AZ-400Q&As

Designing and Implementing Microsoft DevOps Solutions

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QUESTION 1

HOTSPOT

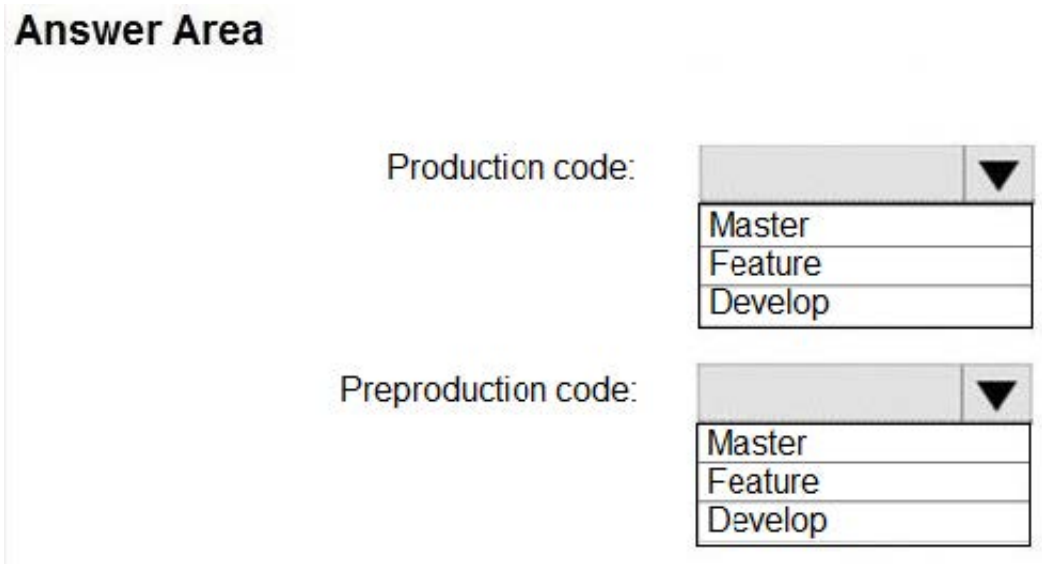
Your company uses a Git source-code repository.

You plan to implement GitFlow as a workflow strategy. You need to identify which branch types are used for production code and preproduction code in the strategy.

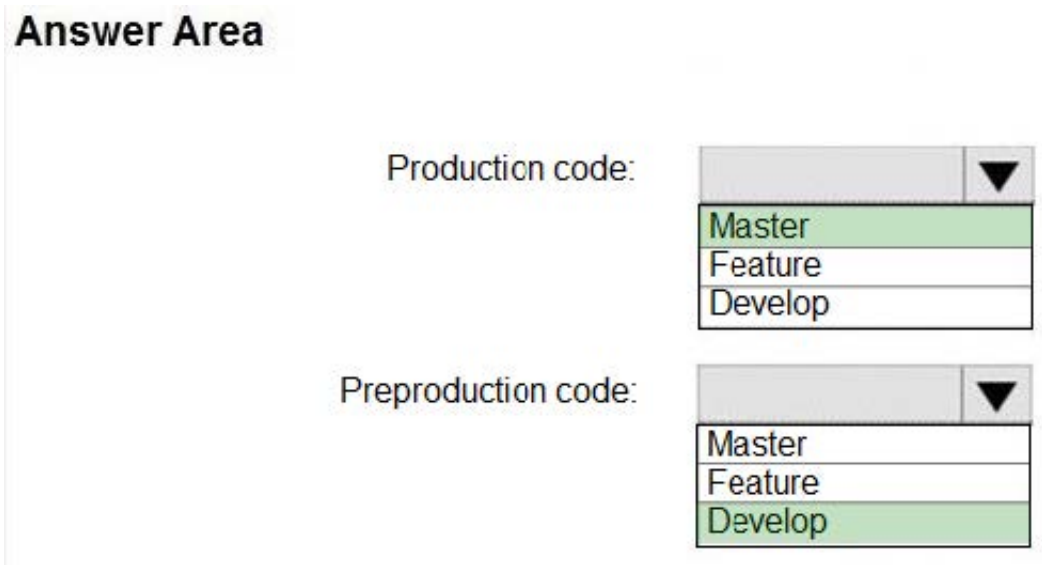
Which branch type should you identify for each code type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: Master

The Master branch contains production code. All development code is merged into master in sometime.

Box 2: Develop

The Develop branch contains pre-production code. When the features are finished then they are merged into develop.

Reference:

https://medium.com/@patrickporto/4-branching-workflows-for-git-30d0aaee7bf

QUESTION 2

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 need to recommend an integration strategy for the build process of a Java application. The solution must meet the following requirements:

1.

The builds must access an on-premises dependency management system.

2.

The build outputs must be stored as Server artifacts in Azure DevOps.

3.

The source code must be stored in a Git repository in Azure DevOps.

Solution: Configure an Octopus Tentacle on an on-premises machine. Use the Package Application task in the build pipeline.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

References: https://octopus.com/docs/deployment-examples/package-deployments
https://explore.emtecinc.com/blog/octopus-for-automated-deployment-in-devops-models

QUESTION 3

HOTSPOT

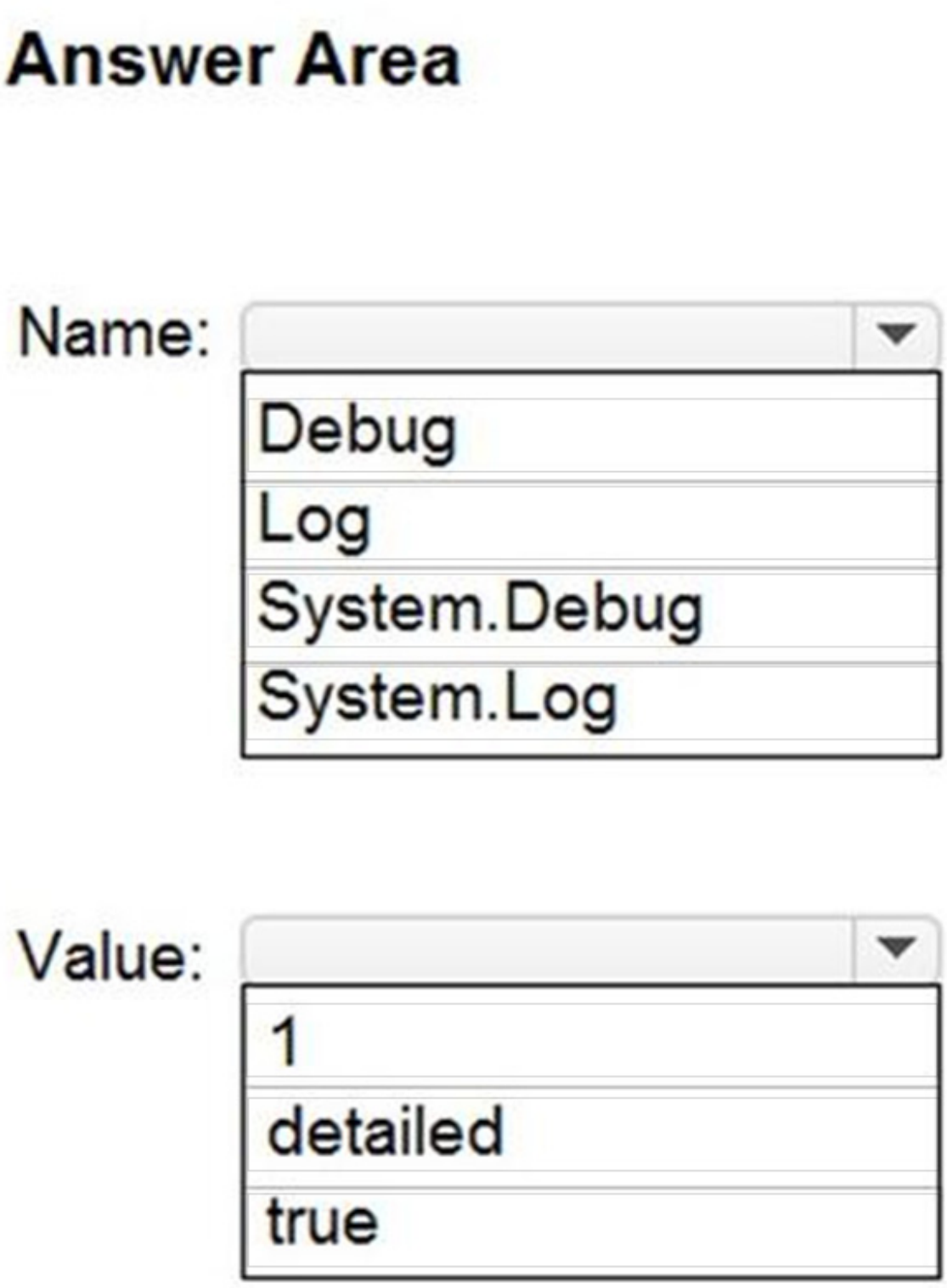
You have a project in Azure DevOps that contains a Continuous Integration/Continuous Deployment (CI/CD) pipeline.

You need to enable detailed logging by defining a pipeline variable.

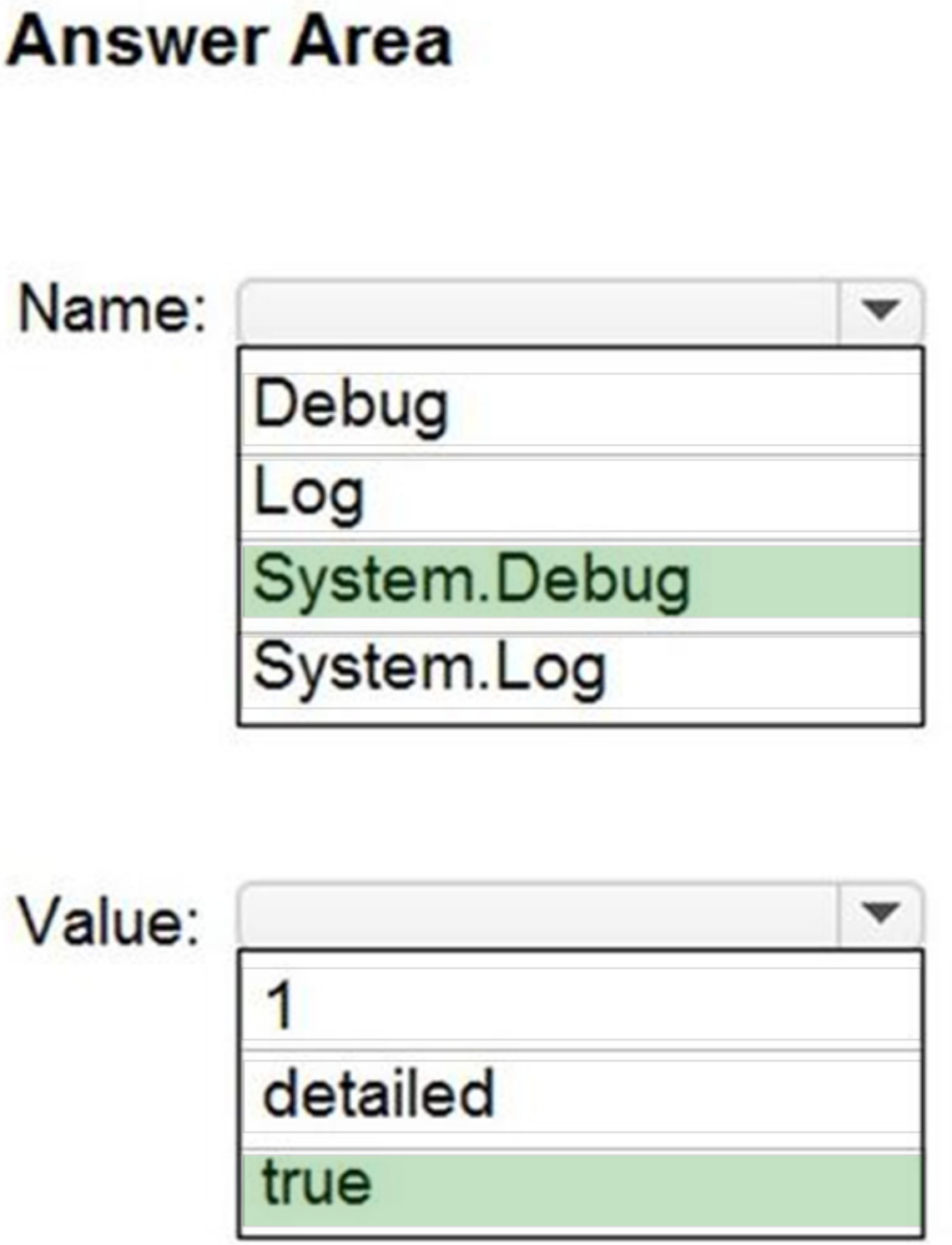
How should you configure the variable? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Explanation:

Box 1: system.debug To configure verbose logs for all runs, you can add a variable named system.debug and set its value to true. Note: Verbose logging is the practice of recording to a persistent medium as much information as you

possibly can about events that occur while the software runs. Box 2: true Reference: https://docs.microsoft.com/en-us/azure/devops/pipelines/troubleshooting/review-logs

QUESTION 4

SIMULATION

You need to create a virtual machine template in an Azure DevTest Labs environment named az400-9940427-dtl1. The template must be based on Windows Server 2016 Datacenter. Virtual machines created from the template must include the selenium tool and the Google Chrome browser.

To complete this task, sign in to the Microsoft Azure portal.

Correct Answer: See solution below.

1.

Open Microsoft Azure Portal

2.

Select All Services, and then select DevTest Labs in the DEVOPS section.

3.

From the list of labs, select the az400-9940427-dtl1 lab

4.

On the home page for your lab, select + Add on the toolbar.

5.

Select the Windows Server 2016 Datacenter base image for the VM.

6.

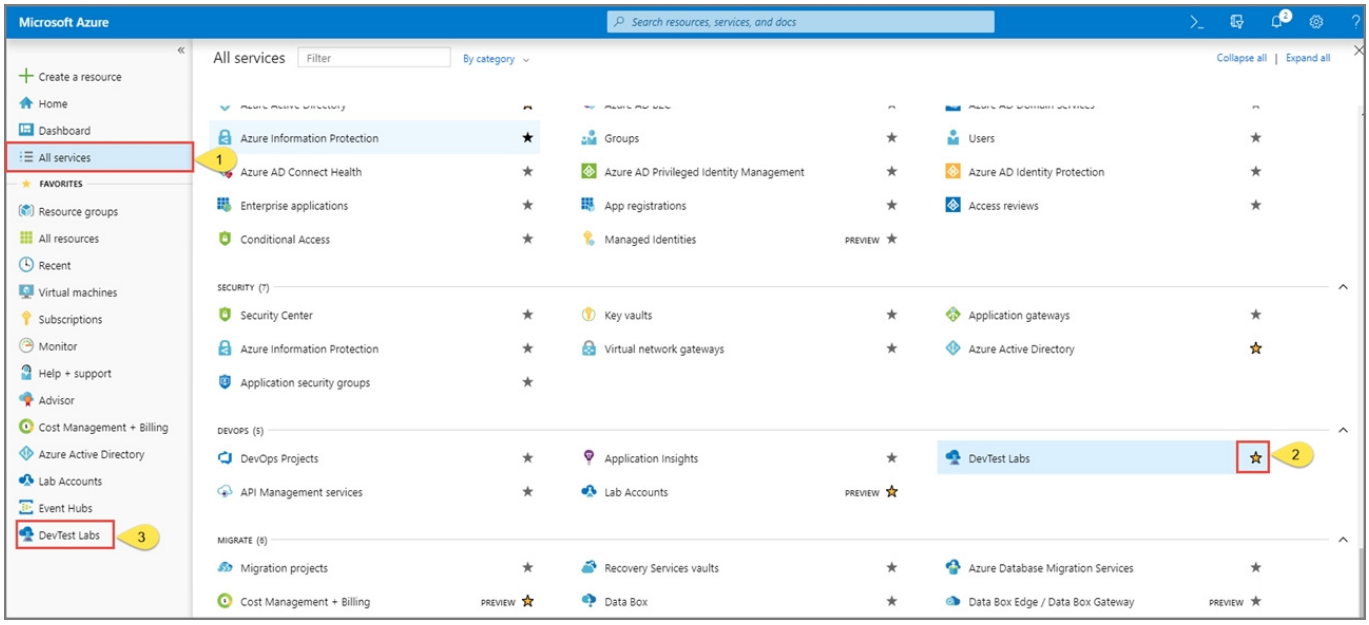
Select automation options at the bottom of the page above the Submit button.

7.

You see the Azure Resource Manager template for creating the virtual machine.

8.

The JSON segment in the resources section has the definition for the image type you selected earlier.



References: https://docs.microsoft.com/bs-cyrl-ba/azure//lab-services/devtest-lab-vm-powershell

QUESTION 5

HOTSPOT

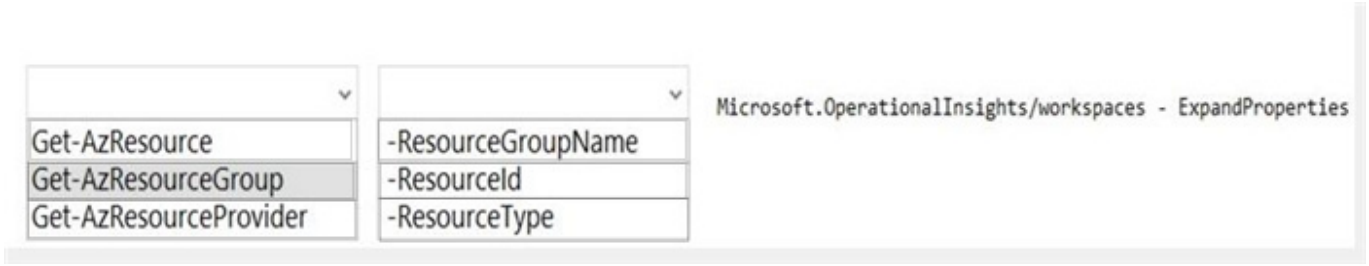
You are using PowerShell to administer Azure Log Analytics workspaces.

You need to list the available workspaces and their properties.

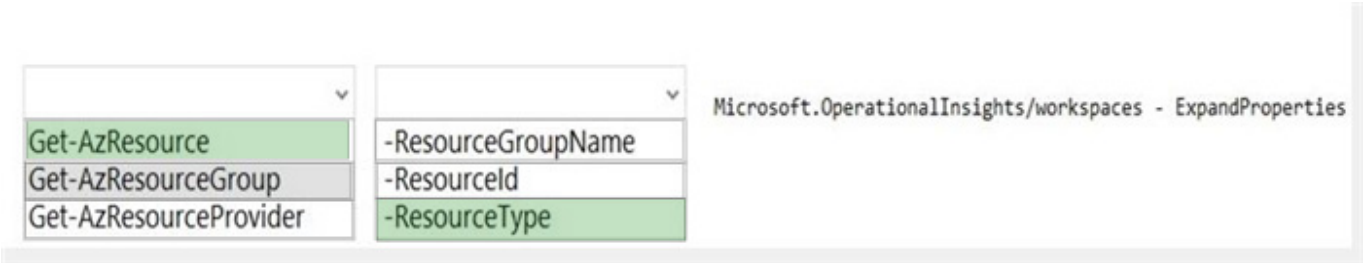
How should you complete the command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: Get-AzResource Use the following command to examine the access control mode for all workspaces in the subscription: PowerShell Get-AzResource -ResourceType Microsoft.OperationalInsights/workspaces -ExpandProperties | foreach {$_.Name + ": " + $_.Properties.features.enableLogAccessUsingOnlyResourcePermissions

Box 2: -ResourceType Reference: https://docs.microsoft.com/en-us/azure/azure-monitor/logs/manage-access

---

QUESTION 6

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?

A. Configure the File System Agent plug-in.

B. Add a devDependencies section to Package-lock.json.

C. Configure the Artifactory plug-in.

D. Delete Package-lock.json.

Correct Answer: B

Separate Your Dependencies

Within your package.json file be sure you split out your npm dependencies between devDependencies and (production) dependencies. The key part is that you must then make use of the --production flag when installing the npm packages.

The --production flag will exclude all packages defined in the devDependencies section.

References: https://blogs.msdn.microsoft.com/visualstudioalmrangers/2017/06/08/manage-your-open-source-usage-and-security-as-reported-by-your-cicd-pipeline/

QUESTION 7

DRAG DROP

You have an Azure Repos repository named repo1.

You need to clone repo1. The solution must clone only a directory named src/web.

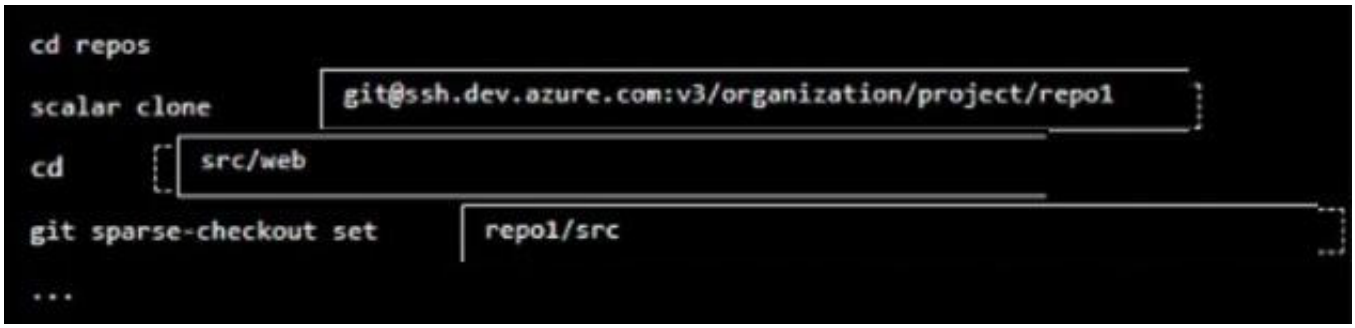
How should you complete the script? To answer, drag the appropriate values to the correct targets, Each value may be

used once, more than once, or not at all. You may need to drag the spirt bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point

Select and Place:

Correct Answer:



QUESTION 8

DRAG DROP

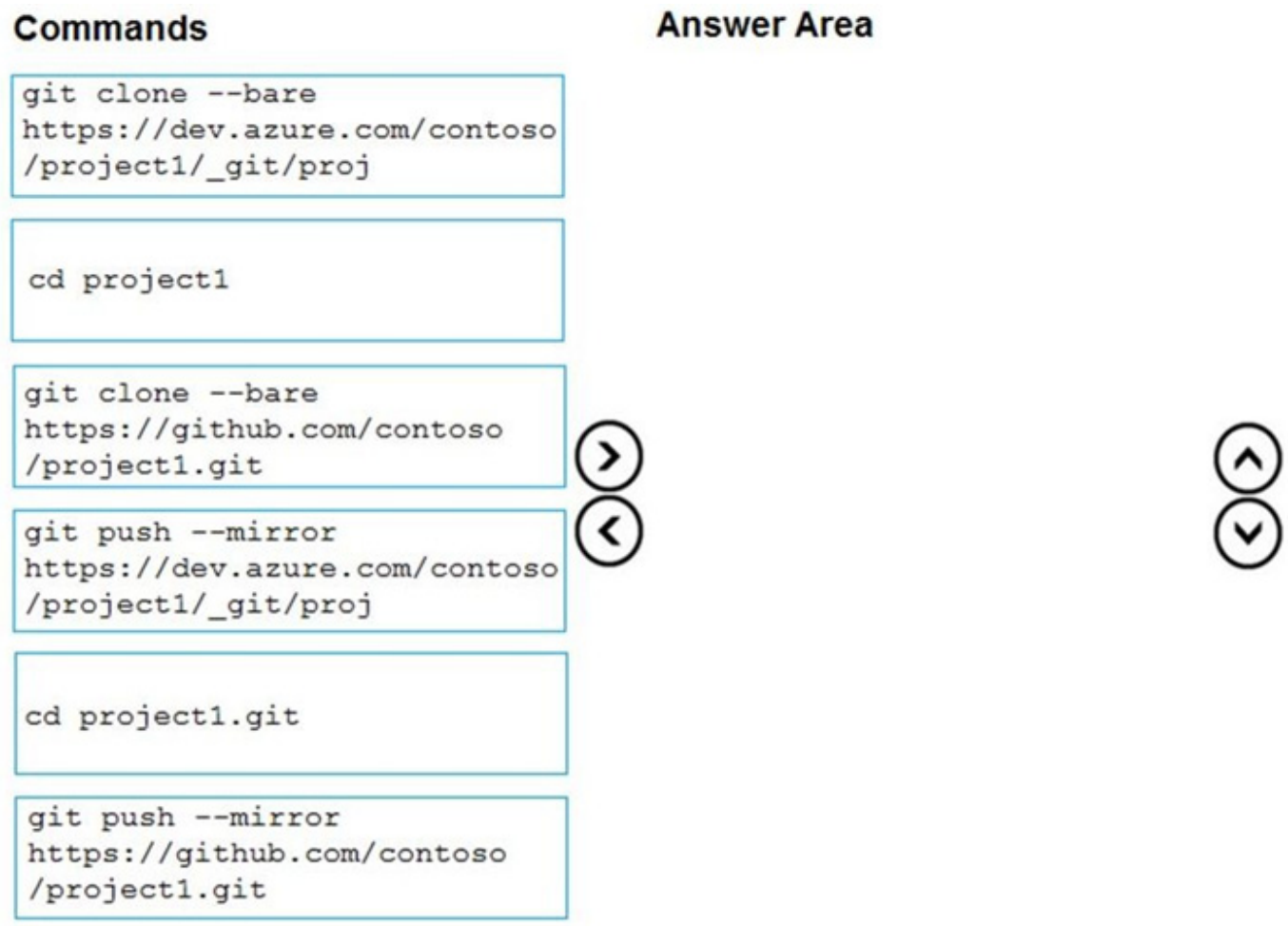
You have the repositories shown in the following table.

Type	URL
Azure Repos	https://dev.azure.com/contoso/project1/_git/project1.git
GitHub	https://github.com/contoso/project.git

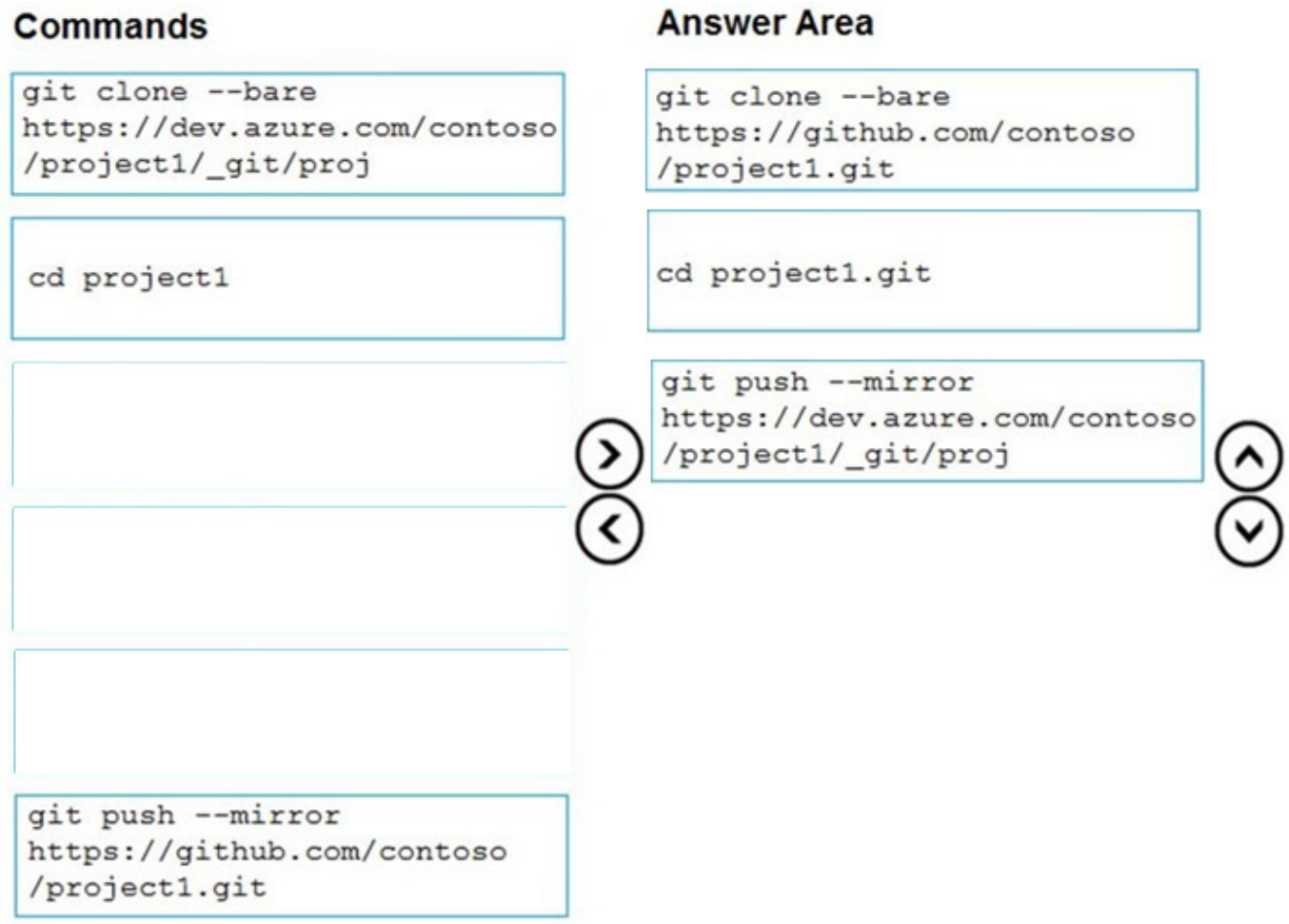
You need to migrate the contents of the GitHub repository to the Azure Repos repository. The solution must ensure that the Azure Repos repository only contains branches and history from the GitHub repository. Which three commands should you run in sequence? To answer, move the appropriate commands from the list of commands to the answer

area and arrange them in the correct order.

Select and Place:



Correct Answer:



QUESTION 9

Your company develops an application named App1 that is deployed in production.

As part of an application update, a new service is being added to App1. The new service requires access to an application named App2 that is currently in development.

You need to ensure that you can deploy the update to App1 before App2 becomes available. You must be able to enable the service in App1 once App2 is deployed.

What should you do?

A. Implement a feature flag.

B. Create a fork in the build.

C. Create a branch in the build.

D. Implement a branch policy.

Correct Answer: A

Feature flags support a customer-first DevOps mindset, to enable (expose) and disable (hide) features in a solution,

even before they are complete and ready for release. Incorrect Answers:

C: Branch policies are an important part of the Git workflow and enable you to:

1.

Isolate work in progress from the completed work in your master branch

2.

Guarantee changes build before they get to master

Reference: https://docs.microsoft.com/en-us/azure/devops/migrate/phase-features-with-feature-flags

QUESTION 10

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 action should you include in the recommendation?

A. Configure post-deployment approvals in the deployment pipeline.

B. Integrate Azure DevOps and SonarQube.

C. Integrate Azure DevOps and Azure DevTest Labs.

Correct Answer: B

You can manage technical debt with SonarQube and Azure DevOps. Note: Technical debt is the set of problems in a development effort that make forward progress on customer value inefficient. Technical debt saps productivity by making code hard to understand, fragile, time-consuming to change, difficult to validate, and creates unplanned work that blocks progress. Unless they are managed, technical debt can accumulate and hurt the overall quality of the software and the productivity of the development team in the long term SonarQube an open source platform for continuous inspection of code quality to perform automatic reviews with static analysis of code to: Detect Bugs Code Smells Security Vulnerabilities Centralize Quality What\\'s covered in this lab

Reference: https://azuredevopslabs.com/labs/vstsextend/sonarqube/

QUESTION 11

Your company has an Azure DevOps project, which includes a build pipeline that makes use of roughly fifty open source libraries.

You have been tasked with making sure that you are able to scan project for common security weaknesses in the open source libraries.

Which of the following actions should you take?

A. You should create a build task and use the WhiteSource Bolt service.

B. You should create a deployment task and use the WhiteSource Bolt service.

C. You should create a build task and use the Chef service.

D. You should create a deployment task and use the Chef service.

Correct Answer: A

Reference: https://www.azuredevopslabs.com/labs/vstsextend/whitesource/

QUESTION 12

You configure an Azure Application Insights availability test.

You need to notify the customer services department at your company by email when availability is degraded.

You create an Azure logic app that will handle the email and follow up actions.

Which type of trigger should you use to invoke the logic app?

A. an HTTPWebhook trigger

B. an HTTP trigger

C. a Request trigger

D. an ApiConnection trigger

Correct Answer: C

Reference: https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-webhooks

QUESTION 13

DRAG DROP

You have a project in Azure DevOps.

You need to configure a dashboard. The solution must include the following metrics:

1.

Bottlenecks in the software development process

2.

A burndown chart for the work in a single iteration

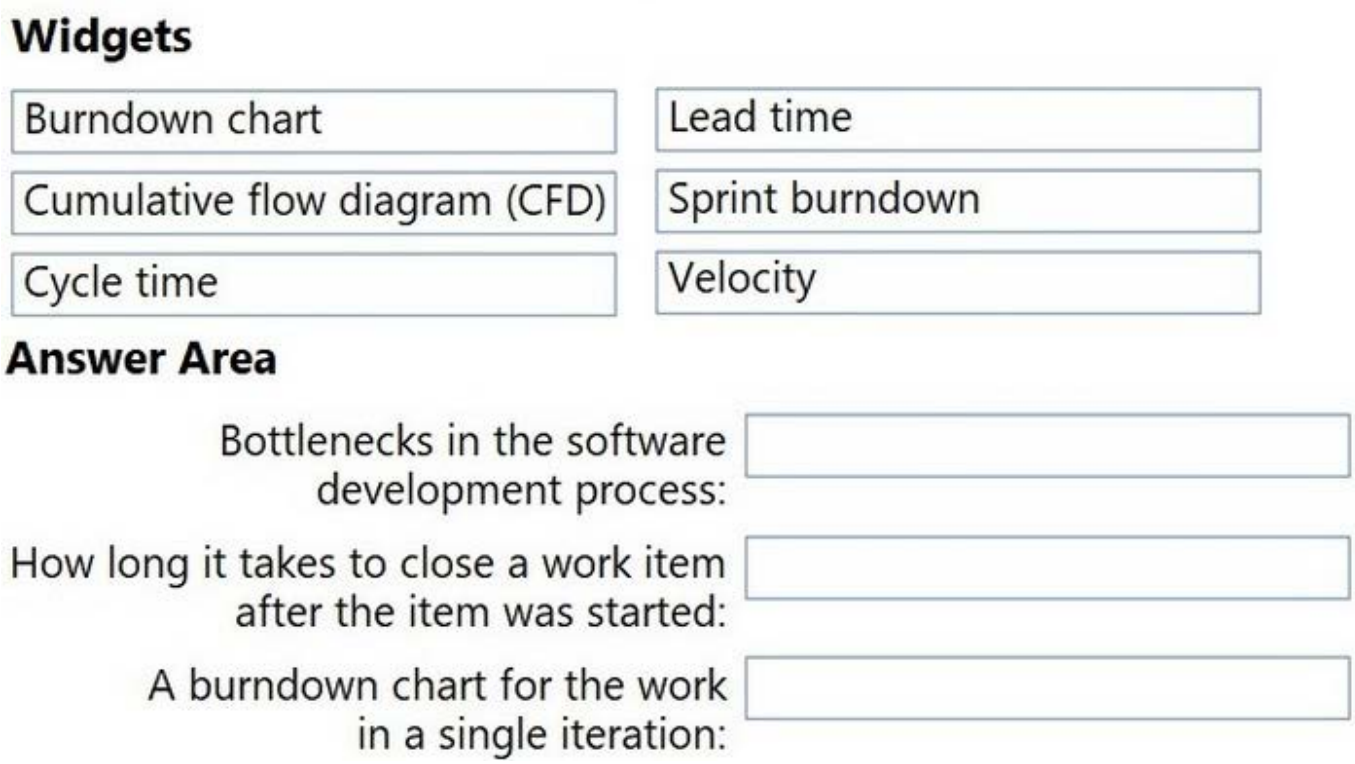
3.

How long it takes to close a work item after the item was started

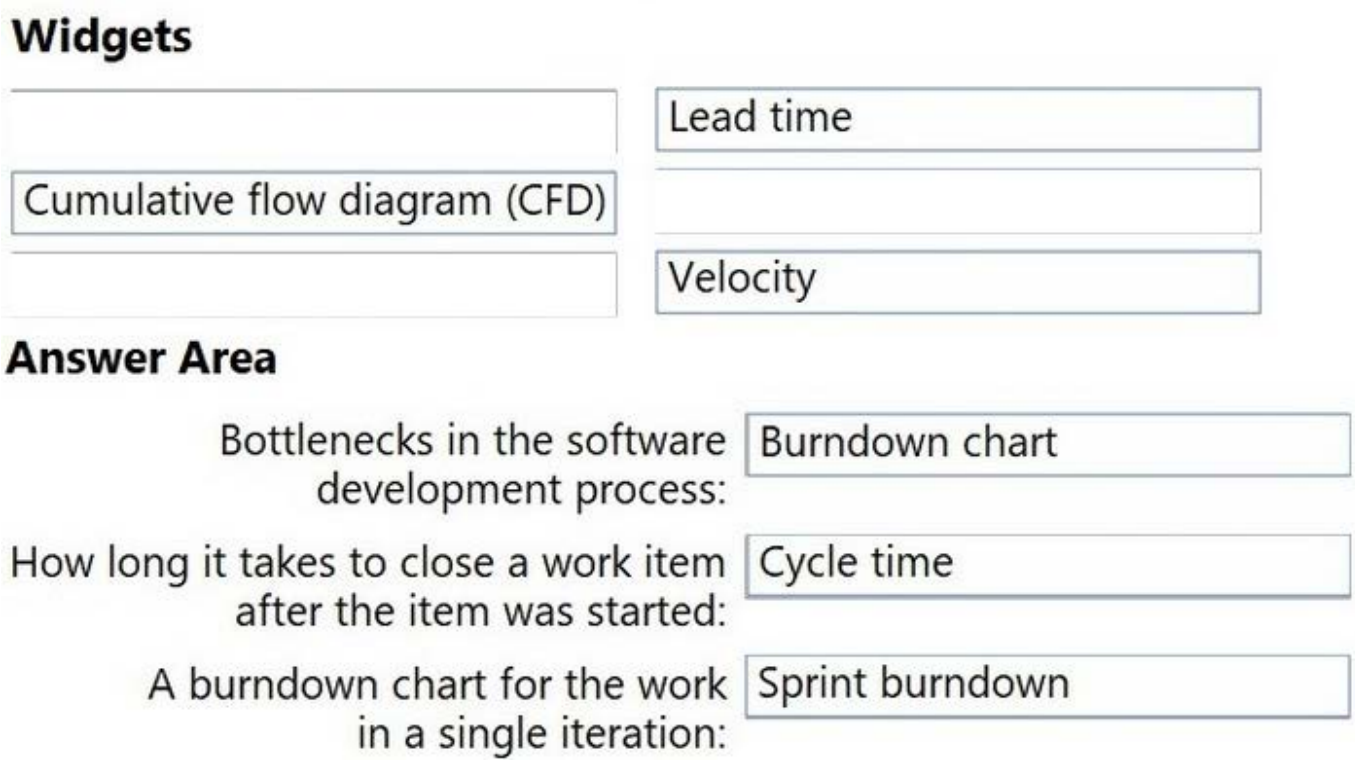
Which type of widget should you use for each metric? To answer, drag the appropriate widget types to the correct metrics. Each widget type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



Box 1: Burndown chart

Bottlenecks in the software development process

Interpret a burndown or burnup chart

Your team can get immediate insight as to their progress and learn about their rhythm and behavior. Most burndown lines aren\\'t straight lines. The team never moves at exactly one fixed velocity. Scope increases occur over time. For

example, if your projected completion date moves, you may want to ask one of these questions:

Are we adding too much scope?

Is the average burn rate changing, and if so, why?

Burndown charts also help teams understand risks to their release. If the projected end date exceeds the release target date, teams may need to reduce scope or lengthen the project. Burndown can also indicate that progress is greater than

expected, providing the uncommon, but wonderful option of adding scope.

As the following diagram shows, charts based on the burndown/burnup widgets provide many calculated elements.

Box 2: Cycle time

How long it takes to close a work item after the item was started

Cycle time measures the time it takes for your team to complete work items once they begin actively working on them.

Box 3: Sprint burndown

A burndown chart for the work in a single iteration

The definition of a sprint is a dedicated period of time in which a set amount of work will be completed on a project. It\\'s part of the agile methodology, and an Agile project will be broken down into a number of sprints, each sprint taking the

project closer to completion.

The aim of a sprint is to make progress against the product goal. So the scrum team determines and agrees to a consistent duration for completing work. Most sprints range from two to four weeks — but should not be longer than one month.

Incorrect:

*

Velocity

Velocity metrics provide useful information, so teams can plan and forecast sprints and determine how well they estimate and meet planned commitments. You can get an indication of how much work a team can complete during a sprint

based on either a count of work items completed or the sum of estimates made for effort (product backlog items), story points (user stories), or size (requirements). Use velocity as an aid to determine team capacity and don\\'t confuse it with

key performance indicators.

*

Cumulative flow diagram (CFD)

You use cumulative flow diagrams (CFD) to monitor the flow of work through a system. There are two CFD charts: the in-context report you can view from a team backlog or Kanban board and the CFD widget you can add to a dashboard.

CFDs help teams monitor the count of work items as they progressively move through various workflow states. These diagrams can show the flow of epics, features, user stories, issues, product backlog items, or requirements, depending on the process selected for your project

*

Lead time

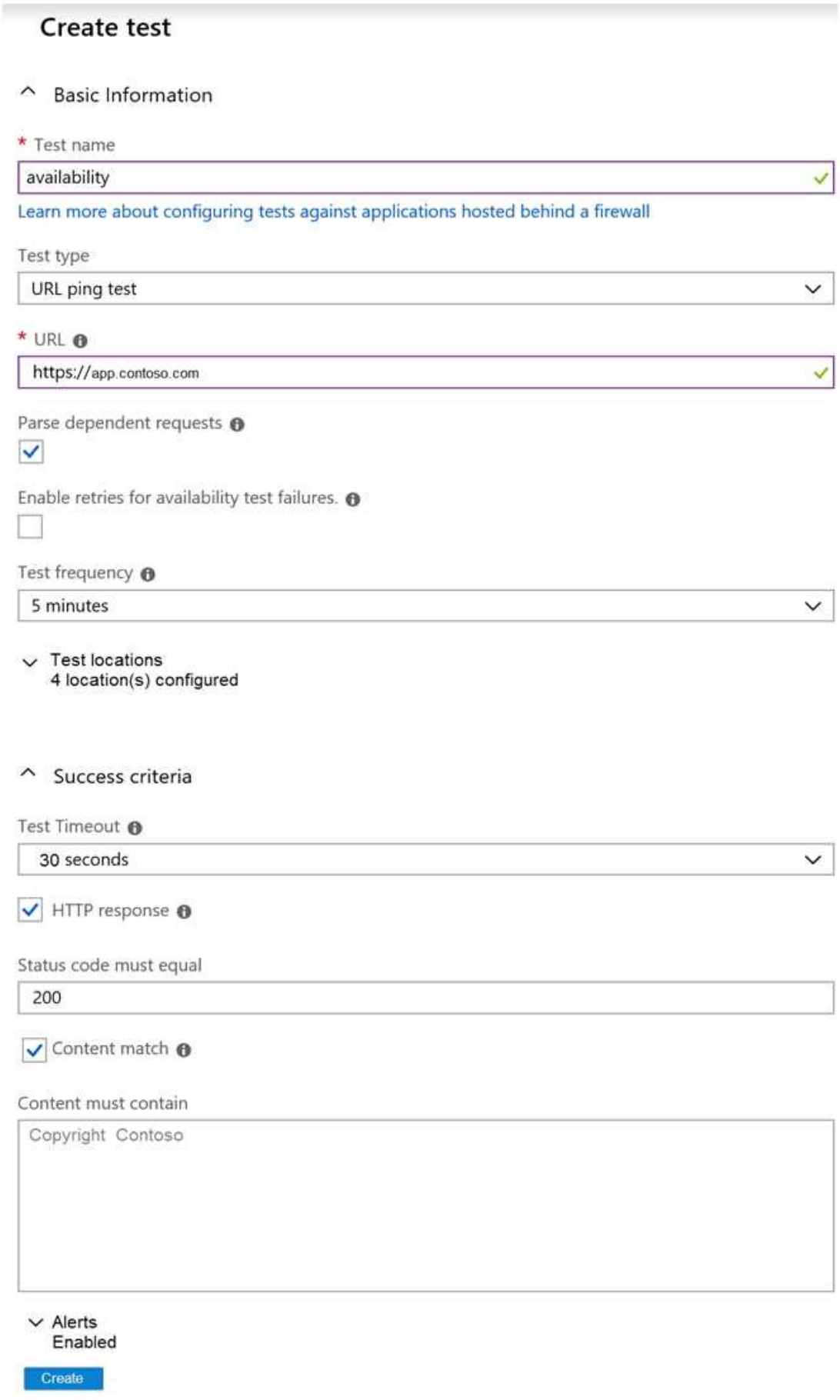
Lead time measures the total time elapsed from the creation of work items to their completion.

Reference: https://learn.microsoft.com/en-us/azure/devops/report/dashboards/cycle-time-and-lead-time https://business.adobe.com/blog/basics/sprints . https://learn.microsoft.com/en-us/azure/devops/report/dashboards/configure-sprint-burndown

QUESTION 14

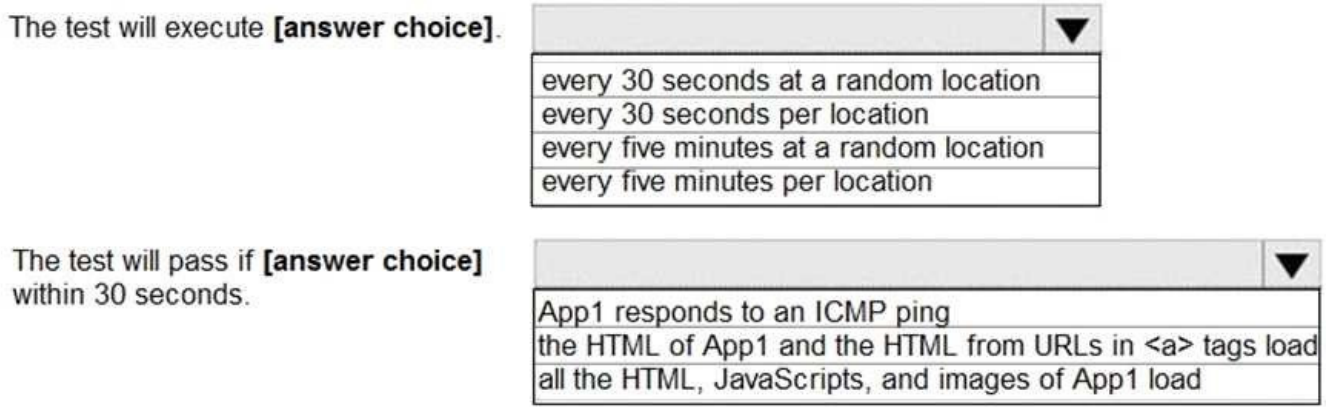
HOTSPOT

You have an application named App1 that has a custom domain of app.contoso.com. You create a test in Azure Application Insights as shown in the following exhibit.

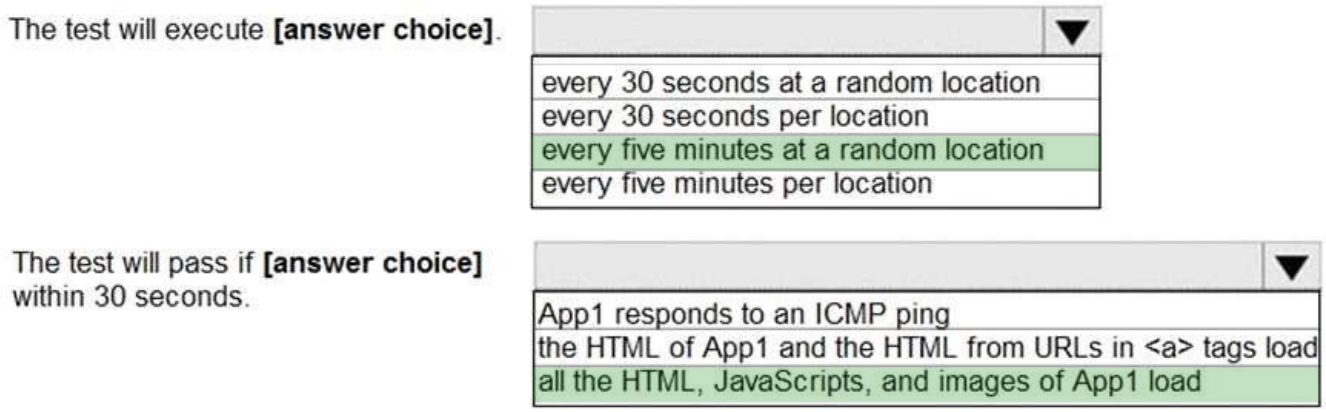

Create test
Basic Information
* Test name
availability
Learn more about configuring tests against applications hosted behind a firewall
Test type
URL ping test
* URL
https://app.contoso.com
Parse dependent requests
Enable retries for availability test failures.
Test frequency
5 minutes
Test locations
4 location(s) configured
Success criteria
Test Timeout
30 seconds
HTTP response
Status code must equal
200
Content match
Content must contain
Copyright Contoso
Alerts
Enabled
Create

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: every five minutes at a random location

Test frequency: Sets how often the test is run from each test location. With a default frequency of five minutes and five test locations, your site is tested on average every minute.

Box 2:

Parse dependent requests: Test requests images, scripts, style files, and other files that are part of the web page under test. The recorded response time includes the time taken to get these files. The test fails if any of these resources cannot

be successfully downloaded within the timeout for the whole test.

Reference:

https://docs.microsoft.com/en-us/azure/azure-monitor/app/monitor-web-app-availability

QUESTION 15

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

1.

Use a project agent pool when authoring build or release pipelines.

2.

View the agent pool and agents of the organization.

3.

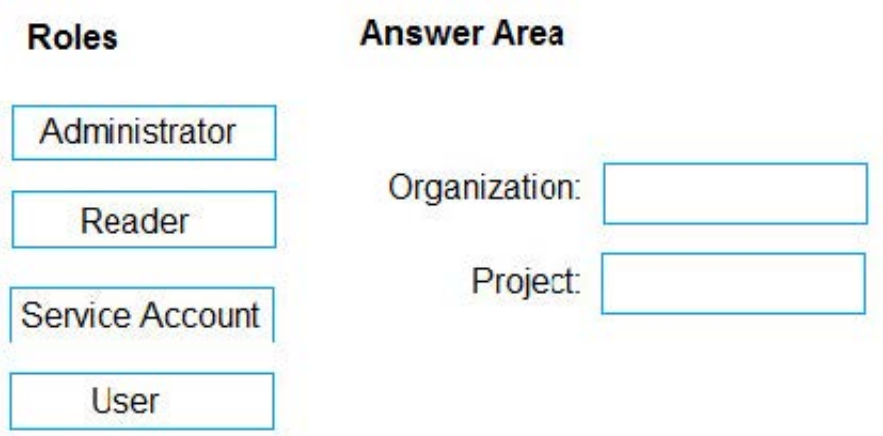
Use the principle of least privilege.

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

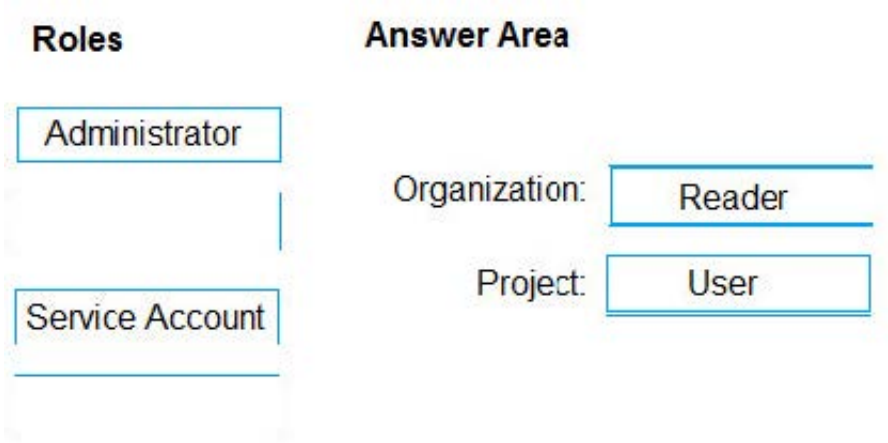
may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



References: https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/pools-queues