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AZ-400 Designing and Implementing Microsoft DevOps Solutions

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Microsoft AZ-400 (Designing and Implementing Microsoft DevOps Solutions) Certification Exam is a comprehensive exam that prepares candidates for designing and implementing DevOps solutions on Microsoft Azure. DevOps is an emerging field that combines software development and operations to improve the efficiency and reliability of software delivery. Designing and Implementing Microsoft DevOps Solutions certification exam is designed to test the candidate's knowledge and skills in various areas of DevOps, including continuous integration and delivery, infrastructure as code, security, monitoring, and collaboration.

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Microsoft Designing and Implementing Microsoft DevOps Solutions Sample Questions (Q196-Q201):

NEW QUESTION # 196

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

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

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

Actions Commands Cmdlets Statements

Run Code Analysis
Visual Studio Test
Publish Build Artifacts
Visual Studio Build
Prepare Analysis Configuration

Answer Area



Answer:

Explanation:

Actions Commands Cmdlets Statements	Answer Area
Run Code Analysis	Prepare Analysis Configuration
Visual Studio Test	Visual Studio Build
Publish Build Artifacts	Visual Studio Test
Visual Studio Build	Run Code Analysis
Prepare Analysis Configuration	

Explanation:

Prepare Analysis Configuration
Visual Studio Build
Visual Studio Test
Run Code Analysis

Step 1: Prepare Analysis Configuration

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

This task is mandatory.

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

Step 2: Visual Studio Build

Reorder the tasks to respect the following order:

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

Step 3: Visual Studio Test

Reorder the tasks to respect the following order:

Run Code Analysis task after the Visual Studio Test task.

Step 4: Run Code Analysis

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

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

/Gradle build.

Note:



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

NEW QUESTION # 197

Your company has a project in Azure DevOps.

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

The templates will reference secrets stored in Azure Key Vault.

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

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

NOTE: Each correct selection is worth one point.

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

Answer:

Explanation:

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

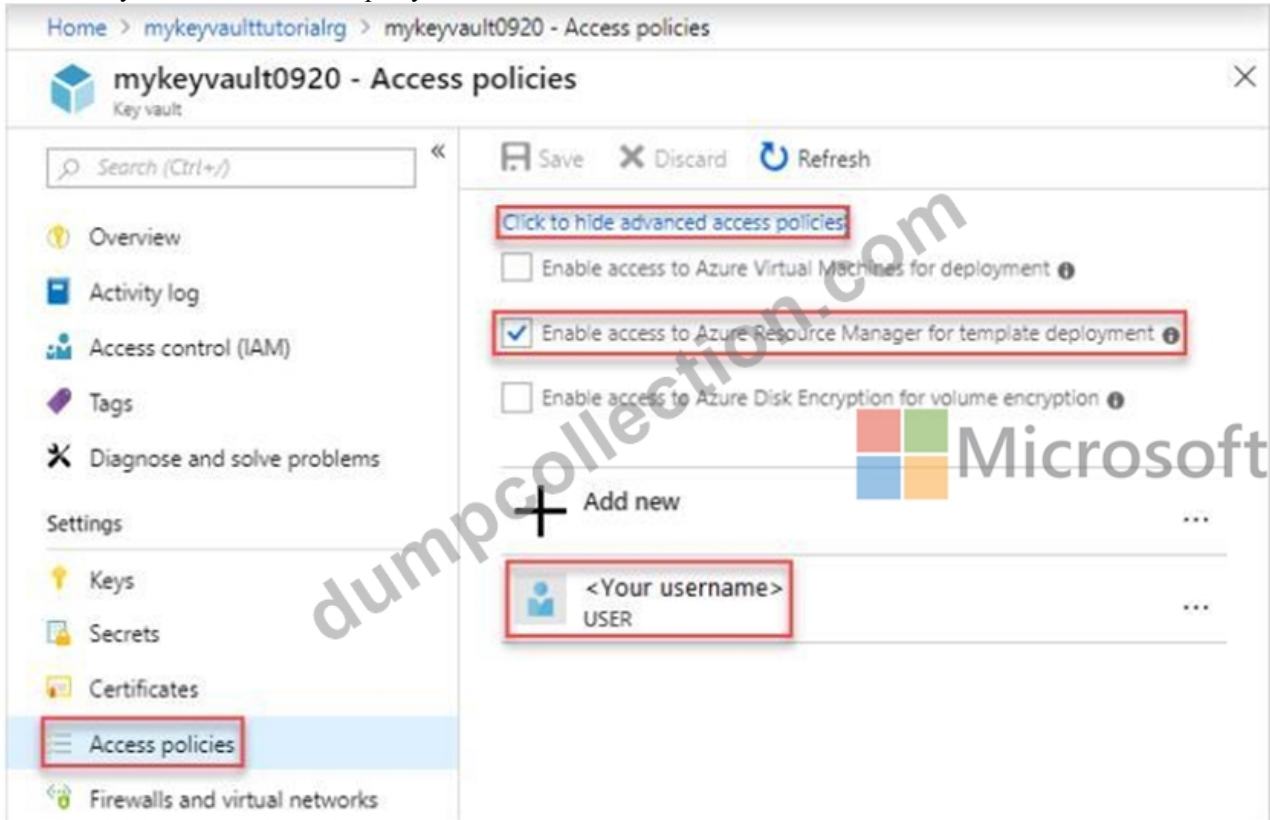
Explanation

Answer Area

Enable key vaults for template deployment by using: A Key Vault advanced access policy

Restrict access to the secrets in Key Vault by using: RBAC

Box 1: A key Vault advanced access policy



Box 2: RBAC

Management plane access control uses RBAC.

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

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

References:

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

NEW QUESTION # 198

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

Answer:

Explanation:

Actions

Open the release pipeline editor.

Open the **Triggers** tab.

Disable the continuous integration trigger.

Enable Gates

Add a manual intervention task

Add Query Work Items.

Answer Area

1 Open the release pipeline editor.

2 Enable Gates

3 Add Query Work Items.

Explanation

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

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

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

Scenario:

Project 1

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

Microsoft

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-vsts>

<https://mohitgoyal.co/2019/01/10/run-azure-devops-private-agents-in-kubernetes-clusters/>

NEW QUESTION # 199

You use Azure Pipelines to automate Continuous Integration/Continuous Deployment (CI/CD) for an Azureweb app named WebApp1.

You configure an Azure Monitor alert that is triggered when WebApp1 generates an error.

You need to configure the alert to forward details of the error to a third-party system. The solution must minimize administrative effort.

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

Answer:

Explanation:



Box 1: Create an Azure logic app.

Box 2: Select the HTTP request trigger.

Box 3: Updated the action group in Azure Monitor.

Reference:

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

NEW QUESTION # 200

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

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

Name	Event ID
VM1	[704,701,1501,1500, 1085]
VM2	[326,105,302,301,300,102]
...	...

How should you complete the Azure Monitor query? To answer, drag the appropriate values to the correct locations. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Answer:

Explanation:

Explanation

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

Example:

Event

```
| where TimeGenerated > ago(12h)
| order by TimeGenerated desc
| summarize makelist(EventID) by Computer
```

Reference:

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

NEW QUESTION # 201

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