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**Vendor:**Microsoft

**Exam Code:**AZ-400

**Exam Name:**Designing and Implementing Microsoft  
DevOps Solutions

**Version:**Demo

## QUESTION 1

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?

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

Correct Answer: D

In some cases, you need to bypass policy requirements so you can push changes to the branch directly or complete a pull request even if branch policies are not satisfied. For these situations, grant the desired permission from the previous list to a user or group. You can scope this permission to an entire project, a repo, or a single branch. Manage this permission along with other Git permissions.

References: <https://docs.microsoft.com/en-us/azure/devops/repos/git/branch-policies>

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## QUESTION 2

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. Create a branch in the build.
- B. Implement a branch policy.
- C. Create a fork in the build.
- D. Implement a feature flag.

Correct Answer: D

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: Isolate work in progress from the completed work in your master branch Guarantee changes build before they get to master

### QUESTION 3

You intend to make use of Azure Artifacts to share packages that you wrote, tested, validated, and deployed.

You want to use a solitary feed to release several builds of each package. You have to make sure that the release of packages that are in development is restricted.

Which of the following actions should you take?

- A. You should make use of static code analysis.
- B. You should make use of views.
- C. You should make use of dynamic code analysis.
- D. You should make use of upstream sources.

Correct Answer: D

Upstream sources enable you to manage all of your product's dependencies in a single feed. We recommend publishing all of the packages for a given product to that product's feed, and managing that product's dependencies from remote feeds in the same feed, via upstream sources. This setup has a few benefits:

1.

Simplicity: your NuGet.config, .npmrc, or settings.xml contains exactly one feed (your feed).

2.

Determinism: your feed resolves package requests in order, so rebuilding the same codebase at the same commit or changeset uses the same set of packages

3.

Provenance: your feed knows the provenance of packages it saved via upstream sources, so you can verify that you're using the original package, not a custom or malicious copy published to your feed

4.

Peace of mind: packages used via upstream sources are guaranteed to be saved in the feed on first use; if the upstream source is disabled/removed, or the remote feed goes down or deletes a package you depend on, you can continue to develop and build

Reference: <https://docs.microsoft.com/en-us/azure/devops/artifacts/concepts/upstream-sources?view=vsts>

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### QUESTION 4

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/azurermsautomation/register-azurermsautomation?view=azurermps-6.13.0>

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## QUESTION 5

DRAG DROP

You have an app named App1. You have a Log Analytics workspace named Workspace 1 that contains two tables named Events and Logs. App1 manages events in multiple locations and writes logs to Workspace1.

You need to query Workspace1 for all log entries related to Asia that occurred during the last two days.

In which order should you arrange the query statements? To answer, move all statements from the list of statements to the answer area and arrange them in the correct order.

Select and Place:

Statements	Answer Area
join ( Events	
) on RequestId	
where Timestamp > ago(2d)	
where continent == 'Asia'	
Logs	

Correct Answer:

Statements	Answer Area
	Logs
	where Timestamp > ago(2d)
	where continent == 'Asia'
	join ( Events
	) on RequestId

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## QUESTION 6

You manage code by using GitHub.

You plan to ensure that all GitHub Actions are validated by a security team.

You create a branch protection rule requiring that code changes be reviewed by code owners.

You need to create the CODEOWNERS file.

Where should you create the file?

- A. .github/actions/
- B. .github/
- C. .git/
- D. .github/workflows/

Correct Answer: C

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#### QUESTION 7

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>

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#### QUESTION 8

You have an Azure DevOps organization named Contoso and an Azure subscription.

You use Azure DevOps to build and deploy a web app named App1. Azure Monitor is configured to generate an email

notification in response to alerts generated whenever App1 generates a server-side error.

You need to receive notifications in Microsoft Teams whenever an Azure Monitor alert is generated.

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

NOTE: Each correct selection is worth one point.

- A. Create an Azure Monitor workbook.
- B. Create an Azure logic app that has an HTTP request trigger.
- C. Create an Azure logic app that has an Azure DevOps trigger.
- D. Modify an action group in Azure Monitor.
- E. Modify the Diagnostics settings in Azure Monitor.

Correct Answer: BE

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/action-groups-logic-app>

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#### QUESTION 9

You are building an ASP.NET Core application.

You plan to create an application utilization baseline by capturing telemetry data.

You need to add code to the application to capture the telemetry data. The solution must minimize the costs of storing the telemetry data.

- A)  
Add the `<MaxTelemetryItemsPerSecond>5</MaxTelemetryItemsPerSecond>` parameter to the `ApplicationInsights.config` file.
- B)  
From the code of the application, disable adaptive sampling.
- C)  
From the code of the application, enable adaptive sampling.
- D)  
Add the `<InitialSamplingPercentage>90</InitialSamplingPercentage>` parameter to the `ApplicationInsights.config` file.
- E)  
From the code of the application, add Azure Application Insights telemetry.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct

selection is worth one point.

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: BE

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## QUESTION 10

### SIMULATION

You need to create a notification if the peak average response time of an Azure web app named az400-9940427-main is more than five seconds when evaluated during a five-minute period. The notification must trigger the "https://contoso.com/notify" webhook.

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

Correct Answer: See solution below.

1.

Open Microsoft Azure Portal

2.

Log into your Azure account and go to App Service and look under Monitoring then you will see Alert.

3.

Select Add an alert rule

4.

Configure the alert rule as per below and click Ok. Source: Alert on Metrics Resource Group: az400-9940427-main  
Resource: az400-9940427-main Threshold: 5 Period: Over the last 5 minutes Webhook: https://contoso.com/notify

**Add an alert rule**

\* Threshold ⓘ  
1 bytes/second

\* Period ⓘ  
Over the last 5 minutes ▼

Email service and co-administrators

Additional administrator email  
Additional administrator email

**Webhook ⓘ**  
HTTP or HTTPS endpoint to route alerts to  
[Learn more about configuring webhooks](#)

OK

References: <https://azure.microsoft.com/es-es/blog/webhooks-for-azure-alerts/>

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### QUESTION 11

Your company uses the following resources:

1. Windows Server 2019 container images hosted in an Azure Container Registry
2. Azure virtual machines that run the latest version of Ubuntu An Azure
- 3.



Log Analytics workspace Azure Active Directory (Azure AD)

4.

An Azure key vault

For which two resources can you receive vulnerability assessments in Azure Security Center?

Each correct answer presents part of the solution.

A. the Azure Log Analytics workspace

B. the Azure key vault

C. the Azure virtual machines that run the latest version of Ubuntu

D. Azure Active Directory (Azure AD)

E. the Windows Server 2019 container images hosted in the Azure Container Registry

Correct Answer: CE

<https://docs.microsoft.com/en-us/azure/security-center/features-paas>

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## QUESTION 12

### HOTSPOT

You use Azure DevOps to manage the build and deployment of an app named App1. You have a release pipeline that deploys a virtual machine named VM1. You plan to monitor the release pipeline by using Azure Monitor. You need to create

an alert to monitor the performance of VM1. The alert must be triggered when the average CPU usage exceeds 70 percent for five minutes. The alert must calculate the average once every minute.

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

Hot Area:

Aggregation granularity (Period):

1 minute
5 minutes

Threshold value:

Static
Dynamic

Operator:

Greater than
Greater than or equal to
Less than or equal to
Less than

Correct Answer:

Aggregation granularity (Period):

1 minute
5 minutes

Threshold value:

Static
Dynamic

Operator:

Greater than
Greater than or equal to
Less than or equal to
Less than

Box 1: 5 minutes The alert must calculate the average once every minute. Note: We [Microsoft] recommend choosing an Aggregation granularity (Period) that is larger than the Frequency of evaluation, to reduce the likelihood of missing the first evaluation of added time series

Box 2: Static

Box 3: Greater than

Example, say you have an App Service plan for your website. You want to monitor CPU usage on multiple instances running your web site/app. You can do that using a metric alert rule as follows:

1.

Target resource: myAppServicePlan

2.

Metric: Percentage CPU

3.

Condition Type: Static

4.

Dimensions

5.

Instance = InstanceName1, InstanceName2

6.

Time Aggregation: Average

7.

Period: Over the last 5 mins

8.

Frequency: 1 min

9.

Operator: GreaterThan 10.Threshold: 70 11.Like before, this rule monitors if the average CPU usage for the last 5 minutes exceeds 70%. 12.Aggregation granularity

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-metric-overview>