure DevOps.

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

You need to recommend a solution for accessing the secrets stored in the key vault during deployments. The solution must use the principle of least privilege.

What should you include in the recommendation? To answer, drag the appropriate configurations to the correct targets. Each configuration may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: RBAC

Management plane access control uses RBAC.

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

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

Box 2: RBAC

References:

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

NEW QUESTION 88

- (Exam Topic 4)

Your company uses cloud-hosted Jenkins for builds.

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

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

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

Answer: ABE

Explanation:

References:

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

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

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

NEW QUESTION 90

- (Exam Topic 4)

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

Name	Type
DF1	Azure Data Factory
SQL1	Azure SQL Database
KV1	Azure Key Vault

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

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

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

NOTE: Each correct selection is worth one point.

Permission type:

Key
Secret
Certificate

Access method:

Access policy
Service endpoint policy
Role-based access control (RBAC)

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Secret

Store credential in Azure Key Vault by reference secret stored in key vault. To reference a credential stored in Azure Key Vault, you need to:

- > Retrieve data factory managed identity
- > Grant the managed identity access to your Azure Key Vault. In your key vault -> Access policies -> Add Access Policy, search this managed identity to grant Get permission in Secret permissions dropdown. It allows this designated factory to access secret in key vault.
- > Create a linked service pointing to your Azure Key Vault.
- > Create data store linked service, inside which reference the corresponding secret stored in key vault.

Box 2: Access policy Reference:

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

NEW QUESTION 91

- (Exam Topic 4)

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

- > Ten virtual machines hosted in Azure
- > Ten virtual machines hosted in an on-premises data center environment All the virtual machines have the Azure Pipelines agent.

You need to implement a release strategy for deploying the application to the endpoints.

What should you recommend using to deploy the application to the endpoints? To answer, drag the appropriate components to the correct endpoints. Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: A deployment group

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

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

Box 2: A deployment group

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

NEW QUESTION 95

- (Exam Topic 4)

You are deploying a server application that will run on a Server Core installation of Windows Server 2019. You create an Azure key vault and a secret.

You need to use the key vault to secure API secrets for third-party integrations.

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

D18912E1457D5D1DDCBD40AB3BF70D5D

- A. Configure RBAC for the key vault.
- B. Modify the application to access the key vault.
- C. Configure a Key Vault access policy.
- D. Deploy an Azure Desired State Configuration (DSC) extension.
- E. Deploy a virtual machine that uses a system-assigned managed identity.

Answer: BCE

Explanation:

BE: An app deployed to Azure can take advantage of Managed identities for Azure resources, which allows the app to authenticate with Azure Key Vault using Azure AD authentication without credentials (Application ID and Password/Client Secret) stored in the app.

- > Select Add Access Policy.
- > Open Secret permissions and provide the app with Get and List permissions.
- > Select Select principal and select the registered app by name. Select the Select button.
- > Select OK.
- > Select Save.
- > Deploy the app. References:

<https://docs.microsoft.com/en-us/aspnet/core/security/key-vault-configuration> <https://docs.microsoft.com/en-us/azure/key-vault/general/tutorial-net-virtual-machine>

NEW QUESTION 96

- (Exam Topic 4)

You have a project in Azure DevOps named Project1 that has a release pipeline in Azure Pipeline named ReleaseP1.

you need to ensure that when a new release is generated for ReleaseP1, a new release note document is created. The release notes must contain new features and bug fixes.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the Most 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 correct orders you select



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 98

- (Exam Topic 4)

You manage build pipelines and deployment pipelines by using Azure DevOps.

Your company has a team of 500 developers. New members are added continually to the team. You need to automate the management of users and licenses whenever possible.

Which task must you perform manually?

- A. modifying group memberships
- B. procuring licenses
- C. adding users
- D. assigning entitlements

Answer: B

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/migrate-to-group-based-resource-management> <https://docs.microsoft.com/en-us/rest/api/azure/devops/memberentitlementmanagement/?view=azure-devops-res>

NEW QUESTION 100

- (Exam Topic 4)

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

The company needs to generate a ticket in Service Now when the application fails to authenticate. Which Azure Log Analytics solution should you use?

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

Answer: B

Explanation:

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

ITSMC supports connections with the following ITSM tools:

- ServiceNow
- System Center Service Manager
- Provance
- Cherwell

With ITSMC, you can

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

➤ Optionally, you can sync your incident and change request data from your ITSM tool to an Azure Log Analytics workspace.
References: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/itsmc-overview>

NEW QUESTION 103

- (Exam 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 integrate a cloud-hosted Jenkins server and a new Azure DevOps deployment

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

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

- A. Yes
- B. NO

Answer: A

Explanation:

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

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

NEW QUESTION 106

- (Exam 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 108

- (Exam 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 this 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 112

- (Exam Topic 4)

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

You need to ensure that runbooks can run the Azure PowerShell cmdlets for Azure Active Directory. To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

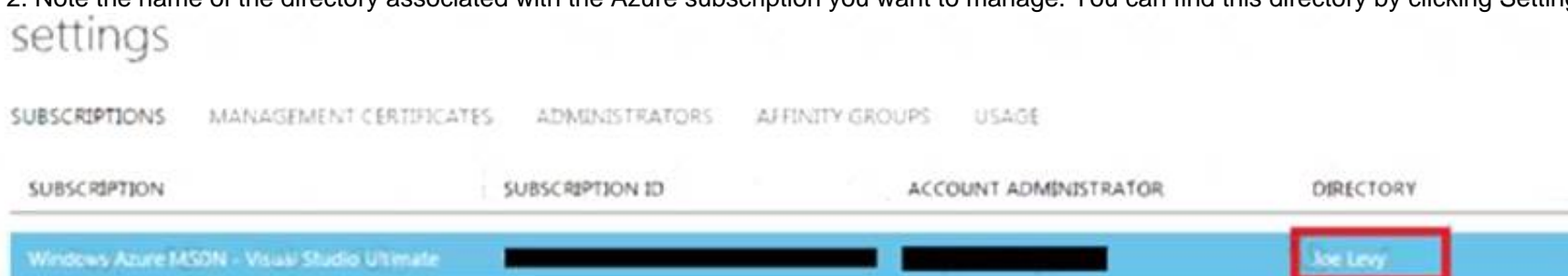
Step 1: Find the Azure Active Directory associated with the Azure subscription to manage:

* 1. Log in to the Azure portal as the service administrator for the Azure subscription you want to manage using

Azure Automation. You can find this user by logging in to the Azure portal as any user with access to this Azure subscription, then clicking Settings, then Administrators.



* 2. Note the name of the directory associated with the Azure subscription you want to manage. You can find this directory by clicking Settings, then Subscriptions.



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

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

* 1. In the Azure portal click on Active Directory service.



* 2. Click the directory name that is associated with this Azure subscription.

* 3. Click on the Users tab and then click the Add User button.

* 4. For type of user, select "New user in your organization." Enter a username for the user to create.

* 5. Fill out the user's profile. For role, pick "User." Don't enable multi-factor authentication. Multi-factor accounts cannot be used with Azure Automation.

* 6. Click Create.

* 7. Jot down the full username (including part after @ symbol) and temporary password. Step 3: Allow this Azure Active Directory user to manage this Azure subscription.

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

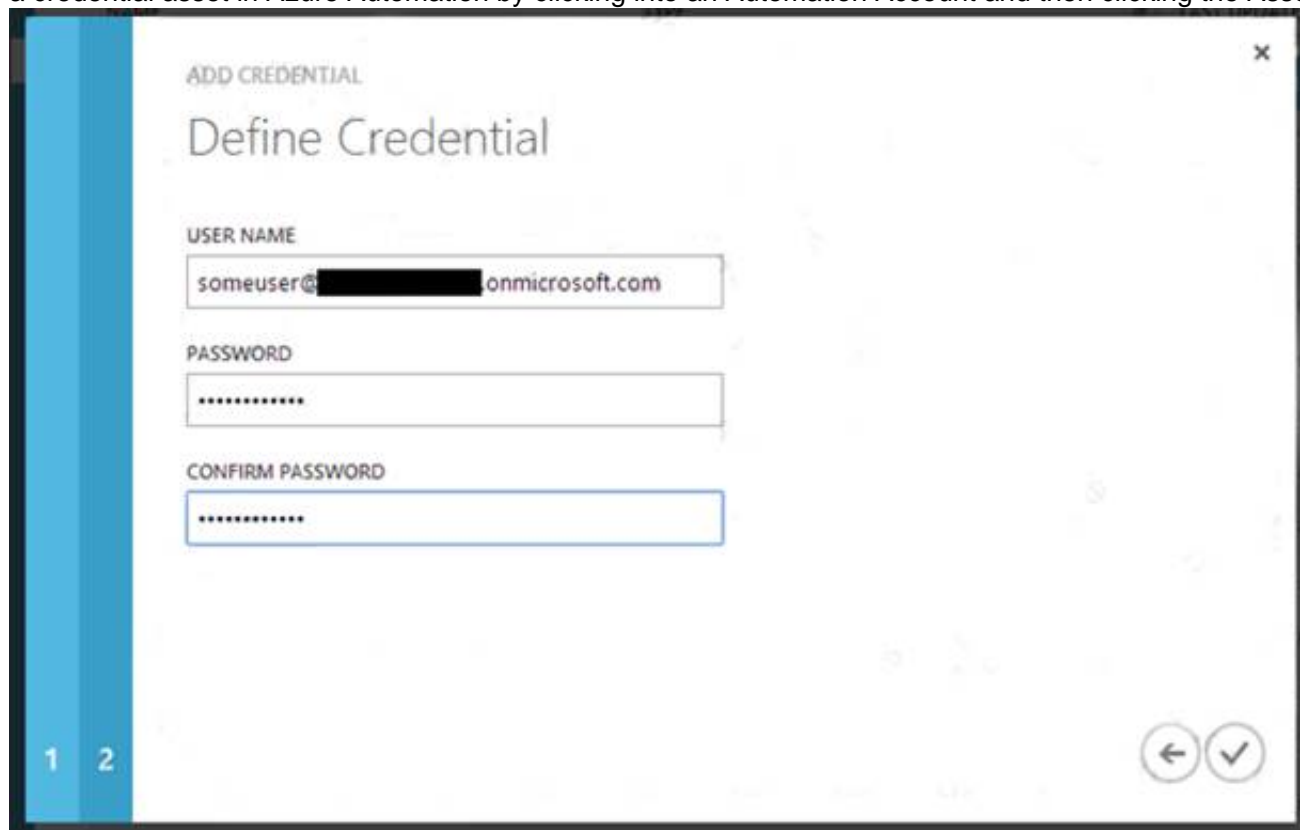


* 2. Click Administrators

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

Step 4: Configure Azure Automation to use this Azure Active Directory user to manage this Azure subscription

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



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

References:

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

NEW QUESTION 114

- (Exam 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.

Answer Area

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

▼

livenessProbe:
readinessProbe:
ShutdownProbe:
startupProbe:

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

▼

initialDelaySeconds: 15
periodSeconds: 15
timeoutSeconds: 15

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: readinessProbe:

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.

Reference:

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

NEW QUESTION 118

- (Exam Topic 4)

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

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

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

Object to create:

A build task
A deployment task
An artifacts repository

Service to use:

WhiteSource Bolt
Bamboo
CMake
Chef

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Box 1: A Build task Trigger a build

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

- Go to Builds section under Pipelines tab, select the build definition WhiteSourceBolt and click on Queue to trigger a build.
- To view the build in progress status, click on ellipsis and select View build results.

Box 2: WhiteSource Bolt

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

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

NEW QUESTION 123

- (Exam Topic 4)

You are creating a build pipeline in Azure Pipelines.

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

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

What should you do?

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

Answer: B

NEW QUESTION 128

- (Exam Topic 4)

You need to configure access to Azure DevOps Agent pools to meet the forwarding requirements:

- Use a project agent pool when authoring build release pipelines.
- View the agent pool and agents of the organization.
- Use the principle of least privilege.

Which role memberships are required for the Azure 0e%Oos organization and the project? To answer, drag the appropriate role membership to the correct targets.

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

NOTE: Each correct selection is worth one point.

Roles	Answer Area
Administrator	
Reader	Organization: <input type="text"/>
Service Account	Project: <input type="text"/>
User	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

project level role: UserOrganization level role: Reader


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

NEW QUESTION 131

- (Exam Topic 4)

You create an alert rule in Azure Monitor as shown in the following exhibit.

Create rule
Rules management




• RESOURCE

ASP-9bb7

Select

HIERARCHY

Contoso > CoreApp1




• CONDITION

Whenever the Activity Log has an event with Category = 'Administrative', Signal name = 'All Administrative operations', Status = 'failed'

Add

ⓘ Azure Alerts are currently limited to either 2 metric, 1 log, or 1 activity log signal per alert rule. To alert on more signals, please create additional alert rules.



ACTIONS GROUPS (optional)

Action group name

Application Insights Smart Detection

Add

Contain actions

2 Email Azure Resource Manager Role(s)

Create

ⓘ Action rules (preview) allows you to define actions at scale as well as suppress actions. Learn more about this functionality by clicking on this banner. ⓘ

Which action will trigger an alert?

- A. a failed attempt to delete the ASP-9bb7 resource
- B. a change to a role assignment for the ASP-9bb7 resource
- C. a successful attempt to delete the ASP-9bb7 resource
- D. a failed attempt to scale up the ASP-9bb7 resource

Answer: A

NEW QUESTION 135

- (Exam Topic 4)

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

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

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

What should you include in the recommendation?

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

Answer: C

Explanation:

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

Reference:

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

NEW QUESTION 138

- (Exam Topic 4)

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

You need to minimize the amount of disk space used by older packages in Azure Artifacts. What should you modify?

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

Answer: B

Explanation:

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

NEW QUESTION 139

- (Exam Topic 4)

You use GitHub for source control of .NET applications.

You need to deploy a documentation solution that meets the following requirements:

- Documents will be written in Markdown as developers make code changes
- Changes to the documents will trigger the recompilation of a static website.
- Users will access the documents from the static websites
- Documents will be stored in a GitHub repository

Which two tools can you use to compile the website? Each correct answer presents a complete solution.

- A. Jekyll
- B. Medium
- C. caret
- D. WordPress
- E. DocFX

Answer: AE

Explanation:

A. Jekyll is a static site generator that can be used to generate a static website from Markdown files stored in a GitHub repository. Jekyll supports the use of Markdown for writing documentation, and it can automatically recompile the website whenever changes are made to the documentation.

E. DocFX is another tool that can be used to compile a static website from Markdown files stored in a GitHub repository. It is an open-source tool that can be used to generate API documentation, reference documentation, and other types of documentation from source code and other files. DocFX supports the use of Markdown for writing documentation and it can automatically recompile the website whenever changes are made to the documentation.

NEW QUESTION 140

- (Exam Topic 4)

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

VMSS1 hosts a web application named

WebApp1. WebApp1 uses stateful sessions.

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

You plan to make a minor change to a UI element of WebApp1 and to gather user feedback about the change. You need to implement limited user testing for the new version of WebApp1 on VMSS1.

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

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

Answer: BCD

NEW QUESTION 142

- (Exam 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 146

- (Exam Topic 4)

You have a private GitHub repository.

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

What should you do first?

- A. Create a GitHub action in GitHub.
- B. Add the Azure Pipelines app to the GitHub repository.
- C. Configure multi-factor authentication (MFA) for your GitHub account.
- D. Add the Azure Boards app to the repository.

Answer: D

Explanation:

To connect Azure Boards to GitHub.com, connect and configure from Azure Boards. Or, alternatively, install and configure the Azure Boards app from GitHub.

Both methods have been streamlined and support authenticating and operating via the app rather than an individual.

Note (see step 4 below): Add a GitHub connection:





- Sign into Azure Boards.
- Choose (1) Project Settings, choose (2) GitHub connections and then (3) Connect your GitHub account.
- If this is your first time connecting to GitHub from Azure Boards, you will be asked to sign in using your GitHub credentials. Choose an account for which you are an administrator for the repositories you want to connect to.
- The Add GitHub Repositories dialog automatically displays and selects all GitHub.com repositories for which you are an administrator. Unselect any repositories that you don't want to participate in the integration.

Add GitHub repositories

Add the GitHub repositories you want to use with your Azure Boards.

Filter by keywords

Viewing 4, 4 selected

- ☒  JamalHart/fabrikam- apps-2
- ☒  JamalHart/fabrikam- demo
- ☒  JamalHart/fabrikam- open-source
- ☒  JamalHart/fabrikam- suite

Save

Reference:

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

NEW QUESTION 148

- (Exam Topic 4)

You have an application that consists of several Azure App Service web apps and Azure functions. You need to access the security of the web apps and the functions.

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

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

Answer: D

Explanation:

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

Recommendations

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

NEW QUESTION 152

- (Exam Topic 4)

You have an Azure Resource Manager template that deploys a multi-tier application.

You need to prevent the user who performs the deployment from viewing the account credentials and connection strings used by the application.

What should you use?

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

Answer: D

Explanation:

When you need to pass a secure value (like a password) as a parameter during deployment, you can retrieve the value from an Azure Key Vault. You retrieve the value by referencing the key vault and secret in your parameter file. The value is never exposed because you only reference its key vault ID. The key vault can exist in a different subscription than the resource group you are deploying to.

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-keyvault-parameter>

NEW QUESTION 154

- (Exam 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 159

- (Exam Topic 4)

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

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

You need to install a service in the AKS namespace for the planned deployment. Which service should you install?

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

Answer: D

Explanation:

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

Reference:

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

NEW QUESTION 163

- (Exam Topic 4)

You are designing a build pipeline in Azure Pipelines.

The pipeline requires a self-hosted agent. The build pipeline will run once daily and will take 30 minutes to complete.

You need to recommend a compute type for the agent. The solution must minimize costs. What should you recommend?

- A. Azure virtual machines
- B. an Azure virtual machine scale set
- C. an Azure Kubernetes Service (AKS) cluster
- D. Azure Container Instances

Answer: D

Explanation:

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

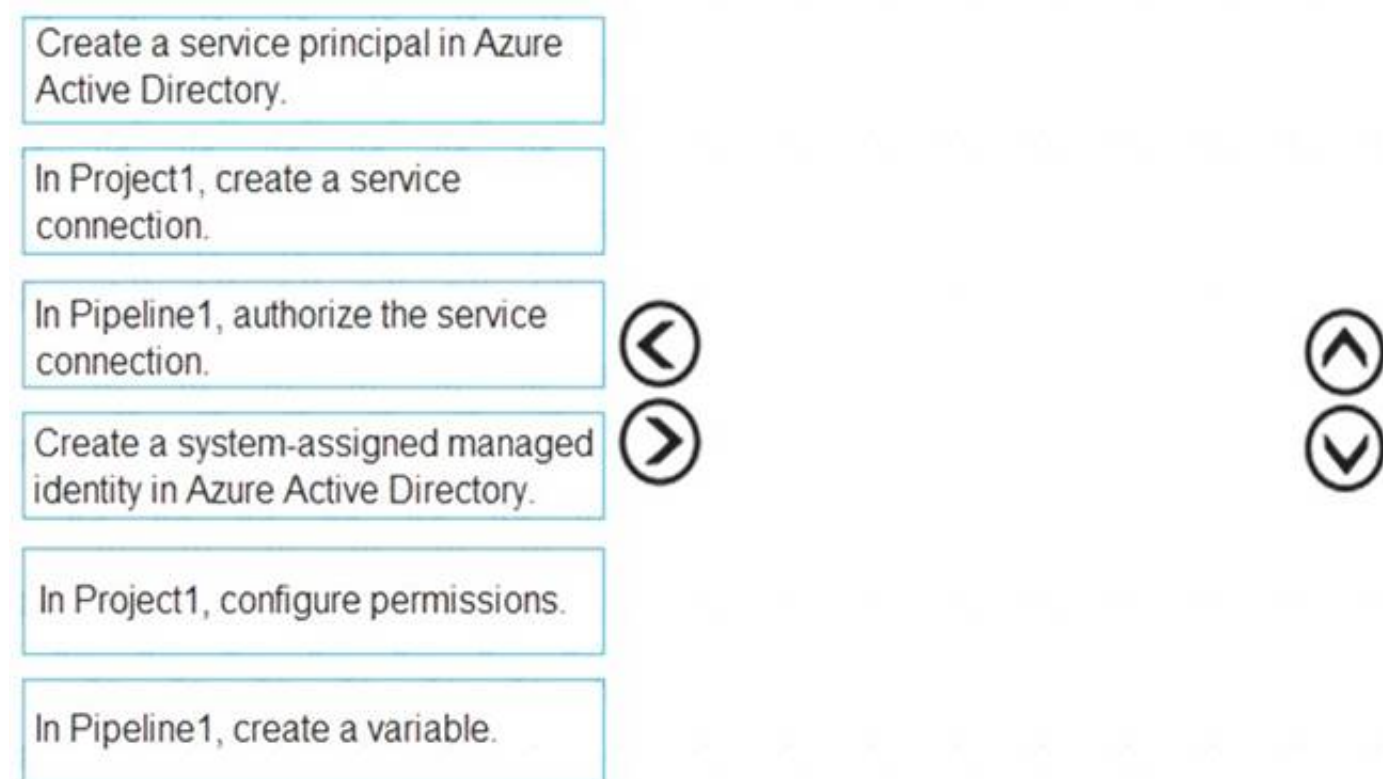
NEW QUESTION 168

- (Exam Topic 4)

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

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

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

Reference:

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

NEW QUESTION 171

- (Exam Topic 4)

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

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

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

Answer: CD

NEW QUESTION 176

- (Exam Topic 4)

You are configuring Azure Pipelines for three projects in Azure DevOps as shown in the following table.

Project name	Project Details
Project1	The project team provides preconfigured YAML files that it wants to use to manage future pipeline configuration changes.
Project2	The sensitivity of the project requires that the source code be hosted on the managed Windows server on your company's network.
Project3	The project team requires a centralized version control system to ensure that developers work with the most recent version.

Which version control system should you recommend for each project? To answer, drag the appropriate version control systems to the correct projects. Each version control system may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Version Control Systems

Assembla Subversion

Bitbucket Cloud

Git in Azure Repos

GitHub Enterprise

Answer Area

Project1:

Project2:

Project3:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Project1:Git in Azure Repos Project2: Github Enterprise

GitHub Enterprise is the on-premises version of GitHub.com. GitHub Enterprise includes the same great set of features as GitHub.com but packaged for running on your organization's local network. All repository data is stored on machines that you control, and access is integrated with your organization's authentication system (LDAP, SAML, or CAS).

Project3: Bitbucket cloud

One downside, however, is that Bitubucket does not include support for SVN but this can be easily amended migrating the SVN repos to Git with tools such as SVN Mirror for Bitbucket .

Note: SVN is a centralized version control system.

NEW QUESTION 180

- (Exam Topic 4)

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

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

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

App1:

▼

canary

rolling

runonce

App2:

▼

canary

rolling

runonce

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

App1: rolling

A rolling deployment replaces instances of the previous version of an application with instances of the new version of the application on a fixed set of virtual machines (rolling set) in each iteration.

App2: canary

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

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

NEW QUESTION 182

- (Exam Topic 4)

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

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

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

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

NOTE: Each correct selection is worth one point.

The screenshot shows the Azure Monitor query editor. On the left, under 'Values', there is a list of items: `bin(timestamp,id)`, `bin(timestamp,1h)`, `project timechart`, `render chart`, and `render timechart`. On the right, under 'Answer Area', there is a Kusto query snippet: `... performanceCounters | where counter == "% Processor Time" | where timestamp >= ago(7d) | summarize avg(value) by cloud_RoleInstance, []`. The goal is to complete the query by dragging the appropriate values from the left list into the query.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 183

- (Exam Topic 4)

You have app named App1. You have a Log Analytics workspace named Workspace1 that contains two tables named Events and Logs. App1 manage events in multiple locations and writes logs to Workspace1.

You need to query Workspace1 for all log entries related to Asia that occurred during the last two days. In which order should you arrange the query statements?

The screenshot shows the Log Analytics query editor. On the left, under 'Statements', there is a list of statements: `| join (Events`, `| where continent == 'Asia'`, `) on RequestID`, `| where Timestamp > ago(2d)`, and `Logs`. On the right, under 'Answer Area', there is a vertical list of boxes numbered 1, 2, and 3, intended for arranging the statements in the correct order.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The screenshot shows the Log Analytics query editor with the statements arranged in the correct order in the 'Answer Area'. The order is: `) on RequestID` (labeled 1), `| where Timestamp > ago(2d)` (labeled 2), and `Logs` (labeled 3). The 'Statements' list on the left remains the same as in the previous screenshot.

NEW QUESTION 184

- (Exam 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>

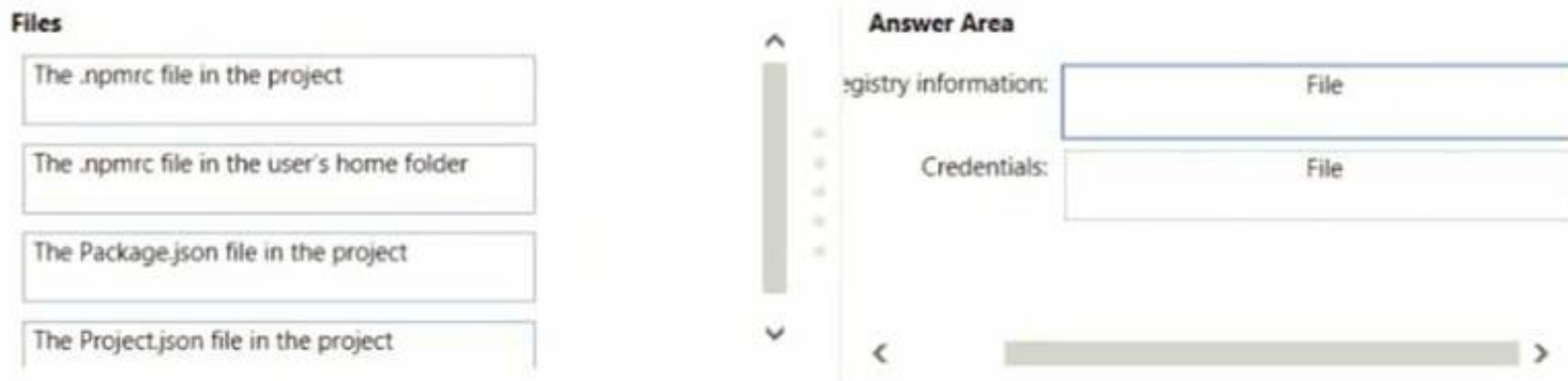
NEW QUESTION 187

- (Exam 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 188

- (Exam 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 192

- (Exam 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

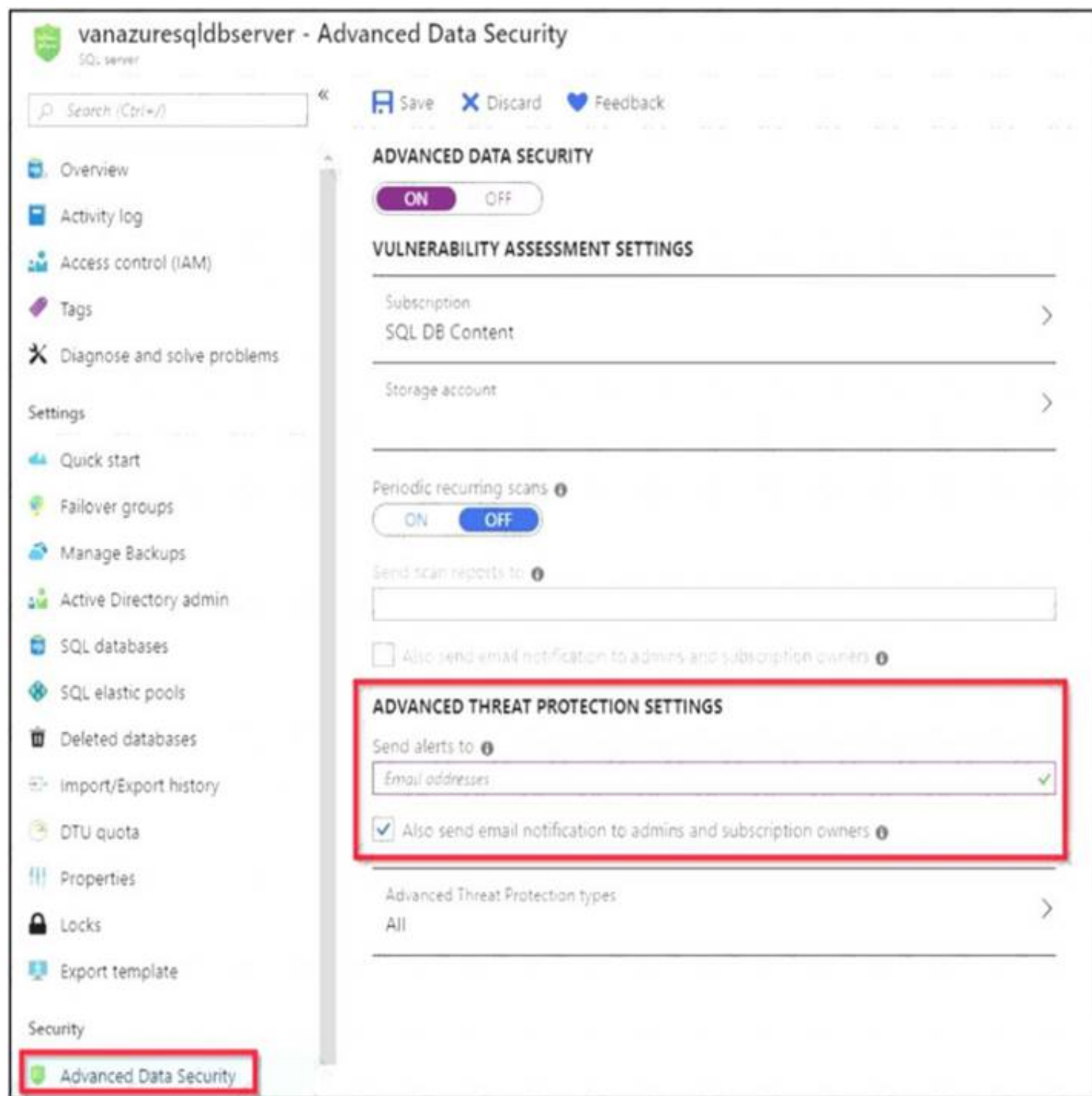
Explanation:

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

Reference:

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

NEW QUESTION 197

- (Exam Topic 4)

Your company has a project in Azure DevOps.

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

What should you use?

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

Answer: A

Explanation:

References:

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

NEW QUESTION 198

- (Exam Topic 4)

You manage the Git repository for a large enterprise application.

During the development of the application, you use a file named Config.json.

You need to prevent Config.json from being committed to the source control whenever changes to the application are committed.

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

Actions	Answer Area
Run the <code>git commit</code> command.	
Run the <code>git reflog expire</code> command.	
Run the <code>git add .gitignore</code> command.	
Add <code>Config.json</code> to the <code>.gitignore</code> file.	
Delete and recreate the repository.	

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Step 1: Delete and recreate the repository. Step 2: Add Config.json to the .gitignore file

Each line in the `.gitignore` excludes a file or set of files that match a pattern. Example:

```
# ignore a single file Config.json
```

Step 3: Run the git add .gitignore command

At the initial commit we want basically move from Untracked to Staged, for staging we have to indicate which file we want to move or specify a pattern, as example:

Reference:

<http://hermit.no/how-to-find-the-best-gitignore-for-visual-studio-and-azure-devops/> <https://geohernandez.net/how-to-add-an-existing-repository-into-azure-devops-repo-with-git/>

NEW QUESTION 202

- (Exam Topic 4)

You 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.

[illegible]

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:

Reference:

<https://dev.to/rajikaimal/azure-devops-ci-cd-yaml-pipeline-4glj>

NEW QUESTION 203

- (Exam Topic 4)

You have an Azure DevOps project that contains a release pipeline and a Git repository. When a new code revision is committed to the repository, a build and release is triggered.

You need to ensure that release information for the pipeline is added automatically to the work items associated to the Git commit.

What should you do?

- A. Modify the Integrations options for the pipeline.
- B. Modify the post-deployment conditions for the last stage of the pipeline.
- C. Add an agentless job to the pipeline.
- D. Modify the service hooks for the project.

Answer: D

Explanation:

Service hooks in Azure DevOps allow you to trigger actions in other tools based on events that occur in your Azure DevOps project. To automatically add release information to work items associated with a Git commit, you would need to configure a service hook that listens for commit events in your Git repository, and then sends the release information to the appropriate work items.

Here's the steps you can follow to set up a service hook for this purpose:

- In your Azure DevOps project, navigate to the project settings by clicking on the gear icon in the top right corner of the page.
- Select "Service Hooks" from the left-hand menu.
- Click on the "New Subscription" button to create a new service hook.
- In the "Event" drop-down menu, select "Code pushed" to trigger the service hook when a new code revision is committed to the repository.
- In the "Actions" section, select the action that you want to take place when the service hook is triggered.

For example, you might use the "Link work items to commits" action to automatically associate work items with the relevant commits.

- Configure the remaining settings as needed, and then click on the "Create" button to create the service hook.

You can find more information on Service hooks in Azure DevOps by following this link <https://docs.microsoft.com/en-us/azure/devops/service-hooks/overview?view=azure-devops>

NEW QUESTION 207

- (Exam Topic 4)

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

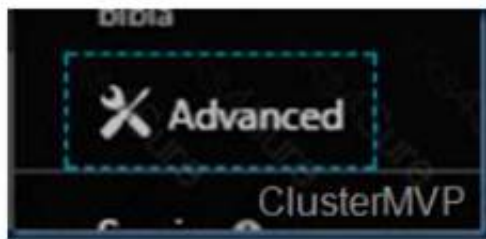
To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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



* 5. Change the following settings:

- > Destination Port range: 8080
- > Protocol. TCP
- > Action: Allow

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

<https://robertsmit.wordpress.com/2017/09/11/step-by-step-azure-network-security-groups-nsg-security-center-az> <https://docs.microsoft.com/en-us/azure/devops/server/architecture/required-ports?view=azure-devops>

NEW QUESTION 210

- (Exam 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 213

- (Exam Topic 4)

You have a multi-tier application. The front end of the application is hosted in Azure App Service. You need to identify the average load times of the application pages. What should you use?

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

Answer: A

Explanation:

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

Application Insights can monitor both Java and ASP.NET web applications and services, WCF services. They can be hosted on-premises, on virtual machines, or as Microsoft Azure websites.

On the client side, Application Insights can take telemetry from web pages and a wide variety of devices including iOS, Android, and Windows Store apps.

Reference:

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

NEW QUESTION 216

- (Exam Topic 4)

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

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

You need to configure the YAML strategy value for each app. The solution must minimize app downtime. Which value should you configure for each app? To answer, select the appropriate options in the answer area.

App1:

canary

rolling

runonce

App2:

canary

rolling

runonce

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

App1 Canary and App2 rolling
App1 Canary would minimize app downtime for the first app, as it would only deploy new code when the canary has confirmed that it is functional - and if there are any issues, it would roll back to the previous version of the code.
App2 rolling would be the second option, as it would allow for frequent deployments of new code, while still giving the developers enough time to fix any issues that may have been introduced during new code deployments.

NEW QUESTION 220

- (Exam 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

Values

https://dev.azure.com/organization/project/_git/repo1

git@ssh.dev.azure.com:v3/organization/project/repo1

repo1/src

src/web

repo1/src/web

web

Answer Area

...

cd repos

scalar clone

Value

cd

Value

git sparse-checkout set

Value

...

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated with medium confidence

NEW QUESTION 223

- (Exam 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 tor 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 225

- (Exam Topic 4)

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

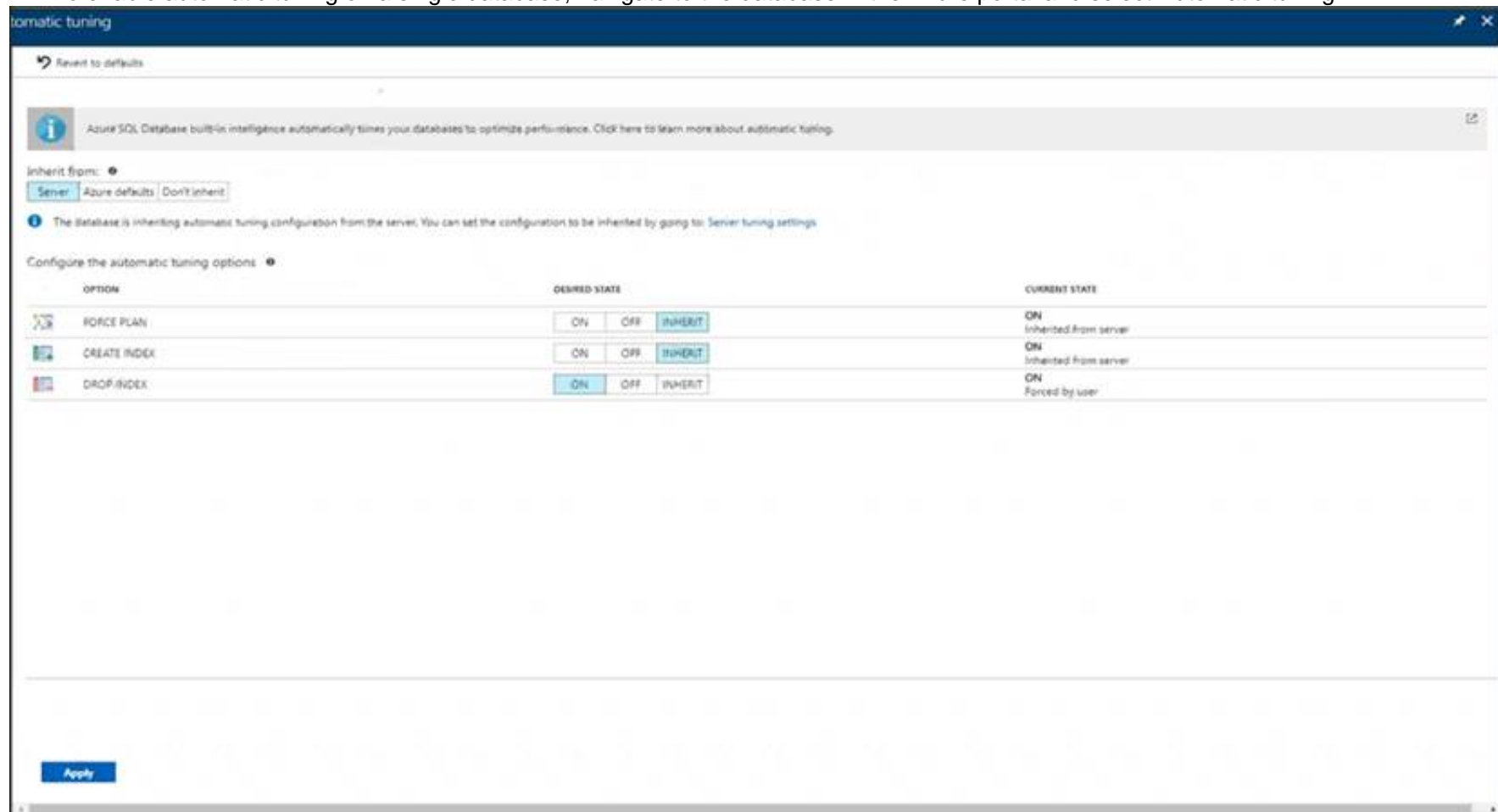
You need to ensure that queries to db1 are tuned by Azure over time. The solution must only apply to db1. To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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



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

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

Reference:

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

NEW QUESTION 228

- (Exam 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 231

- (Exam Topic 4)

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 an Azure self-hosted agent to an on-premises server. You add a Copy and Publish Build Artifacts task to the deployment pipeline. Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

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). The agents must have connectivity to the target on-premises environments, and access to the Internet to connect to Azure Pipelines or Team Foundation Server.

References:

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

NEW QUESTION 234

- (Exam Topic 4)

You need to configure a virtual machine named VM1 to securely access stored secrets in an Azure Key Vault named az400-11566895-kv. To complete this task, sign in to the Microsoft Azure portal.

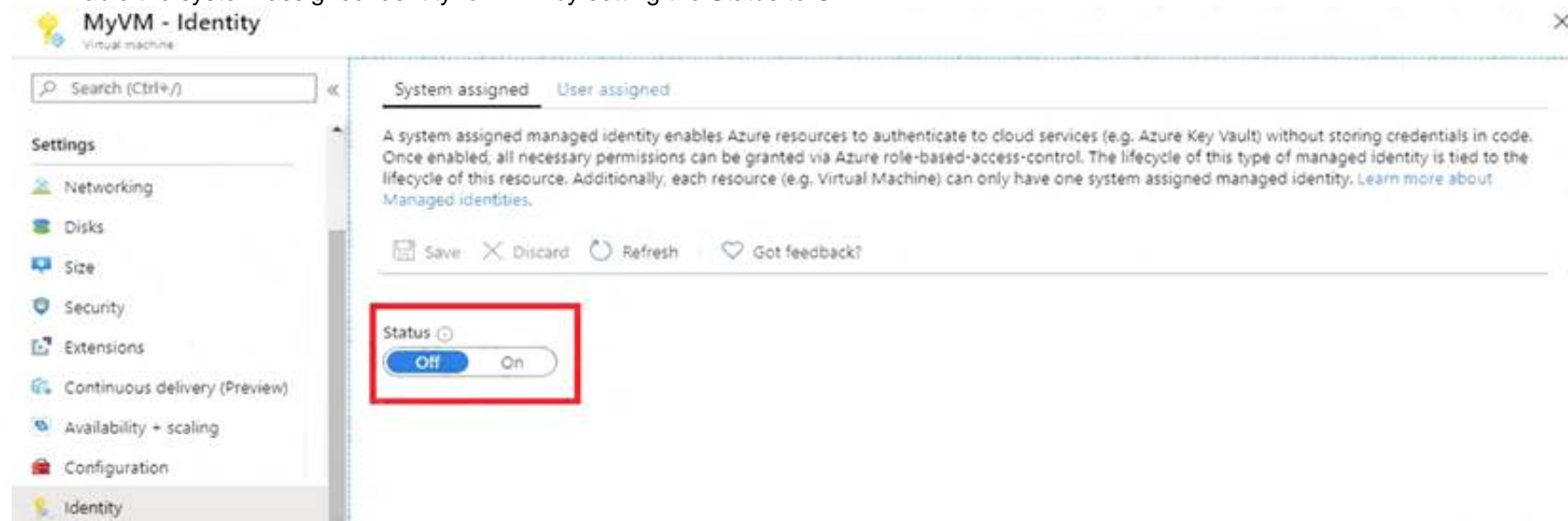
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

- Sign in to Azure portal
- Locate virtual machine VM1.
- Select Identity
- Enable the system-assigned identity for VM1 by setting the Status to On.



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

Reference:

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

NEW QUESTION 239

- (Exam Topic 4)

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

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

Which URIs should you use for the SAML configuration in Azure AD? To answer, drag the appropriate URIs to the correct settings. Each URI may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

URIs	Answer Area
https://github.com/orgs/org1	Identifier (Entity ID): <input type="text"/>
https://github.com/orgs/org1/sso	Reply URL (Assertion Consumer Service URL): <input type="text"/>
https://login.microsoftonline.com/tenant1	Sign on URL: <input type="text"/>
https://github.com/orgs/org1/saml/consume	
https://login.microsoftonline.com/tenant1.com	

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Reference:

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

NEW QUESTION 244

- (Exam 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 247

- (Exam Topic 4)

Your company uses Azure DevOps for Git source control.

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

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

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

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

NOTE: Each correct selection is worth one point.

/azrepos

feedback

signin

subscribe

subscriptions

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

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Box 1: subscribe

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

/azrepos subscribe [project url]

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

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

/azrepos subscribe [repository url]

The repository URL can be to any page within your repository that has your repository name. For example, for Git repositories, use:

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

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

NEW QUESTION 252

- (Exam Topic 4)

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

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

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

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create an agent pool

Azure Pipelines provides a pre-defined agent pool named Azure Pipelines with Microsoft-hosted agents. Step 2: Create a deployment group

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

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

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

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

Reference:

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

NEW QUESTION 256

- (Exam Topic 3)

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

What should you use?

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

Answer: A

Explanation:

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

➤ Migrate all the source code from TFS1 to GitHub.

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

Reference:

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

NEW QUESTION 260

- (Exam 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 262

- (Exam Topic 3)

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

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

Actions Commands Cmdlets Statements

Answer Area

Create an app.

Add a secret.

Create a credential.

Configure the ID and secret for App1.

Create a managed service identity.

⬅

➡

⬆

⬇

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated
Woodgrove Bank plans to implement the following changes to the identity environment:

- Configure App1 to use a service principal.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/develop/howto-create-service-principal-portal>

NEW QUESTION 266

- (Exam Topic 2) You need to implement Project4. What should you do first?

- A. Add the FROM instruction in the Dockerfile file.
- B. Add a Copy and Publish Build Artifacts task to the build pipeline.
- C. Add a Docker task to the build pipeline.
- D. Add the MAINTAINER instruction in the Dockerfile file.

Answer: C

Explanation:

Scenario: Implement Project4 and configure the project to push Docker images to Azure Container Registry.

Project 4	Project4 will provide support for a build pipeline that creates a Docker image and pushes the image to the Azure Container Registry. Project4 will use an existing Dockerfile.
-----------	--

You use Azure Container Registry Tasks commands to quickly build, push, and run a Docker container image natively within Azure, showing how to offload your "inner-loop" development cycle to the cloud. ACR Tasks is a suite of features within Azure Container Registry to help you manage and modify container images across the container lifecycle.

References:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-quickstart-task-cli>

NEW QUESTION 269

- (Exam Topic 2)

You need to recommend a procedure to implement the build agent for Project1.

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

Actions

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

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

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

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

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

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario:

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

Step 1: Sign in to Azure DevOps by using an account that is assigned the Administrator service connection security role.

Note: Under Agent Phase, click Deploy Service Fabric Application. Click Docker Settings and then click Configure Docker settings. In Registry Credentials Source, select Azure Resource Manager Service Connection. Then select your Azure subscription.

Step 2: Create a personal access token..

A personal access token or PAT is required so that a machine can join the pool created with the Agent Pools (read, manage) scope.

Step 3: Install and register the Azure Pipelines agent on an Azure virtual machine.

By running a Azure Pipeline agent in the cluster, we make it possible to test any service, regardless of type. References:

<https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-tutorial-deploy-container-app-with-cicd-vst> <https://mohitgoyal.co/2019/01/10/run-azure-devops-private-agents-in-kubernetes-clusters/>

NEW QUESTION 271

- (Exam Topic 2)

You need to implement the code flow strategy for Project2 in Azure DevOps.

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

Actions

Create a repository

Add a build policy for the fork.

Create a branch.

Add a build policy for the master branch.

Add an application access policy.

Create a fork.

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Create a repository

Add a build policy for the fork.

Create a branch.

Add a build policy for the master branch.

Add an application access policy.

Create a fork.

Answer Area

Create a repository

Add a build policy for the master branch.

Create a branch.

NEW QUESTION 276

- (Exam Topic 1)

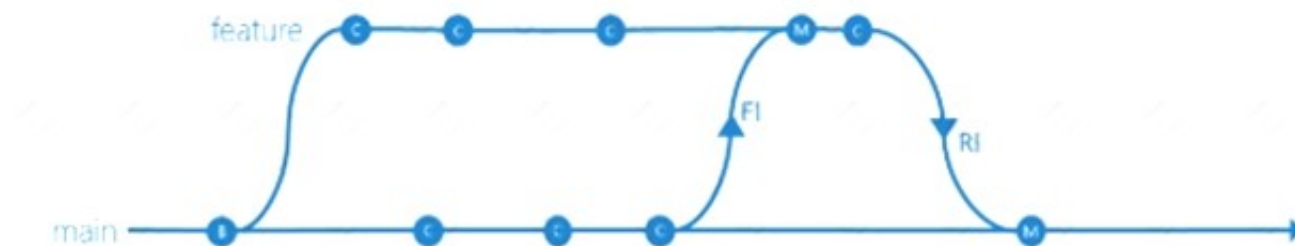
Which branching strategy should you recommend for the investment planning applications suite?

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

Answer: C

Explanation:

Scenario: A branching strategy that supports developing new functionality in isolation must be used. Feature isolation is a special derivation of the development isolation, allowing you to branch one or more feature branches from main, as shown, or from your dev branches.



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

NEW QUESTION 277

- (Exam Topic 1)

You are using GitHub as a source code repository.

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

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

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

Answer: B

Explanation:

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

Reference:

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

NEW QUESTION 282

- (Exam Topic 1)

You have Azure Pipelines and GitHub integrated as a source code repository.

The build pipeline has continuous integration enabled.

You plan to trigger an automated build whenever code changes are committed to the repository. You need to ensure that the system will wait until a build completes before queuing another build. What should you implement?

- A. path filters
- B. batch changes
- C. scheduled builds
- D. branch filters

Answer: B

Explanation:

Batching CI runs

If you have many team members uploading changes often, you may want to reduce the number of runs you start. If you set batch to true, when a pipeline is running, the system waits until the run is completed, then starts another run with all changes that have not yet been built.

Example:

specific branch build with batching trigger:

batch: true branches: include:

- master

To clarify this example, let us say that a push A to master caused the above pipeline to run. While that pipeline is running, additional pushes B and C occur into the repository. These updates do not start new independent runs immediately. But after the first run is completed, all pushes until that point of time are batched together and a new run is started.

Reference:

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

NEW QUESTION 286

- (Exam 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 git 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, Git 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 Git is simple. The easiest way is to specify -a when you run the tag command: Example:

\$ git tag -a v1.4 -m "my version 1.4" Box 3: -m

Reference:

<https://git-scm.com/book/en/v2/Git-Basics-Tagging>

NEW QUESTION 290

- (Exam Topic 4)

You have a containerized solution that runs in Azure Container Instances. The solution contains a frontend container named App1 and a backend container named DB1. DB1 loads a large amount of data during startup.

You need to verify that DB1 can handle incoming requests before users can submit requests to Appl. What should you configure?

- A. a liveness probe
- B. an Azure Load Balancer health probe
- C. a readiness probe
- D. a performance log

Answer: C

Explanation:

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.

Reference:

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

NEW QUESTION 295

- (Exam Topic 4)

You have a project in Azure DevOps named Project1.

You implement a Continuous Integration/Continuous Deployment (CI/CD) pipeline that uses PowerShell Desired State Configuration (DSC) to configure the application infrastructure.

You need to perform a unit test and an integration test of the configuration before Project1 is deployed. What should you use?

- A. the PSScriptAnalyzer tool

- B. the Pester test framework
- C. the PSCodeHealth module
- D. the Test-DscConfiguration cmdlet

Answer: B

Explanation:

You should use the Pester test framework to perform a unit test and an integration test of the configuration before Project1 is deployed. The Pester test framework is a PowerShell testing framework that can be used to validate PowerShell DSC configurations.

NEW QUESTION 298

- (Exam Topic 4)

You need to ensure that Microsoft Visual Studio 2017 can remotely attach to an Azure Function named fa-11566895. To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Enable Remote Debugging

Before we start a debugging session to our Azure Function app we need to enable the functionality.

- Navigate in the Azure portal to your function app fa-11566895
- Go to the "Application settings"
- Under "Debugging" set Remote Debugging to On and set Remote Visual Studio version to 2017. Reference: <https://www.locktar.nl/uncategorized/azure-remote-debugging-manually-in-visual-studio-2017/>

NEW QUESTION 300

- (Exam 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 304

- (Exam 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 306

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