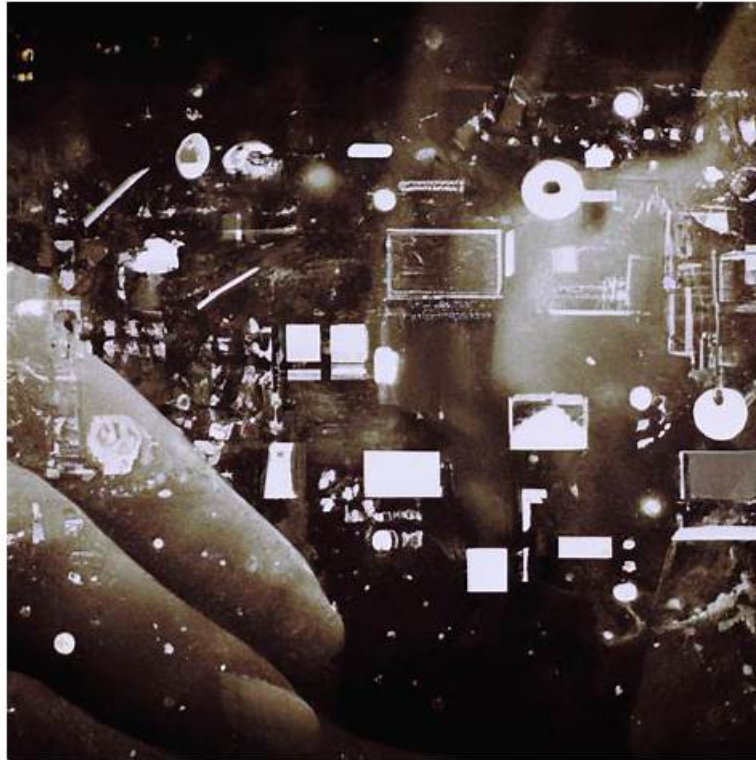


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Microsoft AZ-400 certification exam is designed for professionals who want to showcase their skills and expertise in designing and implementing DevOps solutions using Microsoft technologies. AZ-400 exam tests the ability of the candidates to use various tools and services provided by Microsoft Azure to build, deploy, and manage applications in a DevOps environment. AZ-400 exam also covers topics such as continuous integration and delivery, security, compliance, and monitoring.

To pass the AZ-400 exam, candidates need to have a deep understanding of DevOps principles, tools, and practices. They should be able to design and implement DevOps solutions that meet business requirements and improve software quality. They should also be able to troubleshoot and optimize DevOps pipelines, and ensure that they are secure, scalable, and reliable.

The Microsoft AZ-400 Exam consists of 40-60 multiple-choice questions with a time limit of 150 minutes. To qualify for AZ-400 exam, candidates should have a good understanding of automation techniques and tools, knowledge of Azure and other Microsoft technologies used in the DevOps pipeline, and hands-on experience with Agile methodologies. Passing this certification exam demonstrates that an individual has the skills and knowledge necessary to design and implement DevOps practices using Microsoft technologies.

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Material

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Microsoft Designing and Implementing Microsoft DevOps Solutions Sample Questions (Q327-Q332):

NEW QUESTION # 327

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

Answer: A

Explanation:

Explanation

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

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

Topic 2, Case Study: 1 Overview

Existing Environment

Litware, Inc. is an independent software vendor (ISV). Litware has a main office and five branch offices.

Application Architecture

The company's primary application is a single monolithic retirement fund management system based on ASP.NET web forms that use logic written in VB.NET. Some new sections of the application are written in C#.

Variations of the application are created for individual customers. Currently, there are more than 80 code branches in the application's code base.

The application was developed by using Microsoft Visual Studio. Source code is stored in Team Foundation Server (TFS) in the main office. The branch offices access the source code by using TFS proxy servers.

Architectural Issues

Litware focuses on writing new code for customers. No resources are provided to refactor or remove existing code. Changes to the code base take a long time, and dependencies are not obvious to individual developers.

Merge operations of the code often take months and involve many developers. Code merging frequently introduces bugs that are difficult to locate and resolve.

Customers report that ownership costs of the retirement fund management system increase continually. The need to merge unrelated code makes even minor code changes expensive.

Requirements

Planned Changes

Litware plans to develop a new suite of applications for investment planning. The investment planning Applications will require only minor integration with the existing retirement fund management system.

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

Litware plans to move to a more agile development methodology. Shared code will be extracted into a series of packages.

Litware has started an internal cloud transformation process and plans to use cloud-based services whenever suitable.

Litware wants to become proactive in detecting failures, rather than always waiting for customer bug reports.

Technical Requirements

The company's investment planning applications suite must meet the following technical requirements:

- * New incoming connections through the firewall must be minimized.
- * Members of a group named Developers must be able to install packages.
- * The principle of least privilege must be used for all permission assignments.
- * A branching strategy that supports developing new functionality in isolation must be used.
- * Members of a group named Team Leaders must be able to create new packages and edit the permissions of package feeds.

- * Visual Studio App Center must be used to centralize the reporting of mobile application crashes and device types in use.
- * By default, all App Center must be used to centralize the reporting of mobile application crashes and device types in use.
- * Code quality and release quality are critical. During release, deployments must not proceed between stages if any active bugs are logged against the release.
- * The mobile applications must be able to call the share pricing service of the existing retirement fund management system. Until the system is upgraded, the service will only support basic authentication over HUPS.
- * The required operating system configuration for the test servers changes weekly. Azure Automation State Configuration must be used to ensure that the operating system on each test servers configured the same way when the servers are created and checked periodically.

Current Technical

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

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

```
Register-AzureRmAutomationDscNode
-ResourceGroupName 'TestResourceGroup'
-AutomationAccountName 'LitwareAutomationAccount'
-AzureVMName $vmname
-ConfigurationMode 'ApplyOnly'
```

NEW QUESTION # 328

You need to configure Azure Automation for the computers in Pool7.

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

- Run the New-AzureRmResourceGroupDeployment Azure PowerShell cmdlet.
- Create an Azure Resource Manager template file that has an extension of .json.
- Run the Import-AzureRmAutomationDscConfiguration Azure PowerShell cmdlet.
- Run the Start-AzureRmAutomationDscCompilationJob Azure PowerShell cmdlet.
- Create a Desired State Configuration (DSC) configuration file that has an extension of .ps1.

Answer Area

1

➤

2

⬅

3

⬆

⬆

Answer:

Explanation:

Actions

Run the new-AzureRmResourceGroupDeployment Azure PowerShell cmdlet.

Create an Azure Resource Manager template file that has an extension of .json.

Run the Import-AzureRmAutomationDscConfiguration Azure PowerShell cmdlet.

Run the Start-AzureRmAutomationDscCompilationJob Azure PowerShell cmdlet.

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

➤

➤

Answer Area

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

2 Run the Import-AzureRmAutomationDscConfiguration Azure PowerShell cmdlet.

3 Run the Start-AzureRmAutomationDscCompilationJob Azure PowerShell cmdlet.

⬆

⬆

Explanation

Actions

Run the new-AzureRmResourceGroupDeployment Azure PowerShell cmdlet.

Create an Azure Resource Manager template file that has an extension of .json.

➤

➤

Answer Area

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

2 Run the Import-AzureRmAutomationDscConfiguration Azure PowerShell cmdlet.

3 Run the Start-AzureRmAutomationDscCompilationJob Azure PowerShell cmdlet.

⬆

⬆

NEW QUESTION # 329

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

Customer name	Preferred process
Litware, Inc.	Track product backlog items (PBIs) and bugs on the Kanban board. Break the PBIs down into tasks on the task board.
Contoso, Ltd.	Track user stories and bugs on the Kanban board. Track the bugs and tasks on the task board.
A. Datum Corporation	Track requirements, change requests, risks, and reviews.

The customers all plan to use Azure DevOps for work item management.

Which work item process should you use for each customer? To answer, drag the appropriate work item process to the correct customers. Each work item process may be used once, more than once, or not at all.

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

NOTE: Each correct selection is worth one point.

Processes

Agile
CMMI
Scrum
XP

Answer Area

Litware

Contoso:

A. Datum:



Answer:

Explanation:

Processes

Agile
CMMI
Scrum
XP

Answer Area

Litware

Contoso:

A. Datum:



Scrum
Agile
CMMI

Explanation:

Litware

Contoso:

A. Datum:



Scrum
Agile
CMMI

Box 1: Scrum

Choose Scrum when your team practices Scrum. This process works great if you want to track product backlog items (PBIs) and bugs on the Kanban board, or break PBIs and bugs down into tasks on the taskboard.

Box 2: Agile

Choose Agile when your team uses Agile planning methods, including Scrum, and tracks development and test activities separately. This process works great if you want to track user stories and (optionally) bugs on the Kanban board, or track bugs and tasks on the taskboard.

Box 3: CMMI

Choose CMMI when your team follows more formal project methods that require a framework for process improvement and an auditable record of decisions. With this process, you can track requirements, change requests, risks, and reviews.

References:

<https://docs.microsoft.com/en-us/azure/devops/boards/work-items/guidance/choose-process?view=azure-devops>

NEW QUESTION # 330

Your company is building a new web application.

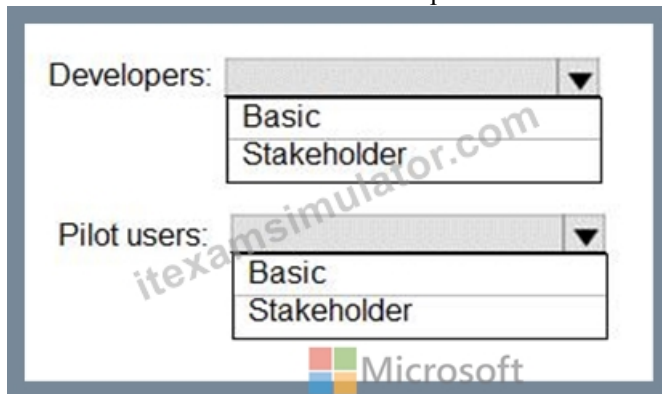
You plan to collect feedback from pilot users on the features being delivered.

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

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

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

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



Reference:

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

NEW QUESTION # 331

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

Answer: C

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 # 332

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