vce trainer



AZ-400

AZ-400

AZ-400

Score: 800/1000

Version:

Time Limit: 120 Minutes

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Design a DevOps Strategy

(9 questions)

Question 1

HOTSPOT

Your company uses Team Foundation Server 2013 (TFS 2013).

You plan to migrate to Azure DevOps.

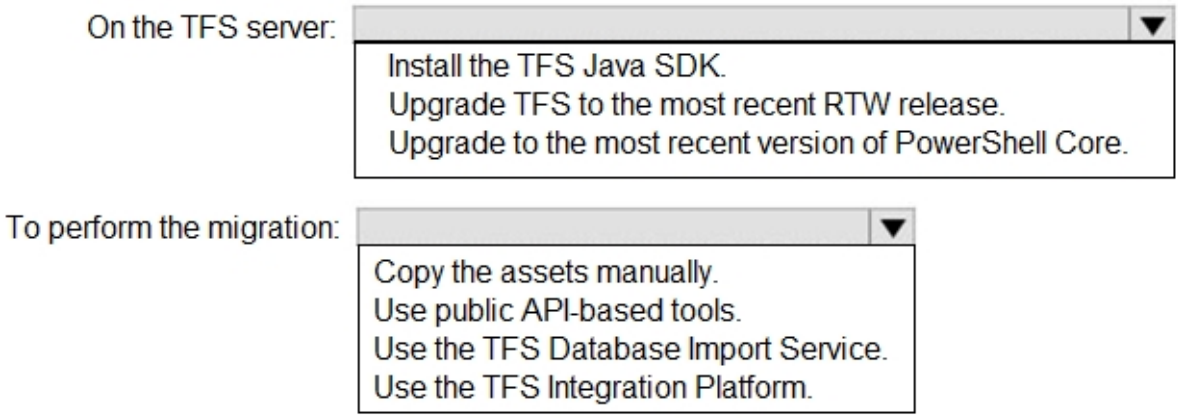
You need to recommend a migration strategy that meets the following requirements:

Preserves the dates of Team Foundation Version Control changesets
Preserves the changes dates of work items revisions
Minimizes migration effort
Migrates all TFS artifacts

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

NOTE: Each correct selection is worth one point.

Answer Area



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Question 2

You manage build pipelines and deployment pipelines by using Azure DevOps.

Your company has a team of 500 developers. New members are added continually to the team.

You need to automate the management of users and licenses whenever possible.

Which task must you perform manually?

- ☐ modifying group memberships
- ☐ adding users
- ☐ assigning entitlements
- ☐ procuring licenses

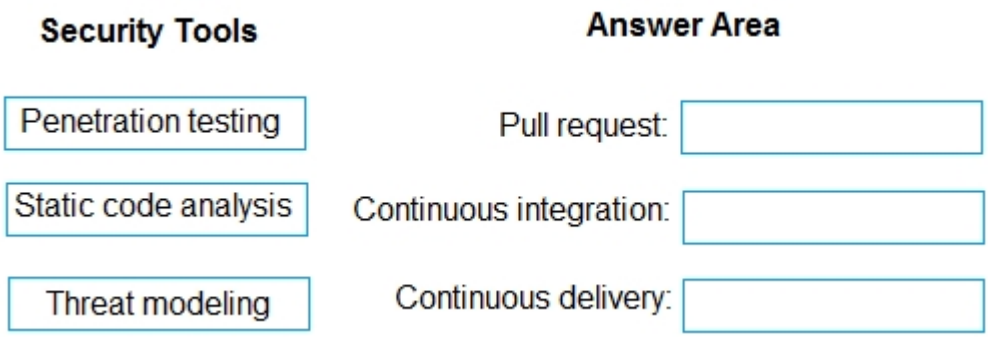
Question 3

DRAG DROP

You need to increase the security of your team's development process.

Which type of security tool should you recommend for each stage of the development process? To answer, drag the appropriate security tools to the correct targets. Each security tool 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.



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Question 4

You are developing a multi-tier application. The application will use Azure App Service web apps as the front end and an Azure SQL database as the back end. The application will use Azure functions to write some data to Azure Storage.

You need to send the Azure DevOps team an email message when the front end fails to return a status code of 200.

Which feature should you use?

- ☐ Service Map in Azure Log Analytics
- ☐ Availability tests in Azure Application Insights
- ☐ Profiler in Azure Application Insights
- ☐ Application Map in Azure Application Insights

Question 5

Your company plans to use an agile approach to software development.

You need to recommend an application to provide communication between members of the development team who work in locations around the world. The applications must meet the following requirements:

Provide the ability to isolate the members of different project teams into separate communication channels and to keep a history of the chats within those channels.
Be available on Windows 10, Mac OS, iOS, and Android operating systems.
Provide the ability to add external contractors and suppliers to projects.
Integrate directly with Azure DevOps.

What should you recommend?

- ☐ Microsoft Project
- ☐ Bamboo
- ☐ Microsoft Lync
- ☐ Microsoft Teams

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Question 6

You use Azure Artifacts to host NuGet packages that you create.

You need to make one of the packages available to anonymous users outside your organization. The solution must minimize the number of publication points.

What should you do?

- ☐ Change the feed URL of the package
- ☐ Create a new feed for the package
- ☐ Promote the package to a release view.
- ☐ Publish the package to a public NuGet repository.

Question 7

Your company has an on-premises Bitbucket Server that is used for Git-based source control. The server is protected by a firewall that blocks inbound Internet traffic.

You plan to use Azure DevOps to manage the build and release processes.

Which two components are required to integrate Azure DevOps and Bitbucket? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- ☐ a deployment group
- ☐ a Microsoft-hosted agent
- ☐ service hooks
- ☐ a self-hosted agent
- ☐ an External Git service connection

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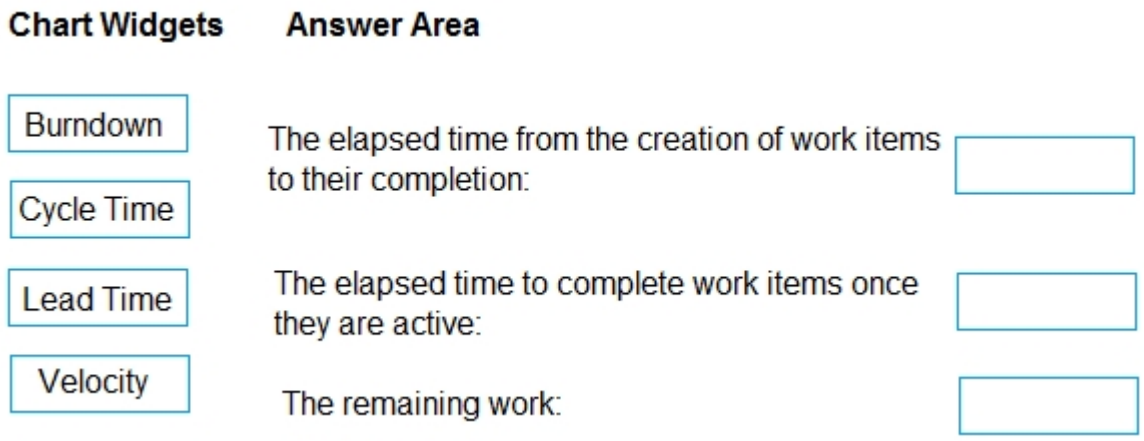
Question 8

DRAG DROP

You need to recommend project metrics for dashboards in Azure DevOps.

Which chart widgets should you recommend for each metric? To answer, drag the appropriate chart widgets to the correct metrics. Each chart widget 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.



Question 9

During a code review, you discover many quality issues. Many modules contain unused variables and empty catch blocks.

You need to recommend a solution to improve the quality of the code.

What should you recommend?

- ☐ In a Grunt build task, select Enabled from Control Options.
- ☐ In a Maven build task, select Run PMD.
- ☐ In a Xcode build task, select Use xcpretty from Advanced.
- ☐ In a Gradle build task, select Run Checkstyle.

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Implement DevOps Development Processes

Case Study (3 questions)

Case Study
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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.

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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.

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 application. 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

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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 10

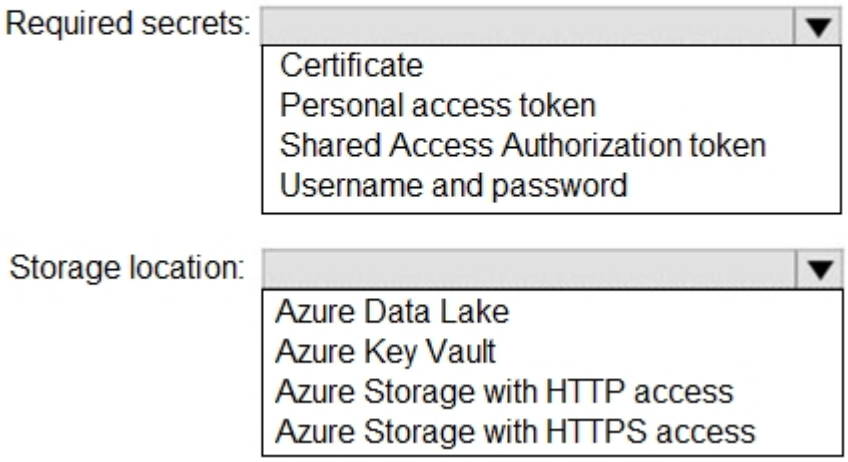
HOTSPOT

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.

Answer Area



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Question 11

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

- ☐ Change the value of the ConfigurationMode parameter.
- ☐ Replace the Register-AzureRmAutomationDscNode cmdlet with
- ☐ Register-AzureRmAutomationScheduledRunbook
- ☐ Add the AllowModuleOverwrite parameter.
- ☐ Add the DefaultProfile parameter.

Question 12

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 is worth one point.

Answer Area

```
MSAppCenter.start
( "{Your App Secret}",
  withServices:
)
```

[▼]
[MSAnalytics.self,
[MSDistribute.self,
[MSPush.self,

[▼]
MSAnalytics.self]
MSCrashes.self]
MSDistribute.self]

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Background

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Contoso plans to improve its IT development and operations processes by implementing Azure DevOps principles. Contoso has an Azure subscription and creates an Azure DevOps organization.

The Azure DevOps organization includes:

The Docker extension
A deployment pool named Pool7 that contains 10 Azure virtual machines that run Windows Server 2016

The Azure subscription contains an Azure Automation account.

Contoso plans to create projects in Azure DevOps as shown in the following table.

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Project name	Project details
Project 1	Project1 will provide support for incremental builds and third-party SDK components
Project 2	Project2 will use an automatic build policy. A small team of developers named Team2 will work independently on changes to the project. The Team2 members will not have permissions to Project2.
Project 3	Project3 will be integrated with SonarQube
Project 4	Project4 will provide support for a build pipeline that creates a Docker image and pushes the image to the Azure Container Registry. Project4 will use an existing Dockerfile.
Project 5	Project5 will contain a Git repository in Azure Reports and a continuous integration trigger that will initiate a build in response to any change except for changes within /folder1 of the repository.
Project 6	Project6 will provide support for build and deployment pipelines. Deployment will be allowed only if the number of current work items representing active software bugs is 0.
Project 7	Project7 will contain a target deployment group named Group7 that maps to Pool7. Project7 will use Azure Automation State Configuration to maintain the desired state of the computers in Group7.

Technical requirements

Contoso identifies the following technical requirements:

Implement build agents for Project1.
Whenever possible, use Azure resources.
Avoid using deprecated technologies.
Implement a code flow strategy for Project2 that will:
-Enable Team2 to submit pull requests for Project2.
-Enable Team2 to work independently on changes to a copy of Project2.
-Ensure that any intermediary changes performed by Team2 on a copy of Project2 will be subject to the same restrictions as the ones defined in the build policy of Project2.
Whenever possible implement automation and minimize administrative effort.
Implement Project3, Project5, Project6, and Project7 based on the planned changes
Implement Project4 and configure the project to push Docker images to Azure Container Registry.

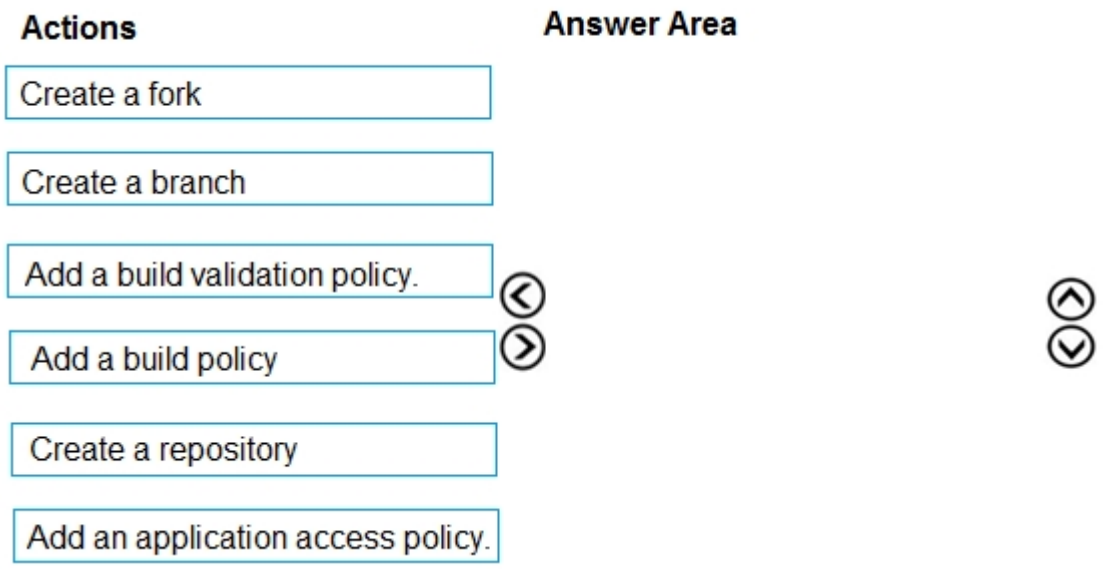
Question 13

DRAG DROP

You need to implement the code flow strategy for Project2 in Azure DevOps.

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.

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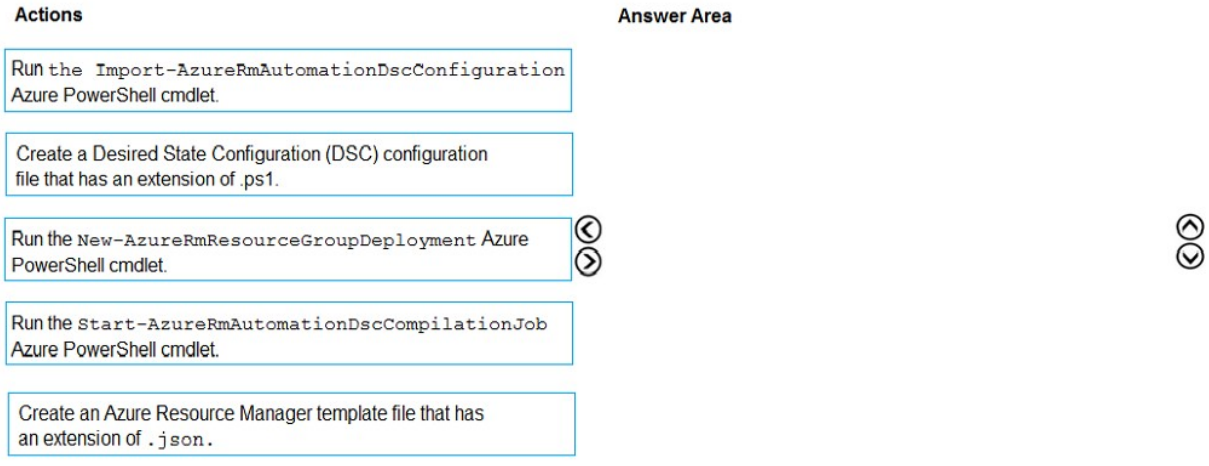


Question 14

DRAG DROP

You need to configure Azure Automation for the computers in Group7.

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.



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Question 15

You add the virtual machines as managed nodes in Azure Automation State Configuration.

You need to configure the computers in Group7.

What should you do?

- ☐ Modify the RefreshMode property of the Local Configuration Manager (LCM).
- ☐ Run the Register-AzureRmAutomationDscNode Azure Powershell cmdlet.
- ☐ Modify the ConfigurationMode property of the Local Configuration Manager (LCM)
- ☐ Install PowerShell Core.

(11 questions)

Question 16

Your company builds a multi-tier web application.

You use Azure DevOps and host the production application on Azure virtual machines.

Your team prepares an Azure Resource Manager template of the virtual machine that you will use to test new features.

You need to create a staging environment in Azure that meets the following requirements:

Minimizes the cost of Azure hosting
Provisions the virtual machines automatically
Uses the custom Azure Resource Manager template to provision the virtual machines

What should you do?

- ☐ In Azure Cloud Shell, run Azure CLI commands to create and delete the new virtual machines in a staging resource group.
- ☐ In Azure DevOps, configure new tasks in the release pipeline to deploy to Azure Cloud Services.
- ☐ From Azure Cloud Shell, run Azure PowerShell commands to create and delete the new virtual machines in a staging resource group.
- ☐ In Azure DevOps, configure new tasks in the release pipeline to create and delete the virtual machines in Azure DevTest Labs.

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Question 17

Your company uses cloud-hosted Jenkins for builds.

You need to ensure that Jenkins can retrieve source code from Azure Repos.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- ☐ Create a webhook in Jenkins.
- ☐ Add the Team Foundation Server (TFS) plug-in to Jenkins.
- ☐ Add a domain to your Jenkins account.
- ☐ Create a personal access token in your Azure DevOps account.
- ☐ Create a service hook in Azure DevOps.

Question 18

DRAG DROP

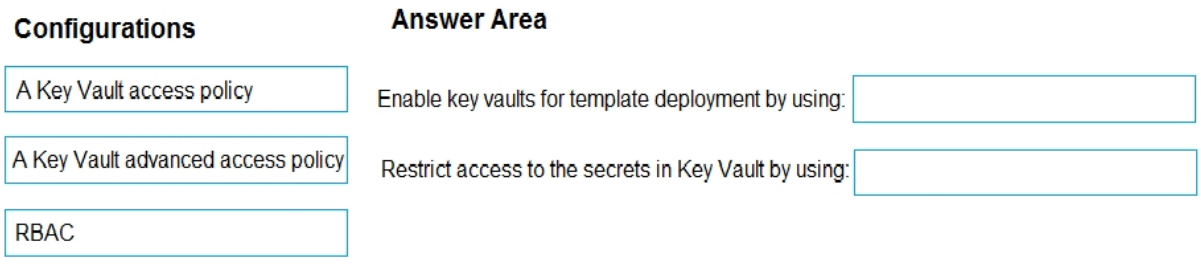
Your company has a project in Azure DevOps.

You plan to create a release pipeline that will deploy resources by using Azure Resource Manager templates. The templates will reference secrets stored in Azure Key Vault.

You need to recommend a solution for accessing the secrets stored in the key vault during deployments. The solution must use the principle of least privilege.

What should you include in the recommendation? To answer, drag the appropriate configurations to the correct targets. Each configuration 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.



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Question 19

You have a branch policy in a project in Azure DevOps. The policy requires that code always builds successfully.

You need to ensure that a specific user can always merge changes to the master branch, even if the code fails to compile. The solution must use the principle of least privilege.

What should you do?

- ☐ Add the user to the Build Administrators group.
- ☐ Add the user to the Project Administrators group.
- ☐ From the Security settings of the repository, modify the access control for the user.
- ☐ From the Security settings of the branch, modify the access control for the user.

Question 20

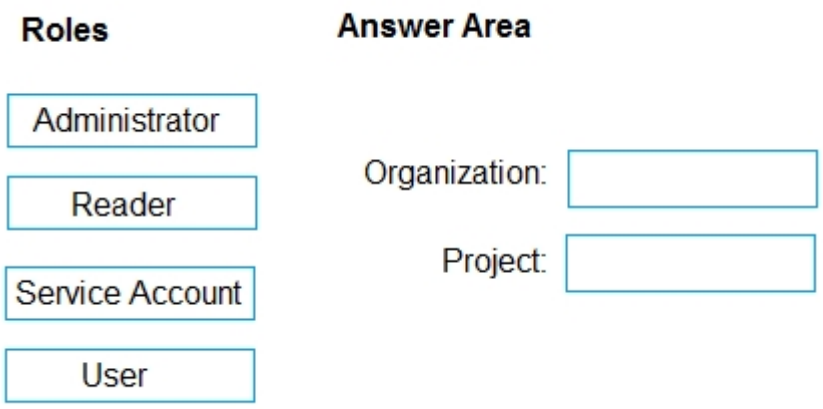
DRAG DROP

You need to configure access to Azure DevOps agent pools to meet the following requirements:

Use a project agent pool when authoring build or release pipelines.
View the agent pool and agents of the organization.
Use the principle of least privilege.

Which role memberships are required for the Azure DevOps organization and the project? To answer, drag the appropriate role memberships to the correct targets. Each role membership 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.



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Question 21

Your company uses a Git repository in Azure Repos to manage the source code of a web application. The master branch is protected from direct updates. Developers work on new features in the topic branches.

Because of the high volume of requested features, it is difficult to follow the history of the changes to the master branch.

You need to enforce a pull request merge strategy. The strategy must meet the following requirements:

Consolidate commit histories.
Merge the changes into a single commit.

Which merge strategy should you use in the branch policy?

- ☐ squash merge
- ☐ fast-forward merge
- ☐ Git fetch
- ☐ no-fast-forward merge

Question 22

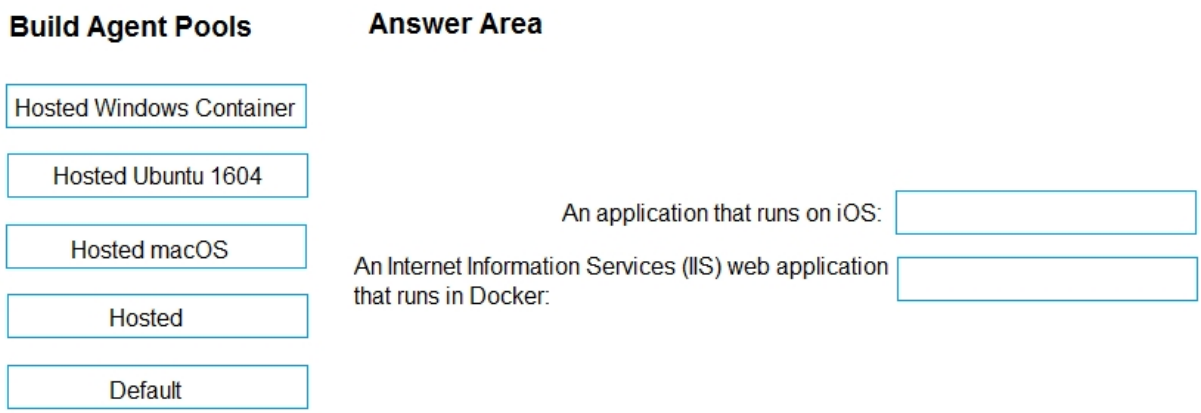
DRAG DROP

You are configuring Azure DevOps build pipelines.

You plan to use hosted build agents.

Which build agent pool should you use to compile each application type? To answer, drag the appropriate build agent pools to the correct application types. Each build agent pool 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.



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Question 23

DRAG DROP

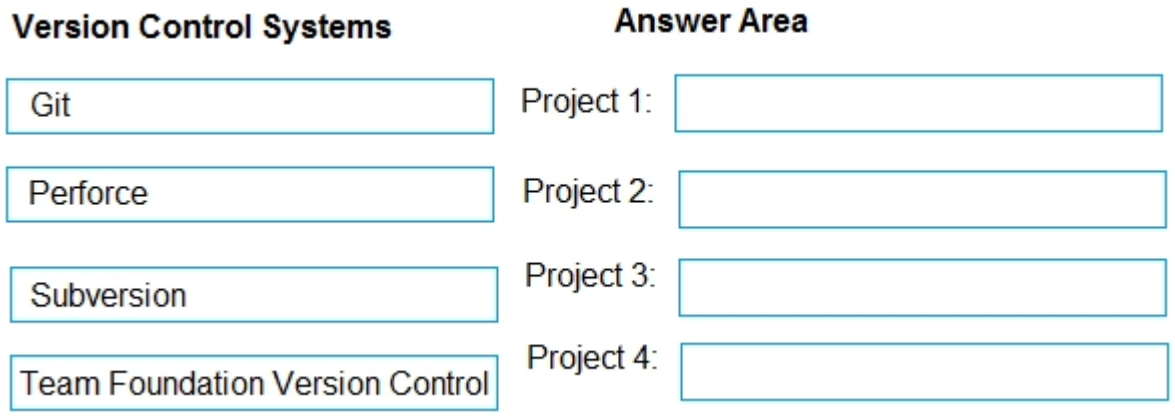
Your company has four projects. The version control requirements for each project are shown in the following table.

Project	Requirement
Project 1	Project leads must be able to restrict access to individual files and folders in the repository.
Project 2	The version control system must enforce the following rules before merging any changes to the main branch: • Changes must be reviewed by at least two project members. • Changes must be associated to at least one work team.
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.

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.

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Question 24

HOTSPOT

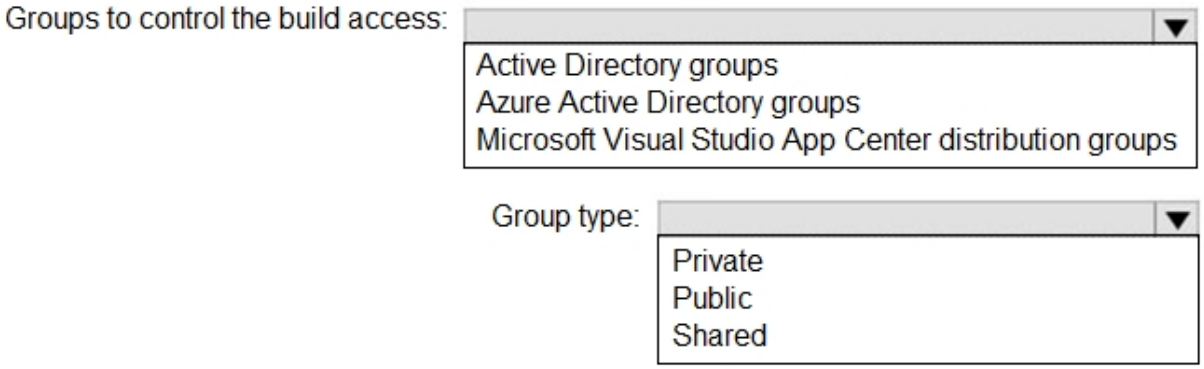
Your company is creating a suite of three mobile applications.

You need to control access to the application builds. The solution must be managed at the organization level.

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

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Answer Area



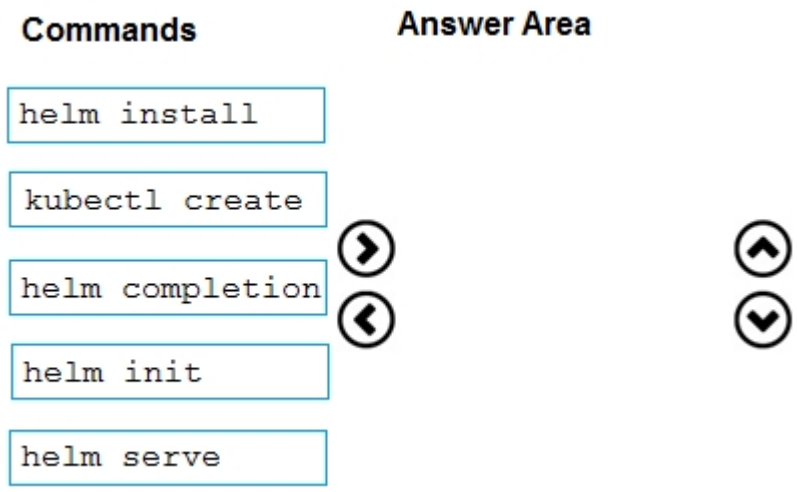
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Question 25

DRAG DROP

You need to recommend a solution for deploying charts by using Helm and Tiller to Azure Kubernetes Service (AKS) in an RBAC-enabled cluster.

Which three commands should you recommend be run in sequence? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.



Question 26

You have an Azure Resource Manager template that deploys a multi-tier application.

You need to prevent the user who performs the deployment from viewing the account credentials and connection strings used by the application.

What should you use?

- ☐ Azure Key Vault
- ☐ a Web.config file
- ☐ an Appsettings.json file
- ☐ an Azure Storage table
- ☐ an Azure Resource Manager parameter file

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Implement Continuous Integration

Case Study (2 questions)

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Whenever possible implement automation and minimize administrative effort.
Implement Project3, Project5, Project6, and Project7 based on the planned changes
Implement Project4 and configure the project to push Docker images to Azure Container Registry.

Question 27

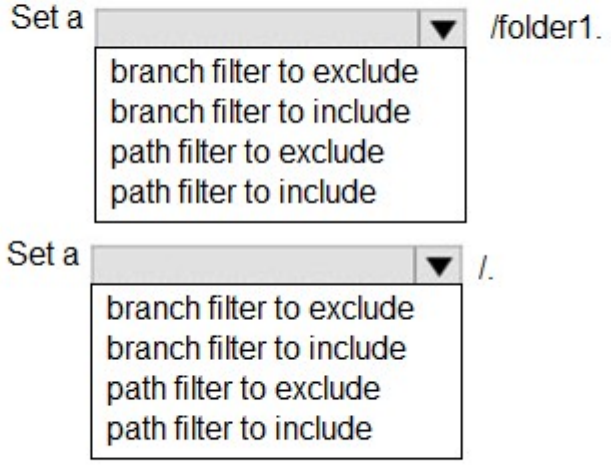
HOTSPOT

How should you configure the filters for the Project5 trigger? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

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Answer Area



@

Question 28

In Azure DevOps, you create Project3.

You need to meet the requirements of the project.

What should you do first?

- ☐ From Azure DevOps, modify the build definition.
- ☐ From SonarQube, obtain an authentication token.
- ☐ From Azure DevOps, create a service endpoint.
- ☐ From SonarQube, create a project.

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(7 questions)

Question 29

You are developing an open source solution that uses a GitHub repository.

You create a new public project in Azure DevOps.

You plan to use Azure Pipelines for continuous build. The solution will use the GitHub Checks API.

Which authentication type should you use?

- ☐ OAuth
- ☐ GitHub App
- ☐ a personal access token
- ☐ SAML

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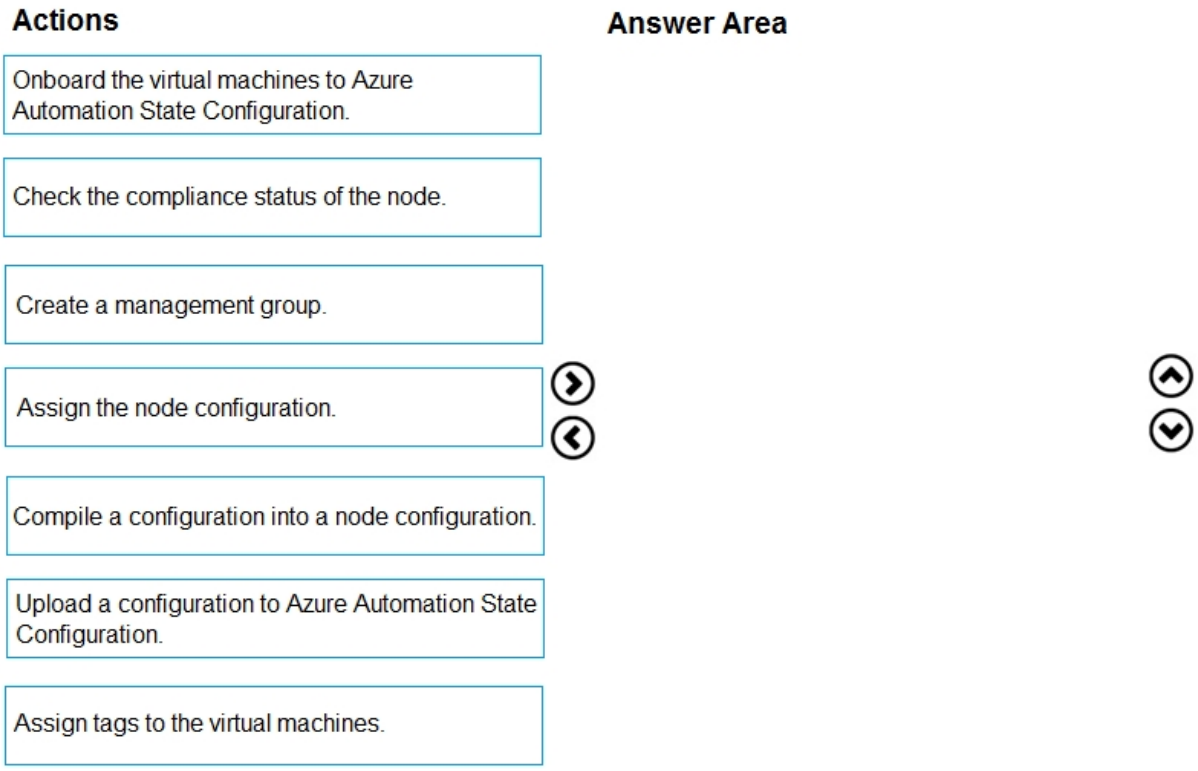
Question 30

DRAG DROP

You need to use Azure Automation State Configuration to manage the ongoing consistency of virtual machine configurations.

Which five 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.



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Question 31

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.

Your company has a project in Azure DevOps for a new web application.

You need to ensure that when code is checked in, a build runs automatically.

Solution: From the Pre-deployment conditions settings of the release pipeline, you select Batch changes while a build is in progress.

Does this meet the goal?

- ☐ Yes
- ☐ No

Question 32

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.

Your company has a project in Azure DevOps for a new web application.

You need to ensure that when code is checked in, a build runs automatically.

Solution: From the Continuous deployment trigger settings of the release pipeline, you enable the Pull request trigger setting.

Does this meet the goal?

- ☐ Yes
- ☐ No

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Question 33

You have 50 Node.js-based projects that you scan by using WhiteSource. Each project includes Package.json, Package-lock.json, and Npm-shrinkwrap.json files.

You need to minimize the number of libraries reports by WhiteSource to only the libraries that you explicitly reference.

What should you do?

- ☐ Configure the File System Agent plug-in.
- ☐ Add a devDependencies section to Package-lock.json.
- ☐ Configure the Artifactory plug-in.
- ☐ Delete Package-lock.json.

Question 34

Your company uses Azure DevOps for the build pipelines and deployment pipelines of Java-based projects.

You need to recommend a strategy for managing technical debt.

Which two actions should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- ☐ Configure post-deployment approvals in the deployment pipeline.
- ☐ Configure pre-deployment approvals in the deployment pipeline.
- ☐ Integrate Azure DevOps and SonarQube.
- ☐ Integrate Azure DevOps and Azure DevTest Labs.

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Question 35

You plan to create an image that will contain a .NET Core application.

You have a Dockerfile file that contains the following code. (Line numbers are included for reference only.)

```
01 FROM microsoft/dotnet:2.1-sdk
02 COPY ./
03 RUN dotnet publish -c Release -o out
04 FROM microsoft/dotnet:2.1-sdk
05 COPY -from=0 /out /
06 WORKDIR /
07 ENTRYPOINT ["dotnet", "appl.dll"]
```

You need to ensure that the image is as small as possible when the image is built.

Which line should you modify in the file?

- ☐ 1
- ☐ 3
- ☐ 4
- ☐ 7

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