Testpassport問題集

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Exam : AZ-400

Title : Microsoft Azure DevOps Solutions

Version : DEMO

1. Topic 1, Litware inc. Case Study: 1

Overview

Existing Environment

Litware, Inc. 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:

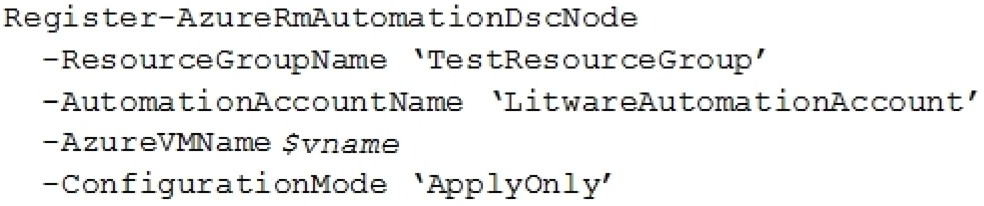
- New incoming connections through the firewall must be minimized.
- Members of a group named Developers must be able to install packages.
- The principle of least privilege must be used for all permission assignments

- 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.

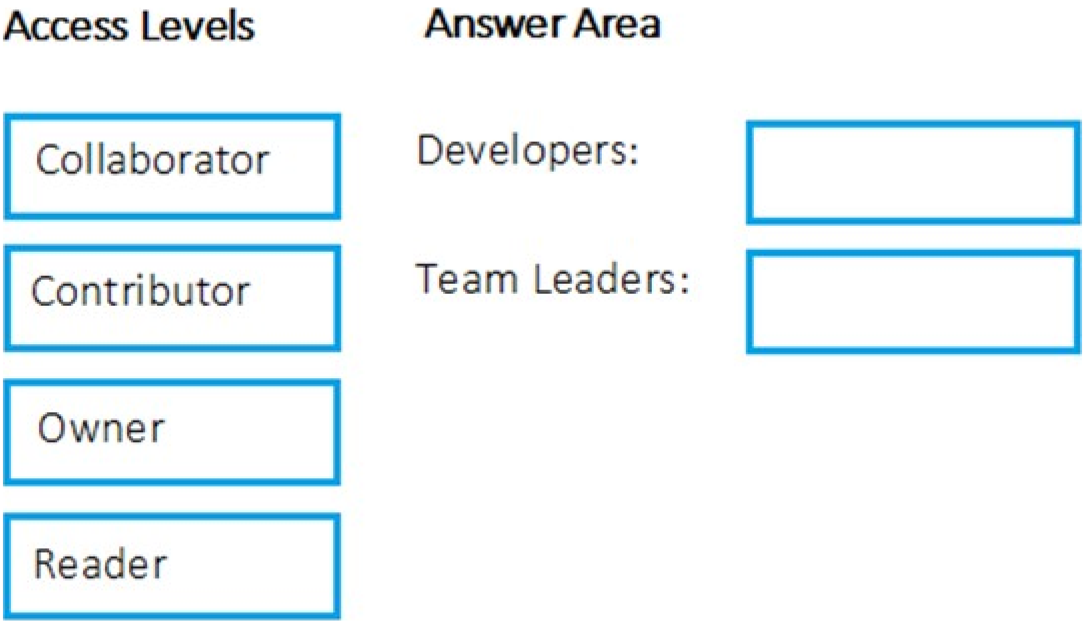
Azure Automation State Configuration nodes are registered by using the following command.



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

DRAG DROP

Which package feed access levels should be assigned to the Developers and Team Leaders groups for the investment planning applications suite? To answer, drag the appropriate access levels to the correct groups. Each access level 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.



Access Levels

Collaborator

Contributor

Owner

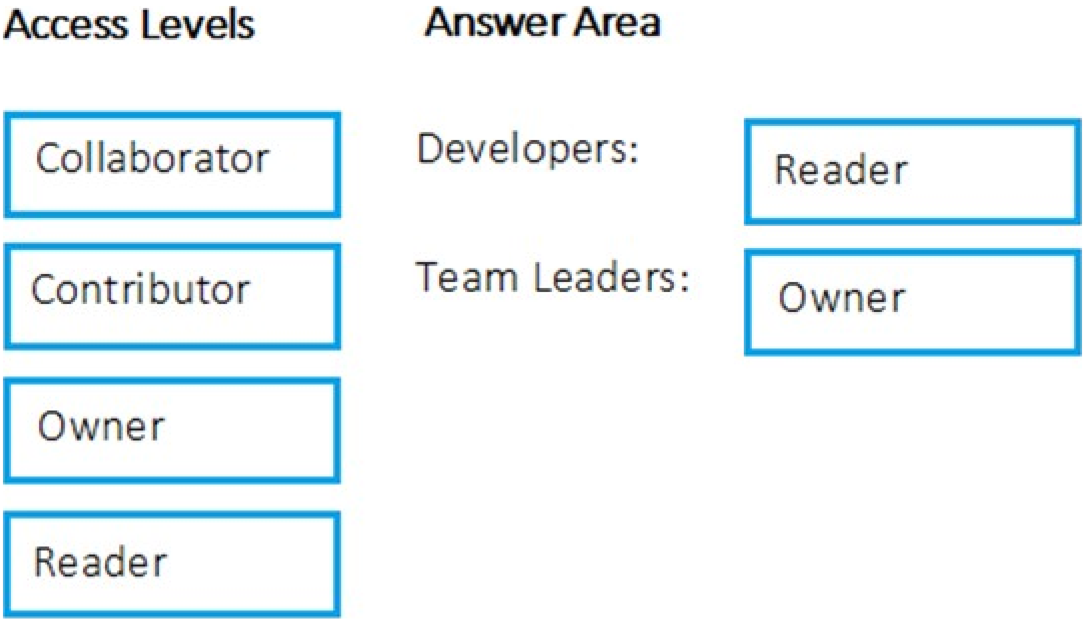
Reader

Answer Area

Developers:

Team Leaders:

Answer:



Access Levels

Collaborator

Contributor

Owner

Reader

Answer Area

Developers: Reader

Team Leaders: Owner

Explanation:

Box 1: Reader

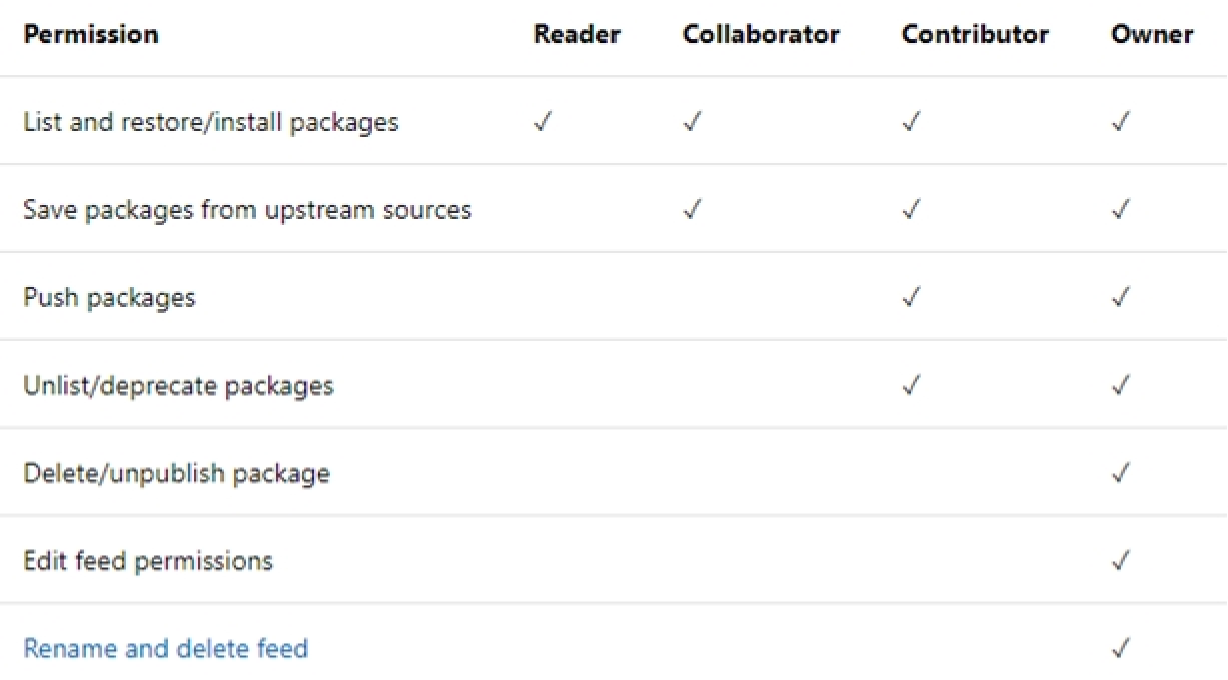
Members of a group named Developers must be able to install packages.

Feeds have four levels of access: Owners, Contributors, Collaborators, and Readers.

Owners can add any type of identity-individuals, teams, and groups-to any access level.

Box 2: Owner

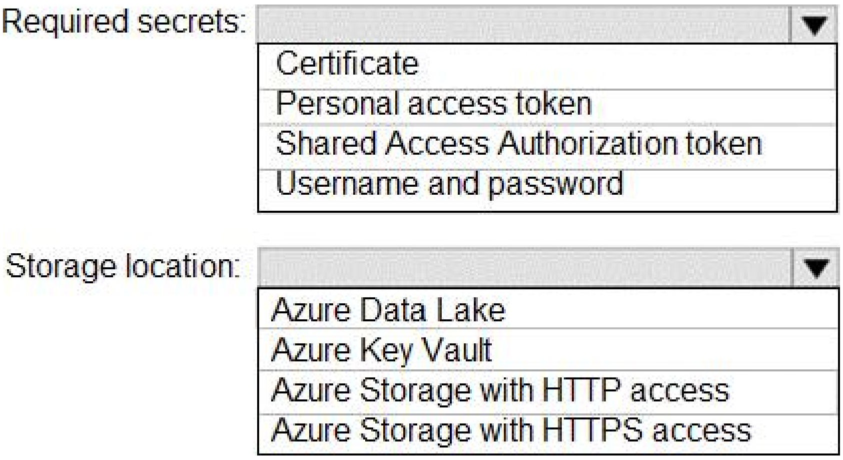
Members of a group named Team Leaders must be able to create new packages and edit the permissions of package feeds.



Permission	Reader	Collaborator	Contributor	Owner
List and restore/install packages	✓	✓	✓	✓
Save packages from upstream sources		✓	✓	✓
Push packages			✓	✓
Unlist/deprecate packages			✓	✓
Delete/unpublish package				✓
Edit feed permissions				✓
Rename and delete feed				✓

2.HOTSPOT

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.



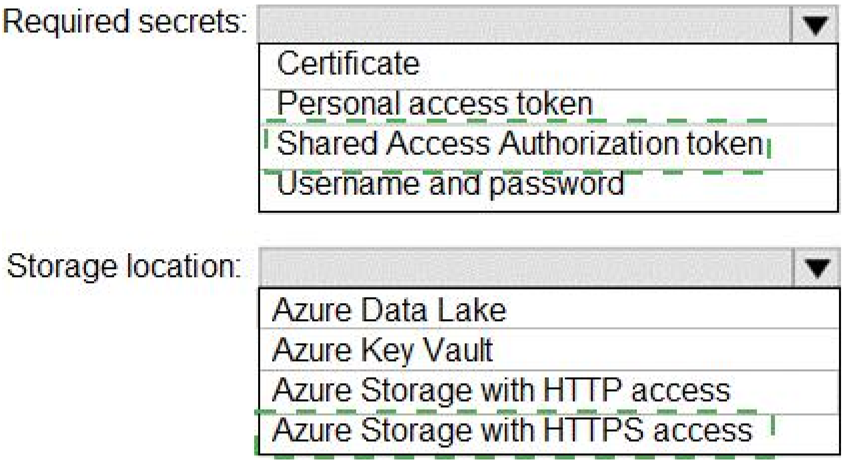
Required secrets:

- Certificate
- Personal access token
- Shared Access Authorization token
- Username and password

Storage location:

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

Answer:



Required secrets:

- Certificate
- Personal access token
- [✓ Shared Access Authorization token]
- Username and password

Storage location:

- Azure Data Lake
- Azure Key Vault
- Azure Storage with HTTP access
- [✓ Azure Storage with HTTPS access]

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

3.You have a project in Azure DevOps.

You plan to deploy a self-hosted agent by using an unattended configuration script.

Which two values should you define in the configuration script? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. authorization credentials

B. the project name

C. the deployment group name

D. the organization URL

E. the agent pool name

Answer: A,D

Explanation:

Unattended config:

The agent can be set up from a script with no human intervention. You must pass -- unattended and the answers to all questions.

To configure an agent, it must know the URL to your organization or collection and credentials of someone authorized to set up agents. All other responses are optional.

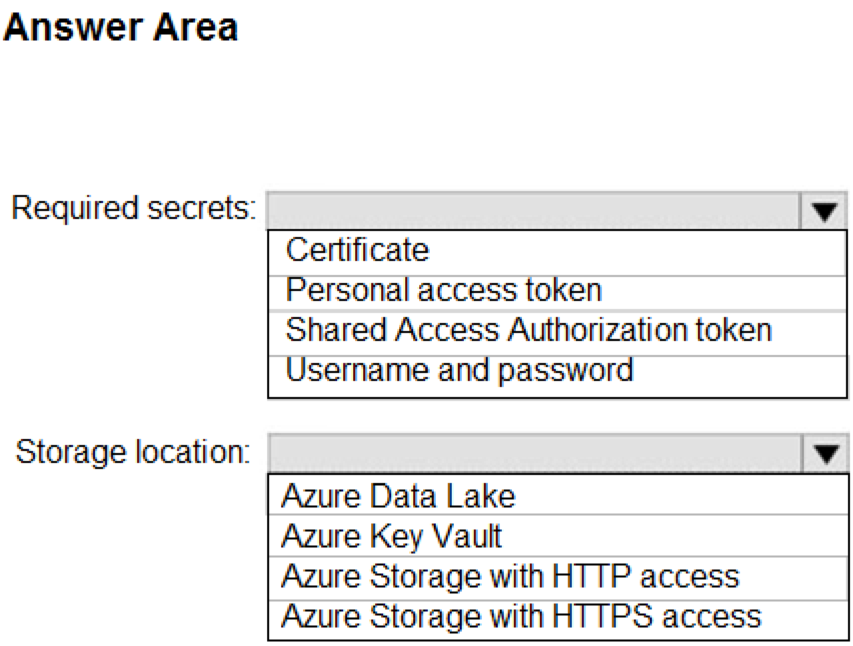
Reference: https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/v2-windows

4.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 area.

NOTE: Each correct selection is worth one point.



Answer Area

Required secrets:
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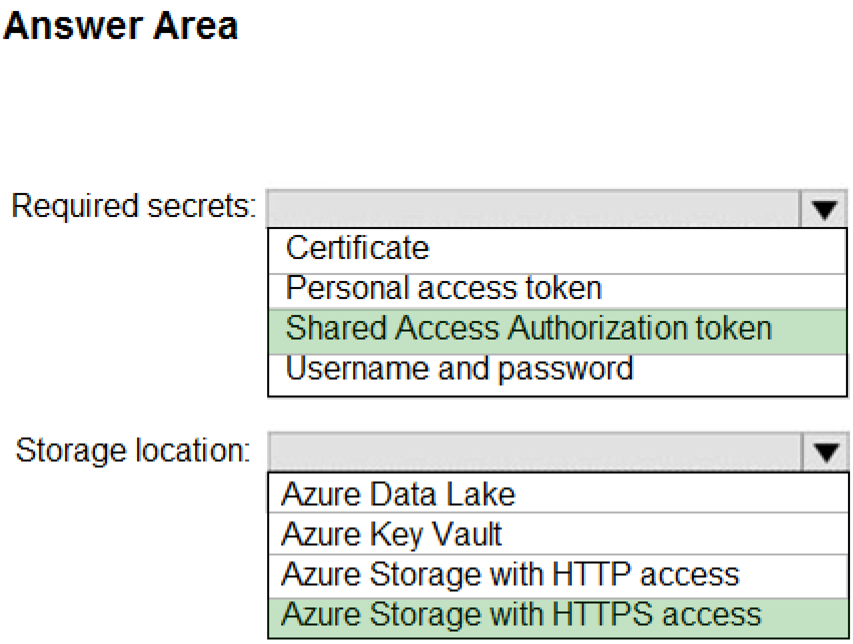
Answer:



Answer Area

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

5.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