

Microsoft Azure DevOps Solutions v1.0 (AZ-400)

Page: 5 / 38

Total 186 questions



10 questions per page ▼

Question 21 (Question Set 1)



You store source code in a Git repository in Azure repos. You use a third-party continuous integration (CI) tool to control builds.

What will Azure DevOps use to authenticate with the tool?

- A. certificate authentication
- B. a personal access token (PAT)
- C. a Shared Access Signature (SAS) token
- D. NTLM authentication

[Expose Correct Answer](#)

Answer : **B**

Explanation:

Personal access tokens (PATs) give you access to Azure DevOps and Team Foundation Server (TFS), without using your username and password directly.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/repos/git/auth-overview>

[Next Question](#)

Question 22 (Question Set 1)



During a code review, you discover quality issues in a Java application.

You need to recommend a solution to detect quality issues including unused variables and empty catch blocks.

What should you recommend?

- A. In a Maven build task, select Run PMD.

- B.** In an Xcode build task, select Use xcpretty from Advanced.
- C.** In a Gulp build task, specify a custom condition expression.
- D.** In a Grunt build task, select Enabled from Control Options.

Expose Correct Answer

Answer : **A**

Explanation:

PMD is a source code analyzer. It finds common programming flaws like unused variables, empty catch blocks, unnecessary object creation, and so forth.

There is an Apache Maven PMD Plugin which allows you to automatically run the PMD code analysis tool on your project's source code and generate a site report with its results.

Incorrect Answers:

B: xcpretty is a fast and flexible formatter for xcodebuild.

Reference:

<https://pmd.github.io/>

Next Question

Question 23 (Question Set 1)



Your company creates a new Azure DevOps team.
You plan to use Azure DevOps for sprint planning.
You need to visualize the flow of your work by using an agile methodology.
Which Azure DevOps component should you use?

- A.** Kanban boards
- B.** sprint planning
- C.** delivery plans
- D.** portfolio backlogs

Expose Correct Answer

Answer : **A**

Explanation:

Customizing Kanban boards -

To maximize a team's ability to consistently deliver high quality software, Kanban emphasize two main practices. The first, visualize the flow of work, requires you to map your team's workflow stages and configure your Kanban board to match. Your Kanban board turns your backlog into an interactive signboard, providing a visual flow of work.

Reference:

<https://azuredevopslabs.com/labs/azuredevops/agile/>

Implement DevOps Development Processes

Next Question

Question 24 (Testlet 1)



Case Study -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other question in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview -

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

Existing Environment -

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 live 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, 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.

Customers report that bug reporting is overly complex.

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 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 releases must remain available for 30 days, except for production releases, which must be kept for 60 days.

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 HTTPS.

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 server is configured the same way when the servers are created and checked periodically.

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.

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

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

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.

Expose Correct Answer

Answer : **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.

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

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

References:

<https://docs.microsoft.com/en-us/powershell/module/azurerm.automation/register-azurermautomationdscnode?view=azurerm-ps-6.13.0>

Next Question

Question 25 (Testlet 1)



Case Study -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other question in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview -

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

Existing Environment -

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 live 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, 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.

Customers report that bug reporting is overly complex.

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 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 releases must remain available for 30 days, except for production releases, which must be kept for 60 days.

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 HTTPS.

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 server is configured the same way when the servers are created and checked periodically.

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.

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

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

HOTSPOT -

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

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Required secrets:

<input type="checkbox"/>	Certificate
<input type="checkbox"/>	Personal access token
<input type="checkbox"/>	Shared Access Authorization token
<input type="checkbox"/>	Username and password

Storage location:

<input type="checkbox"/>	Azure Data Lake
<input type="checkbox"/>	Azure Key Vault
<input type="checkbox"/>	Azure Storage with HTTP access
<input type="checkbox"/>	Azure Storage with HTTPS access

Expose Correct Answer

Answer :

Answer Area

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>

Next Question

Page: 5 / 38

Total 186 questions



Previous Page

Next Page



10 questions per page ▼

CONNECT WITH US



Facebook



Twitter



Youtube



support@itexams.com

DMCA & LEGAL

ITExams doesn't offer Real Microsoft Exam Questions.

ITExams Materials do not contain actual questions and answers from Cisco's Certification Exams.

CFA Institute does not endorse, promote or warrant the accuracy or quality of ITExams. CFA® and Chartered Financial Analyst® are registered trademarks owned by CFA Institute.