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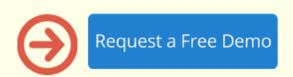
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Microsoft

AZ-400 Exam

Microsoft Azure DevOps Solutions Exam

Questions & Answers Demo

Version: 8.0

Case Study: 1

Overview

Existing Environment

Litware, Inc. e 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.NE T web forms that use logic written in V8.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 have 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 of 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, AS 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 easting 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 package.

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

Litware wants to become proactive m detecting failures, rather than always waning 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 tor 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 \$vmanme
- -ConfigurationMode 'ApplyOnly'

Question: 1

HOTSPOT

How should you complete the code to initialize App Center in the mobile application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection a worth one point.

```
MSAppCenter.start
( "{Your App Secret}",
  withServices:
)
                       [MSAnalytics.self,
                                                 MSAnalytics.self]
                       [MSDistribute.self,
                                                 MSCrashes.self]
                                                  MSDistribute.self]
                        MSPush.self,
                                                              Answer:
MSAppCenter.start
( "{Your App Secret}",
  withServices:
)
                       [MSAnalytics.self,
                                                 MSAnalytics.self
                       [MSDistribute.self,
                                                 MSCrashes.self]
                       MSPush.self,
                                                 MSDistribute.self]
```

Explanation:

Scenario: Visual Studio App Center must be used to centralize the reporting of mobile application crashes and device types in use.

In order to use App Center, you need to opt in to the service(s) that you want to use, meaning by default no services are started and you will have to explicitly call each of them when starting the SDK. Insert the following line to start the SDK in your app's AppDelegate class in the didFinishLaunchingWithOptions method.

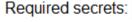
MSAppCenter.start("{Your App Secret}", withServices: [MSAnalytics.self, MSCrashes.self]) References:

https://docs.microsoft.com/en-us/appcenter/sdk/getting-started/ios

Question: 2

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

NOTE: Each correct selection is worth one point.



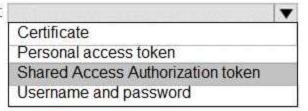


Storage location:

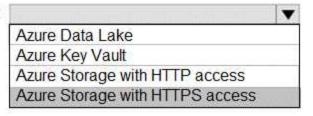
	•
Azure Data Lake	
Azure Key Vault	
Azure Storage with HTTP access	
Azure Storage with HTTPS access	

Answer:

Required secrets:



Storage location:



Explanation:

Every request made against a storage service must be authorized, unless the request is for a blob or container resource that has been made available for public or signed access. One option for authorizing a request is by using Shared Key.

Scenario: The mobile applications must be able to call the share pricing service of the existing retirement fund management system. Until the system is upgraded, the service will only support basic

authentication over HTTPS.

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

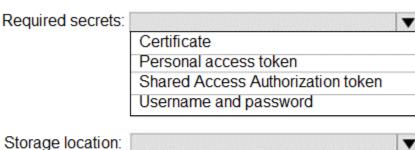
References:

https://docs.microsoft.com/en-us/rest/api/storageservices/authorize-with-shared-key

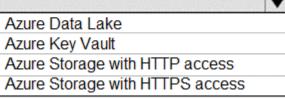
Question: 3	
HOTSPOT	

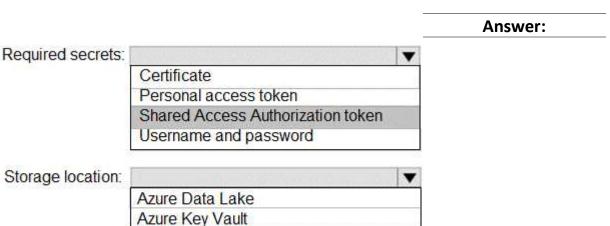
You need to configure a cloud service to store the secrets required by the mobile applications to call the share.

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



Storage location: Az





Explanation:

Every request made against a storage service must be authorized, unless the request is for a blob or

Azure Storage with HTTP access
Azure Storage with HTTPS access

container resource that has been made available for public or signed access. One option for authorizing a request is by using Shared Key.

Scenario: The mobile applications must be able to call the share pricing service of the existing retirement fund management system. Until the system is upgraded, the service will only support basic authentication over HTTPS.

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

References:

https://docs.microsoft.com/en-us/rest/api/storageservices/authorize-with-shared-key

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

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

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Answer: A	7
Aliswci. A	~

Explanation:

Change the ConfigurationMode parameter from ApplyOnly to ApplyAndAutocorrect.

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

Scenario: Current Technical Issue

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

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Register-AzureRmAutomationDscNode

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- -AutomationAccountName 'LitwareAutomationAccount'
- -AzureVMName \$vmanme
- -ConfigurationMode 'ApplyOnly'

References:

 $\frac{https://docs.microsoft.com/en-us/powershell/module/azurerm.automation/register-azurermautomationdscnode?view=azurermps-6.13.0$

What should you use to implement the code quality restriction on the release pipeline for the investment planning applications suite?

- A. a trigger
- B. a pre deployment approval
- C. a post-deployment approval
- D. a deployment gate

Answer: B

Explanation:

When a release is created from a release pipeline that defines approvals, the deployment stops at each point where approval is required until the specified approver grants approval or rejects the release (or re-assigns the approval to another user).

Scenario: Code quality and release quality are critical. During release, deployments must not proceed between stages if any active bugs are logged against the release.

References:

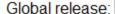
https://docs.microsoft.com/en-us/azure/devops/pipelines/release/approvals/approvals

Question: 6

HOTSPOT

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

NOTE: Each correct selection is worth one point.



Set the default retention policy to 30 days. Set the maximum retention policy to 30 days. Set the stage retention policy to 30 days.

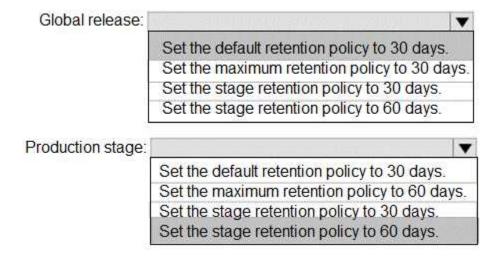
Set the stage retention policy to 60 days.

Production stage:

~

Set the default retention policy to 30 days. Set the maximum retention policy to 60 days. Set the stage retention policy to 30 days. Set the stage retention policy to 60 days.

Answer:



Explanation:

Scenario: By default, all releases must remain available for 30 days, except for production releases, which must be kept for 60 days.

Box 1: Set the default retention policy to 30 days

The Global default retention policy sets the default retention values for all the build pipelines. Authors of build pipelines can override these values.

Box 2: Set the stage retention policy to 60 days

You may want to retain more releases that have been deployed to specific stages.

References:

https://docs.microsoft.com/en-us/azure/devops/pipelines/policies/retention



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