AZ-400^{Q&As}

Designing and Implementing Microsoft DevOps Solutions

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QUESTION 1

HOTSPOT

Where should the build and release agents for the investment planning application suite run? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Build agent:

- A hosted service
- A source control system
- The developers' computers

Release agent:

- A hosted service
- A source control system
- The developers' computers

Correct Answer:

Answer Area

Build agent:

- A hosted service
- **A source control system**
- The developers' computers

Release agent:

- **A hosted service**
- A source control system
- The developers' computers

Box 1: A source control system

A source control system, also called a version control system, allows developers to collaborate on code and track changes. Source control is an essential tool for multi-developer projects.

Box 2: A hosted service

To build and deploy Xcode apps or Xamarin.iOS projects, you\'ll need at least one macOS agent. If your pipelines are in Azure Pipelines and a Microsoft-hosted agent meets your needs, you can skip setting up a self-hosted macOS agent.

Scenario: 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.

References:

https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/v2-osx?view=azure-devops

QUESTION 2

You scan a Node.js application using WhiteSource Bolt.

The scan finds numerous libraries with invalid licenses, but are only used during development.

You have to make sure that only production dependencies are scanned by WhiteSource Bolt.

Which of the following is a command you should run?

A. npm edit

B. npm publish

C. npm install

D. npm update

Correct Answer: C

Reference: https://whitesource.atlassian.net/wiki/spaces/WD/pages/34209870/NPM+Plugin
https://nodejs.org/en/knowledge/getting-started/npm/what-is-the-file-package-json

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QUESTION 3

DRAG DROP

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.

Select and Place:

Processes

Agile

CMMI

Scrum

XP

Answer Area

Litware

Contoso:

A. Datum:

Correct Answer:

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.

Incorrect Answers:

XP:

The work tracking objects contained within the default DevOps processes and DevOps process templates are Basic, Agile, CMMI, and Scrum

XP (Extreme Programming) and DevOps are different things. They don\\'t contradict with each other, they can be used together, but they have different base concepts inside them.

References:

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

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QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You integrate a cloud-hosted Jenkins server and a new Azure DevOps deployment.

You need Azure DevOps to send a notification to Jenkins when a developer commits changes to a branch in Azure Repos.

Solution: You create a service hook subscription that uses the code pushed event.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

You can create a service hook for Azure DevOps Services and TFS with Jenkins.

References: https://docs.microsoft.com/en-us/azure/devops/service-hooks/services/jenkins

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QUESTION 5

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You run the Register-AzureRmAutomationDscNode command in your company\\'s environment.

You need to make sure that your company\\'s test servers remain correctly configured, regardless of configuration drift.

Solution: You set the -ConfigurationMode parameter to ApplyOnly.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

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

QUESTION 6

![Pass2Lead](https://Pass2Lead.com)
You plan to deploy a new database environment. The solution must meet the technical requirements. You need to prepare the database for the deployment.

How should you format the export?

A. NDF

B. MDF

C. BACPAC

D. DACPAC

Correct Answer: D

QUESTION 7

You have a web app hosted on Azure App Service. The web app stores data in an Azure SQL database. You need to generate an alert when there are 10,000 simultaneous connections to the database. The solution must minimize deve4opment effort.
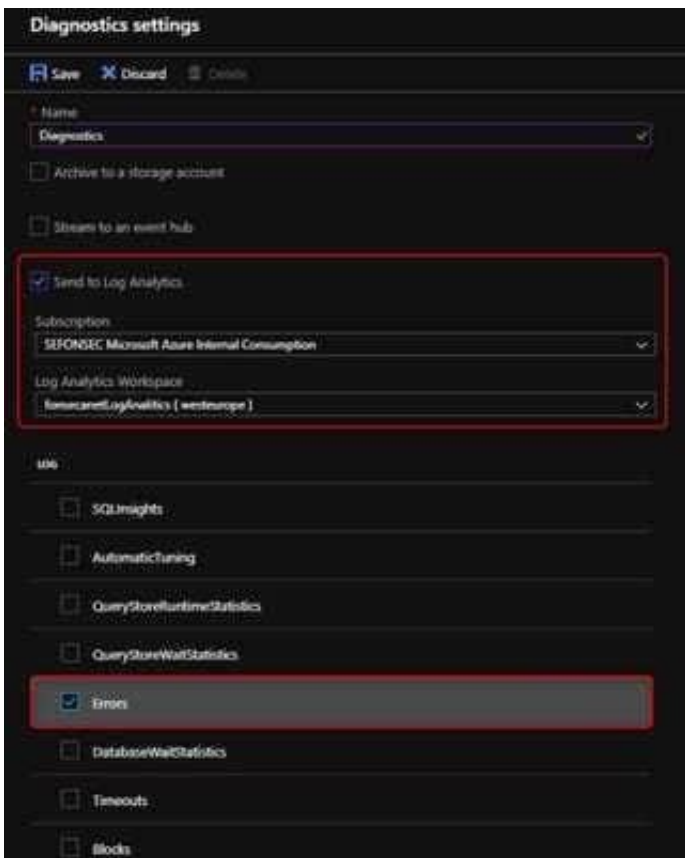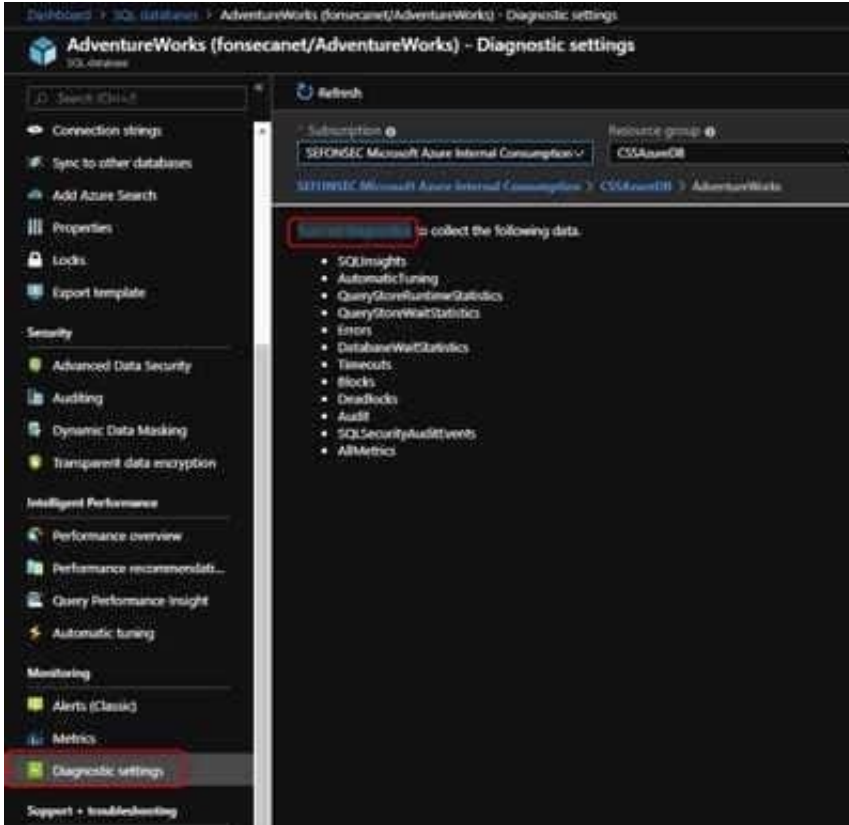
Which option should you select in the Diagnostics settings of the database?

A. Send to Log Analytics

B. Archive to m storage account

C. Stream to an event hub

Correct Answer: A

ENABLE DIAGNOSTICS TO LOG ANALYTICS This configuration is done PER DATABASE

1.

 Click on Diagnostics Settings and then Turn On Diagnostics

2.

 Select to Send to Log Analytics and select the Log Analytics workspace. For this sample I will selected only Errors

Reference: https://techcommunity.microsoft.com/t5/azure-database-support-blog/azure-sql-db-and-log-analytics-better-together-part-1/ba-p/794833

![Pass2Lead](https://Pass2Lead.com)
QUESTION 8

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure DevOps organization named Contoso and an Azure subscription. The subscription contains an Azure virtual machine scale set named VMSS1 that is configured for autoscaling.

You have a project in Azure DevOps named Project1. Project1 is used to build a web app named App1 and deploy App1 to VMSS1.

You need to ensure that an email alert is generated whenever VMSS1 scales in or out.

Solution: From Azure Monitor, create an action group.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

An action group is a collection of notification preferences defined by the owner of an Azure subscription. Azure Monitor, Service Health and Azure Advisor alerts use action groups to notify users that an alert has been triggered.

Reference: https://docs.microsoft.com/en-us/azure/azure-monitor/alerts/action-groups

QUESTION 9

HOTSPOT

You currently use JIRA, Jenkins, and Octopus as part of your DevOps processes.

You plan to use Azure DevOps to replace these tools.

Which Azure DevOps service should you use to replace each tool? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

JIRA:
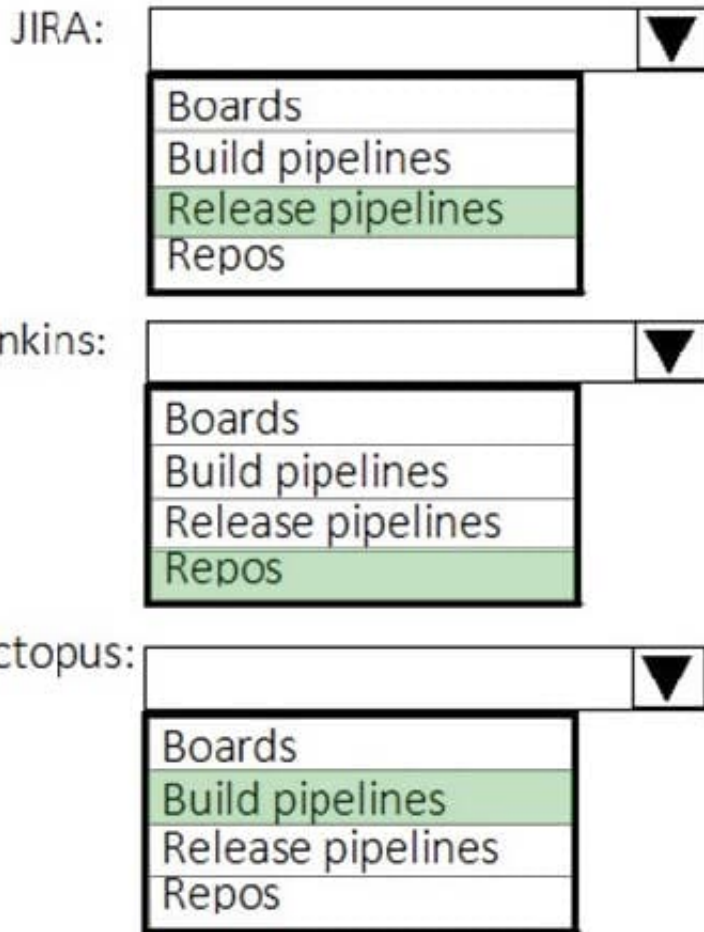| Boards |
| Build pipelines |
| Release pipelines |
| Repos |

Jenkins:
| Boards |
| Build pipelines |
| Release pipelines |
| Repos |

Octopus:
| Boards |
| Build pipelines |
| Release pipelines |
| Repos |

Correct Answer:

JIRA:

Boards
Build pipelines
Release pipelines
Repos

Jenkins:

Boards
Build pipelines
Release pipelines
Repos

Octopus:

Boards
Build pipelines
Release pipelines
Repos

JIRA: Release pipelines Atlassian\\'s Jira Software is a popular application that helps teams to plan, track, and manage software releases, whereas Octopus Deploy helps teams automate their development and operations processes in a fast, repeatable, and reliable manner. Together, they enable teams to get better end-to-end visibility into their software pipelines from idea to production.

Jenkins: Repos One way to integrate Jenkins with Azure Pipelines is to run CI jobs in Jenkins separately. This involves configuration of a CI pipeline in Jenkins and a web hook in Azure DevOps that invokes the CI process when source code is pushed to a repository or a branch.

Octopus: Build pipelines

References: https://octopus.com/blog/octopus-jira-integration

https://www.azuredevopslabs.com/labs/vstsextend/jenkins/

QUESTION 10

You are making use of Azure DevOps manage build pipelines, and also deploy pipelines.

The development team is quite large, and is regularly added to.

You have been informed that the management of users and licenses must be automated when it can be.

Which of the following is a task that can\\'t be automated?

A. Group membership changes

B. License assignment

C. Assigning entitlements

D. License procurement

Correct Answer: D

QUESTION 11

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.

Hot 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

Correct 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

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-withshared-key

QUESTION 12

You have an Azure DevOps project that contains a release pipeline and a Git repository.

When a new code revision is committed to the repository, a build and release is triggered.

You need to ensure that release information for the pipeline is added automatically to the work items associated to the Git commit.
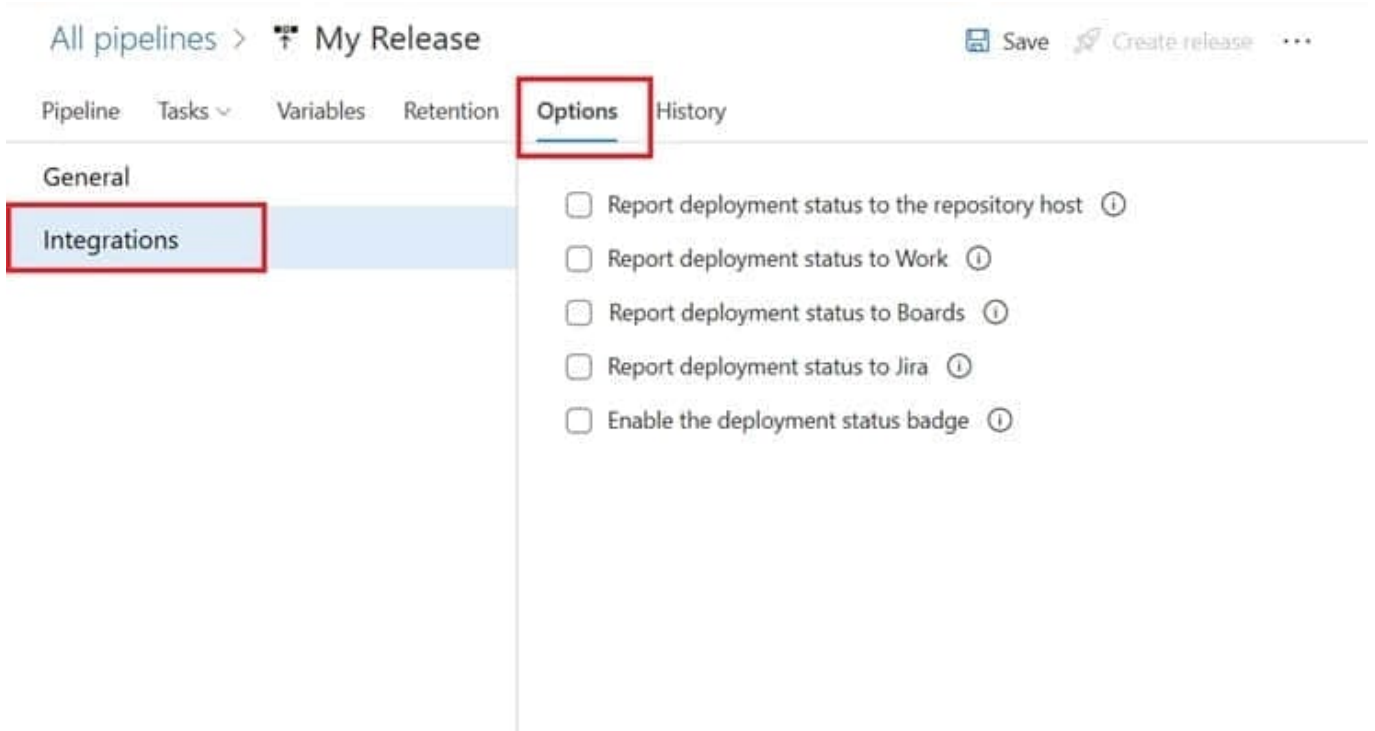
What should you do?

A. Modify the Integrations options for the pipeline.

B. Modify the post-deployment conditions for the last stage of the pipeline.

C. Add an agentless job to the pipeline.

D. Modify the service hooks for the project.

Correct Answer: B

Configure your release definition to post deployment information to Work items.

1. Open Pipelines>Releases, choose to edit your release pipeline, then choose Options>Integrations.

All pipelines > ✌ My Release   💾 Save   🖉 Create release   ⋯

Pipeline   Tasks ∨   Variables   Retention   **Options**   History

General

Integrations

☐ Report deployment status to the repository host ⓘ

☐ Report deployment status to Work ⓘ

☐ Report deployment status to Boards ⓘ

☐ Report deployment status to Jira ⓘ

☐ Enable the deployment status badge ⓘ

Reference: https://docs.microsoft.com/en-us/azure/devops/boards/work-items/work-item-deployments-control

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QUESTION 13

DRAG DROP

Your company has four projects. The version control requirements for each project are shown in the following table.

Project	Requirement
Project 1	Project leads must be able to restrict access to individual files and folders on the repository.
Project 2	The version control system must enforce the following rules on the server before merging any changes to the main branch: • Changes must be reviewed by at least two project members. • Changes must be associated by at least one work item
Project 3	The project members must be able to work in Azure Repos directly from Xcode.
Project 4	The release branch must only be viewable or editable by the project leads.

You plan to use Azure Repos for all the projects.

![Pass2Lead](https://Pass2Lead.com)
Which version control system should you use for each project? To answer, drag the appropriate version control systems to the correct projects. Each version control system 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.

Select and Place:

Version Control Systems

| Git |
| Perforce |
| Subversion |
| Team Foundation Version Control |

Answer Area

Project 1: [   ]
Project 2: [   ]
Project 3: [   ]
Project 4: [   ]

Correct Answer:

Version Control Systems

| Git |
| Perforce |
| Subversion |
| Team Foundation Version Control |

Answer Area

Project 1: Team Foundation Version Control
Project 2: Team Foundation Version Control
Project 3: Git
Project 4: Team Foundation Version Control

1 -> TFVS Refer : https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/control-access-team-foundation-version-control?view=azure-devops 2 -> TFVS Refer : https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/add-check-policies?view=azure-devops 3 -> Git Refer : https://docs.microsoft.com/en-us/azure/devops/repos/git/share-your-code-in-git-xcode?view=azure-devops 4 -> TFVS Refer :https://docs.microsoft.com/en-us/azure/devops/organizations/security/permissions?view=azure-devops#tfvc

Note: Perforce: Due to its multitenant nature, many groups can work on versioned files. The server tracks changes in a central database of MD5 hashes of file content, along with descriptive meta data and separately retains a master repository of file versions that can be verified through the hashes.

References: https://searchitoperations.techtarget.com/definition/Perforce-Software https://docs.microsoft.com/en-us/azure/devops/repos/git/share-your-code-in-git-xcode https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/overview

QUESTION 14

Your company implements an Agile development methodology. You plan to implement retrospectives at the end of each sprint. Which three questions should you include? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. Who performed well?

B. Who should have performed better?

C. What could have gone better?

D. What went well?

E. What should we try next?

Correct Answer: BCE

Sprint retrospective meetings The sprint retrospective meeting typically occurs on the last day of the sprint, after the sprint review meeting. In this meeting, your team explores its execution of Scrum and what might need tweaking. Based on discussions, your team might decide to change one or more processes to improve its own effectiveness, productivity, quality, and satisfaction. This meeting and the resulting improvements are critical to the agile principle of self-organization. Look to address these areas during your team sprint retrospectives:

1.

 Issues that affected your team\\'s general effectiveness, productivity, and quality.

2.

 Elements that impacted your team\\'s overall satisfaction and project flow.

3.

 What happened to cause incomplete backlog items

4.

 What actions will the team take to prevent these issues in the future

Reference: https://docs.microsoft.com/en-us/azure/devops/boards/sprints/best-practices-scrum

QUESTION 15

HOTSPOT

You have a virtual machine that runs Windows Server 2019 and is managed by using Desired State Configuration (DSC).

You have the following DSC configuration.

```
configuration WebConfiguration
{

    File WebsiteContent {
        Ensure             = 'Present'
        SourcePath         = 'c:\test\index.htm'
        DestinationPath    = 'c:\inetpub\wwwroot'
        DependsOn          = '[WindowsFeature]Web-Server'
    }


    WindowsFeature Web-Server
    {
        Ensure  = 'Present'
        Name    = 'Web-Server'
    }

}
```

You have the following Local Configuration Manager (LCM) configuration.

```
LocalConfigurationManager
{
    ConfigurationMode = "ApplyAndMonitor"
    RefreshFrequencyMins = 30
    ConfigurationModeFrequencyMins = 60
    RefreshMode = 'Push'
}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

![Pass2Lead](https://Pass2Lead.com)
Statements	Yes	No
The Index.htm file will be copied to the C:\Test folder before the Web-Server Windows feature is installed.	○	○
If manual changes are made to the configuration of the virtual machine, the configuration will reapply automatically.	○	○
If the Web-Server Windows feature is uninstalled from the virtual machine, the discrepancy will be reported in a log entry within 60 minutes.	○	○

Correct Answer:

Statements	Yes	No
The Index.htm file will be copied to the C:\Test folder before the Web-Server Windows feature is installed.	○	○
If manual changes are made to the configuration of the virtual machine, the configuration will reapply automatically.	○	○
If the Web-Server Windows feature is uninstalled from the virtual machine, the discrepancy will be reported in a log entry within 60 minutes.	○	○

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