

Exam Questions AZ-400

Microsoft Azure DevOps Solutions (beta)

<https://www.2passeasy.com/dumps/AZ-400/>



NEW QUESTION 1

- (Exam Topic 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 plan to create a release pipeline that will deploy Azure resources by using Azure Resource Manager templates. The release pipeline will create the following resources:

- > Two resource groups
- > Four Azure virtual machines in one resource group
- > Two Azure SQL databases in other resource group

You need to recommend a solution to deploy the resources.

Solution: Create two standalone templates, each of which will deploy the resources in its respective group. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

References: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-linked-templates>

NEW QUESTION 2

- (Exam Topic 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?

- A. Service Map in Azure Log Analytics
- B. Profiler in Azure Application Insights
- C. availability tests in Azure Application Insights
- D. Application Map in Azure Application Insights

Answer: C

Explanation:

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

NEW QUESTION 3

- (Exam Topic 4)

You use Git for source control. You have an app named Appt.

In the main branch, you need to restore the third most recent revision of a file named App.exe.config. How should you complete command?



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 4

- (Exam Topic 4)

You are designing the development process for your company.

You need to recommend a solution for continuous inspection of the company's code base to locate common code patterns that are known to be problematic.

What should you include in the recommendation?

- A. Microsoft Visual Studio test plans
- B. Gradle wrapper scripts
- C. SonarCloud analysis
- D. the JavaScript task runner

Answer: C

Explanation:

SonarCloud is a cloud service offered by SonarSource and based on SonarQube. SonarQube is a widely adopted open source platform to inspect continuously the quality of source code and detect bugs, vulnerabilities and code smells in more than 20 different languages.

Note: The SonarCloud Azure DevOps extension brings everything you need to have your projects analyzed on SonarCloud very quickly.

NEW QUESTION 5

- (Exam Topic 4)

Your team uses Azure Pipelines to deploy applications.

You need to ensure that when a failure occurs during the build or release process. all the team members are notified by using Microsoft Teams. The solution must minimize development effort.

What should you do?

- A. Use Azure Automation to connect to the Azure DevOps REST API and notify the team members.
- B. Install the Azure Pipelines app for Teams and configure a subscription to receive notifications in a channel.
- C. Install the Azure Boards app for Teams and configure a subscription to receive notifications in a channel.
- D. Use an Azure function to connect to the Azure DevOps REST API and notify the team members.

Answer: C

NEW QUESTION 6

- (Exam Topic 4)

You are designing a YAML template for use with Azure Pipelines. The template Will include the Outputfile parameter.

Which two methods can you use to reference the parameter? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A. `$(parameters['outputfile'])`

B. `${{parameters.outputfile}}`

C. `$(parameters.outputfile)`

D. `$(parameters[outputfile])`

E. `${{parameters['outputfile']}}`

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

Answer: CD

NEW QUESTION 7

- (Exam Topic 4)

You have a project in Azure DevOps named Contoso App that contains pipelines in Azure Pipelines for GitHub repositories. You need to ensure that developers receive Microsoft Teams notifications when there are failures in a pipeline of Contoso App. What should you run in Teams? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

@azure pipelines	<input type="checkbox"/> feedback <input type="checkbox"/> signin <input type="checkbox"/> subscribe <input type="checkbox"/> subscriptions	<input type="checkbox"/> https://dev.azure.com/contoso/contoso-app/ <input type="checkbox"/> https://dev.azure.com/contoso/contoso-app/_build <input type="checkbox"/> https://dev.azure.com/contoso/contoso-app/_packaging <input type="checkbox"/> https://dev.azure.com/contoso/contoso-app/_work-items
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- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: subscribe

To start monitoring all pipelines in a project, use the following command inside a channel:

@azure pipelines subscribe [project url]

Box 2: https://dev.azure.com/contoso/contoso-app/

Subscribe to a pipeline or all pipelines in a project to receive notifications:

@azure pipelines subscribe [pipeline url/ project url]

NEW QUESTION 8

- (Exam Topic 4)

You have a private project in Azure DevOps.

You need to ensure that a project manager can create custom work item queries to report on the project's progress. The solution must use the principle of least privilege.

To which security group should you add the project manager?

- A. Project Collection Administrators
- B. Reader
- C. Project Administrators
- D. Contributor

Answer: D

Explanation:

Contributors have permissions to contribute fully to the project code base and work item tracking. The main permissions they don't have or those that manage or administer resources.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/organizations/security/permissions>

<https://docs.microsoft.com/en-us/azure/devops/organizations/security/permissions-access-work-tracking?view=a>

NEW QUESTION 9

- (Exam Topic 4)

Your company creates a new Azure DevOps team. D18912E1457D5D1DDCBD40AB3BF70D5D

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

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/>

NEW QUESTION 10

- (Exam Topic 4)

You need to ensure that an Azure web app named az400-9940427-main supports rolling upgrades. The solution must ensure that only 10 percent of users who connect to az400-9940427-main use update versions of the app.

The solution must minimize administrative effort.

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

- A. Mastered
- B. Not Mastered

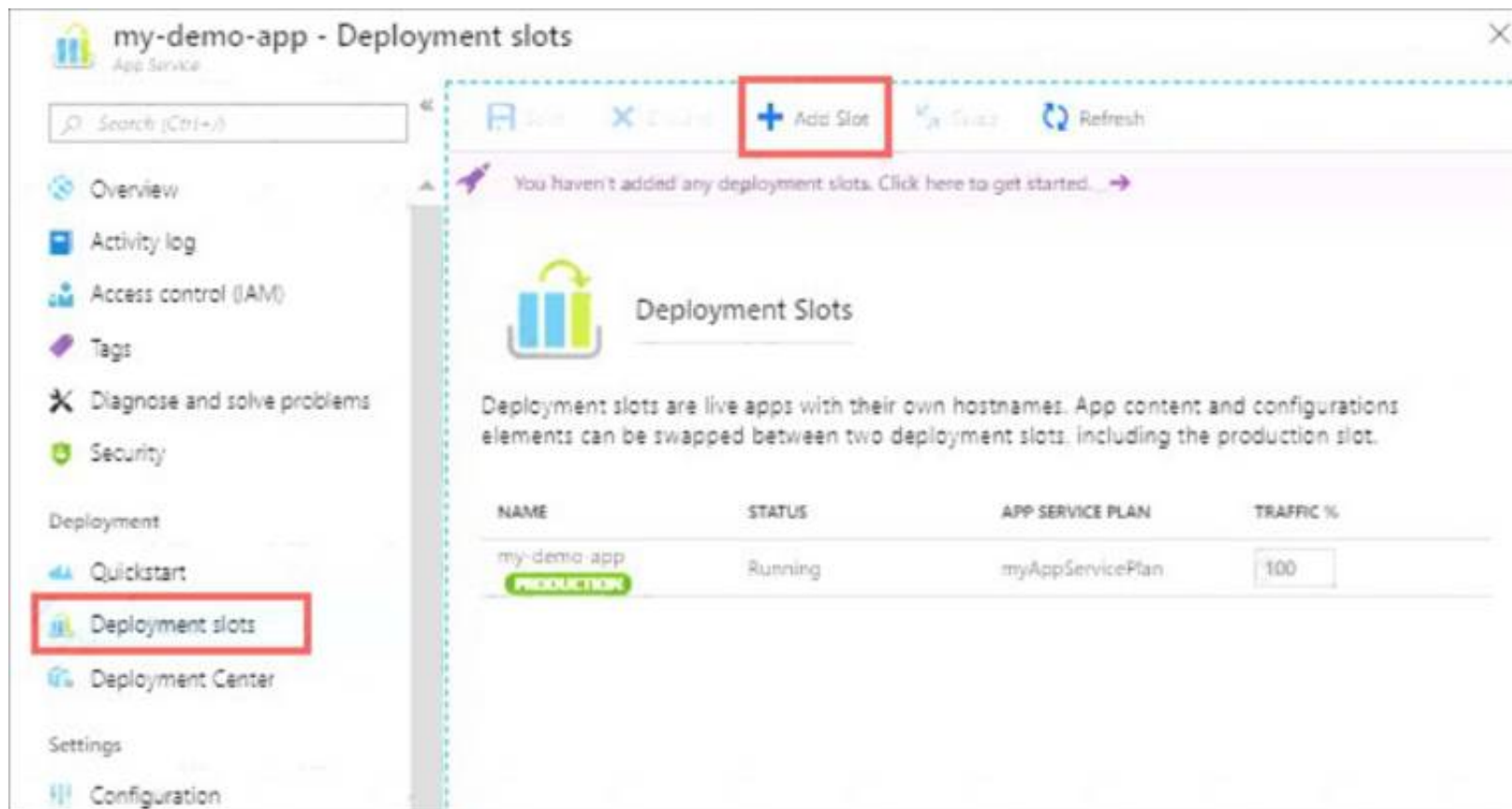
Answer: A

Explanation:

Set up staging environments in Azure App Service

* 1. Open Microsoft Azure Portal

* 2. Log into your Azure account, select your app's resource page, in the left pane, select Deployment slots > Add Slot.

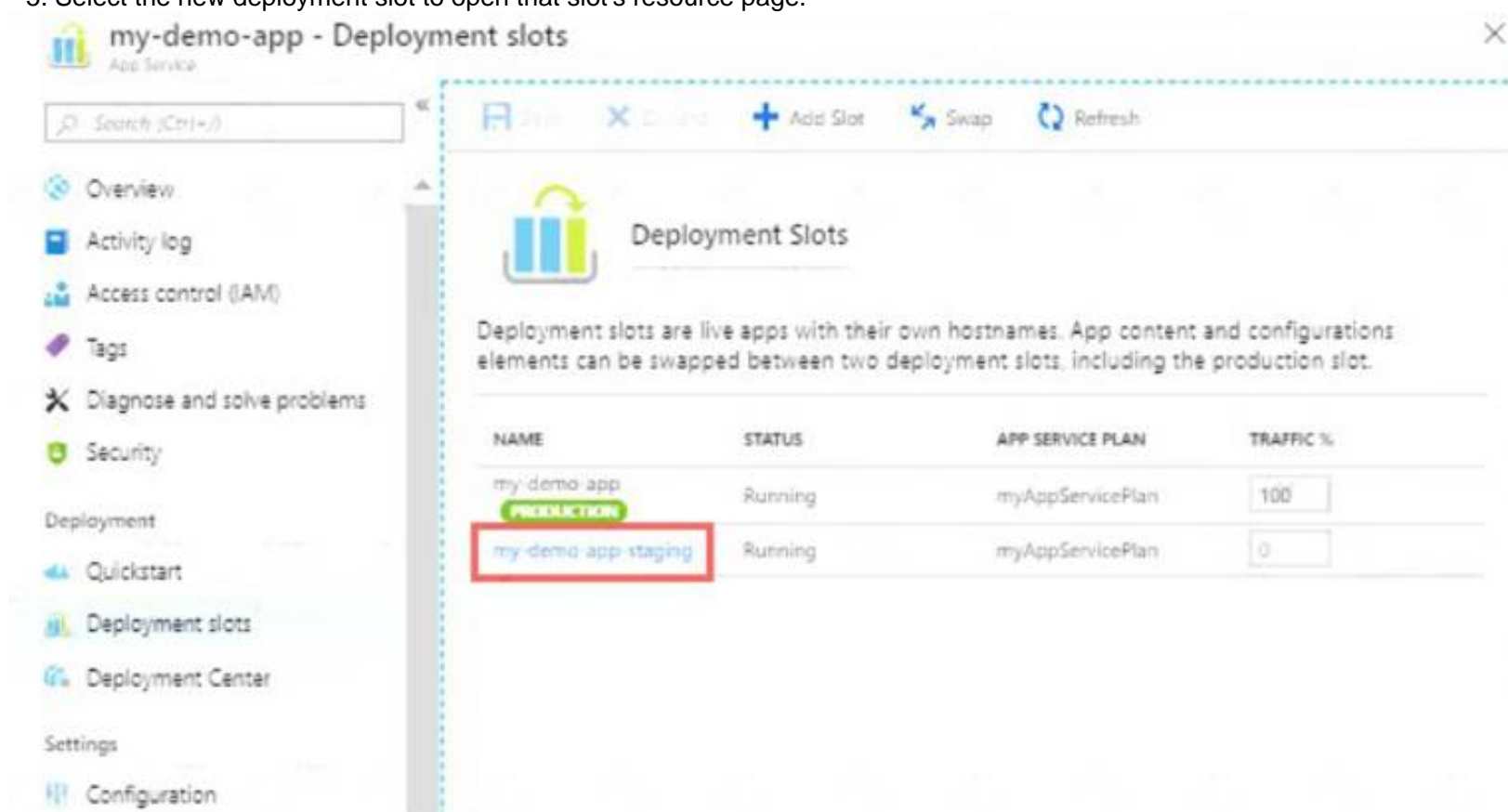


* 3. In the Add a slot dialog box, give the slot a name, and select whether to clone an app configuration from another deployment slot. Select Add to continue.



* 4. After the slot is added, select Close to close the dialog box. The new slot is now shown on the Deployment slots page. By default, Traffic % is set to 0 for the new slot, with all customer traffic routed to the production slot.

* 5. Select the new deployment slot to open that slot's resource page.



* 6. Change TRAFFIC % to 10 References:

<https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots>

NEW QUESTION 10

- (Exam Topic 4)
You have an Azure subscription that contains the resources shown in the following table.

Name	Type
Feed1	Azure Artifacts feed
Project1	Project in Azure DevOps

Project1 produces npm packages that are published to Feed1. Feed1 is consumed by multiple projects. You need to ensure that only tested packages are available for consumption. The solution must minimize development effort.
What should you do?

- A. Create a feed view named @default
- B. After the npm packages test successfully, configure a release pipeline that tags the packages as release.
- C. Create a feed view named @release and set @release as the default view
- D. After the npm packages test successfully, configure a release pipeline that tags the packages as release.
- E. Create a feed view named @release and set @release as the default view After the npm packages test successfully, configure a release pipeline that promotes a package to the @release view.
- F. Create a feed view named @default
- G. After the npm packages test successfully, configure a release pipeline that promotes a package to the @default view.

Answer: C

Explanation:
By creating a feed view named "release" and setting it as the default view, packages that are published to the feed will not be immediately available for consumption. After the npm packages are tested successfully, you can configure a release pipeline that promotes a package to the @release view. This ensures that only tested packages are available for consumption and minimizes development effort as it doesn't require any additional steps to be taken by the consumer of the feed.

Reference:
Azure DevOps Docs: Create a feed and views
<https://docs.microsoft.com/en-us/azure/devops/artifacts/feeds/create-feed?view=azure-devops>
Azure DevOps Docs: Promote a package
<https://docs.microsoft.com/en-us/azure/devops/artifacts/feeds/promote-package?view=azure-devops>

NEW QUESTION 11

- (Exam Topic 4)
You have an Azure subscription that contains multiple Azure pipelines.
You need to deploy a monitoring solution for the pi*lines. The solution must meet the following requirements:

- > Parse logs from multiple sources.
- > identify the root cause of issues.

What advanced feature of a monitoring tool should include in the solution?

- A. directed monitoring
- B. synthetic monitoring
- C. analytics
- D. Alert Management

Answer: B

NEW QUESTION 13

- (Exam Topic 4)
You are creating a NuGet package.
You plan to distribute the package to your development team privately. You need to share the package and test that the package can be consumed.
Which four 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.

Actions

Answer Area

- Create a new Azure Artifacts feed.
- Configure a self-hosted agent.
- Publish a package.
- Install a package.
- Connect to an Azure Artifacts feed.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Configure a self-hosted agent.

The build will run on a Microsoft hosted agent. Step 2: Create a new Azure Artifacts feed

Microsoft offers an official extension for publishing and managing your private NuGet feeds.

Step 3: Publish the package.

Publish, pack and push the built project to your NuGet feed. Step 4: Connect to an Azure Artifacts feed.

With the package now available, you can point Visual Studio to the feed, and download the newly published package

References:

<https://medium.com/@dan.cokely/creating-nuget-packages-in-azure-devops-with-azure-pipelines-and-yaml-d6fa>

NEW QUESTION 15

- (Exam Topic 4)

Your company has an Azure subscription named Subscription1. Subscription1 is associated to an Azure Active Directory tenant named contoso.com.

You need to provision an Azure Kubernetes Services (AKS) cluster in Subscription1 and set the permissions for the cluster by using RBAC roles that reference the identities in contoso.com.

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

Answer Area

Objects

a system-assigned managed identity

a cluster

an application registration in contoso.com

an RBAC binding

- A. Mastered
- B. Not Mastered

Answer: A

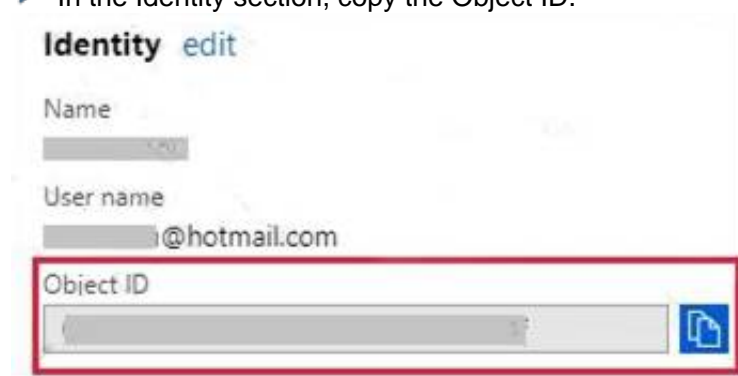
Explanation:

Step 1: Create an AKS cluster

Step 2: a system-assigned managed identity

To create an RBAC binding, you first need to get the Azure AD Object ID.

- > Sign in to the Azure portal.
- > In the search field at the top of the page, enter Azure Active Directory.
- > Click Enter.
- > In the Manage menu, select Users.
- > In the name field, search for your account.
- > In the Name column, select the link to your account.
- > In the Identity section, copy the Object ID.



Step 3: a RBAC binding Reference:

<https://docs.microsoft.com/en-us/azure/developer/ansible/aks-configure-rbac>

NEW QUESTION 17

- (Exam Topic 4)

Your company uses GitHub for source control. The company has a team that performs code reviews.

You need to automate the assignment of the code reviews. The solution must meet the following requirements: Prioritize the assignment of code reviews to team members who have the fewest outstanding assignments.

Ensure that each team member performs an equal number of code reviews in any 30-day period. Prevent the assignment of code reviews to the team leader.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Clear Never assign certain team members.
- B. Select If assigning team members, don't notify the entire team.
- C. Select Never assign certain team members.
- D. Set Routing algorithm to Round robin.
- E. Set Routing algorithm to Load balance.

Answer: AE

Explanation:

A: To always skip certain members of the team, select Never assign certain team members. Then, select one or more team members you'd like to always skip. In this case select the team leader.

E: The load balance algorithm chooses reviewers based on each member's total number of recent review requests and considers the number of outstanding reviews for each member. The load balance algorithm tries to ensure that each team member reviews an equal number of pull requests in any 30 day period.

Reference:

<https://docs.github.com/en/organizations/organizing-members-into-teams/managing-code-review-assignment-fo>

NEW QUESTION 18

- (Exam Topic 4)

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 Project 1. Project! 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, configure the autoscale settings.

Does this meet the goal?

A. Yes

B. No

Answer: B

NEW QUESTION 20

- (Exam Topic 4)

You create a Microsoft ASP.NET Core application.

You plan to use Azure Key Vault to provide secrets to the application as configuration data.

You need to create a Key Vault access policy to assign secret permissions to the application. The solution must use the principle of least privilege.

Which secret permissions should you use?

A. List only

B. Get only

C. Get and List

Answer: B

Explanation:

Application data plane permissions:

> Keys: sign

> Secrets: get Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/key-vault-secure-your-key-vault>

NEW QUESTION 22

- (Exam Topic 4)

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 use Azure Pipelines to build and test a React js application. You have a pipeline that has a single job.

You discover that installing JavaScript packages from npm takes approximately five minutes each time you run the pipeline.

You need to recommend a solution to reduce the pipeline execution time.

Solution: You recommend defining a container job that uses a custom container that has the JavaScript packages preinstalled.

Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Instead enable pipeline caching. Note:

npm-cache is a command line utility that caches dependencies installed via npm, bower, jspm and composer.

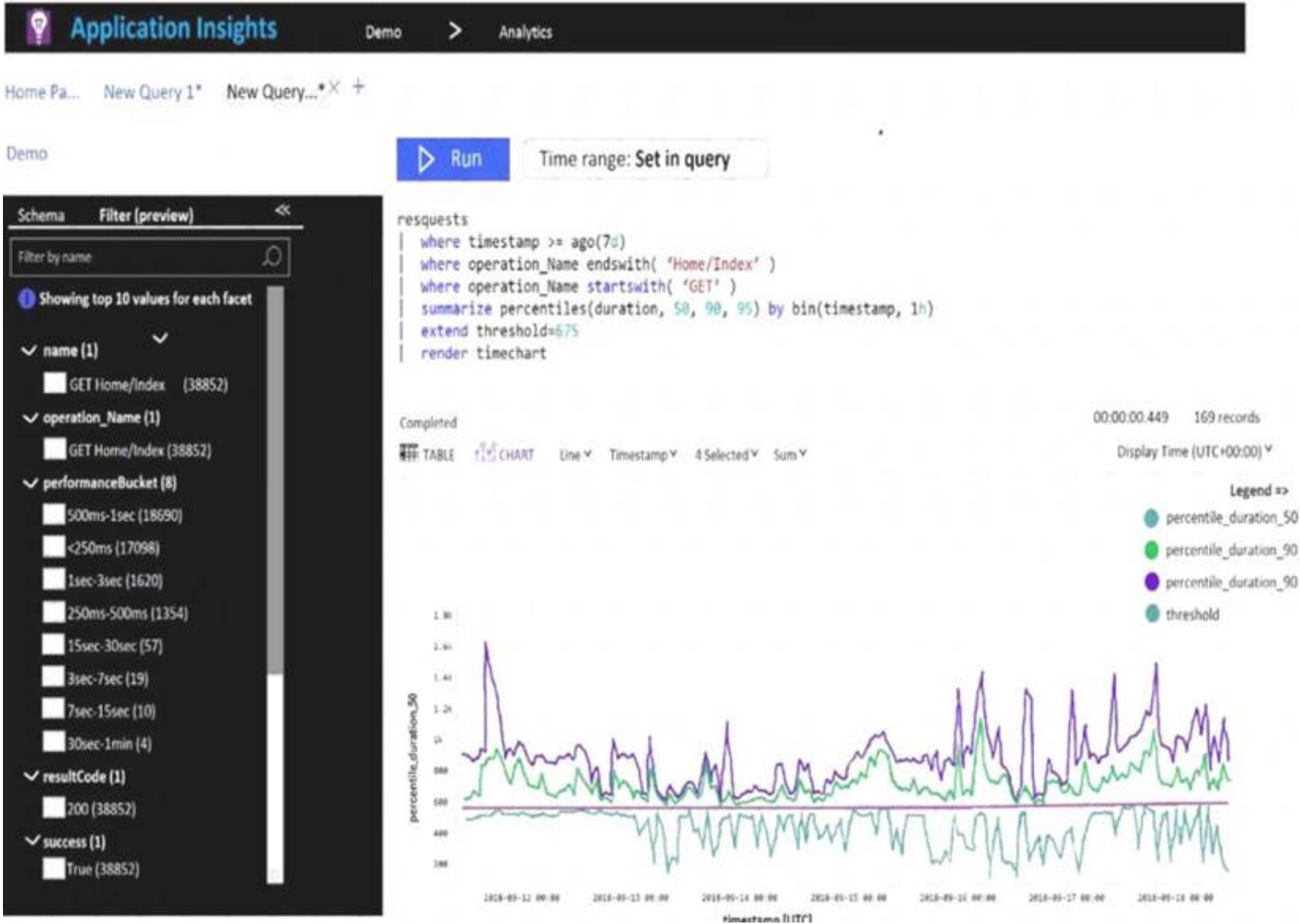
It is useful for build processes that run [npm|bower|composer|jspm] install every time as part of their build process. Since dependencies don't change often, this often means slower build times. npm-cache helps alleviate this problem by caching previously installed dependencies on the build machine.

Reference: <https://www.npmjs.com/package/npm-cache>

NEW QUESTION 27

- (Exam Topic 4)

You plan to create alerts that will be triggered based on the page load performance of a home page. You have the Application Insights log query shown in the following exhibit.



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.

To create an alert based on the page load experience of most users, the alerting level must be based on [answer choice].

▼

percentile_duration_50

percentile_duration_90

percentile_duration_95

threshold

To only create an alert when authentication error occurs on the server, the query must be filtered on [answer choice].

▼

item Type

resultCode

source

success

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: percentile_duration_95
Box 2: resultCode Reference:
<https://devblogs.microsoft.com/premier-developer/alerts-based-on-analytics-query-using-custom-log-search/>

NEW QUESTION 32

- (Exam Topic 4)
Your team uses an agile development approach.
You need to recommend a branching strategy for the team's Git repository. The strategy must meet the following requirements.
Provide the ability to work on multiple independent tasks in parallel. Ensure that checked-in code remains in a releasable state always. Ensure that new features can be abandoned at any time.
Encourage experimentation. What should you recommend?

- A. a single long-running branch
- B. multiple long-running branches
- C. a single fork per team member
- D. a single-running branch with multiple short-lived topic branches

Answer: D

NEW QUESTION 35

- (Exam Topic 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 have an approval process that contains a condition. The condition requires that releases be approved by a team leader before they are deployed.

You have a policy stating that approvals must occur within eight hours.

You discover that deployments only fail if the approvals take longer than two hours.

You need to ensure that the deployments only fail if the approvals take longer than hours.

Solution: From Post-deployment conditions, you modify the Timeout setting for post-deployment approvals. Does this meet the goal?

A. Yes

B. NO

Answer: B

NEW QUESTION 39

- (Exam Topic 4)

You have an Azure DevOps organization named Contoso.

You need to receive Microsoft Teams notifications when work items are updated. What should you do?

A. From Azure DevOps

B. configure a service hook subscription.

C. From Microsoft Teams, configure a connector.

D. From Microsoft Teams, add a channel.

E. From Azure DevOps

F. install an extension.

G. From the Microsoft Teams admin center configure external access.

Answer: A

Explanation:

<https://azuredevopslabs.com/labs/vstsextend/teams/>

NEW QUESTION 43

- (Exam Topic 4)

You have a web app that connects to an Azure SQL Database named db1.

You need to configure db1 to send Query Store runtime statistics to Azure Log Analytics. To complete this task, sign in to the Microsoft Azure portal.

A. Mastered

B. Not Mastered

Answer: A

Explanation:

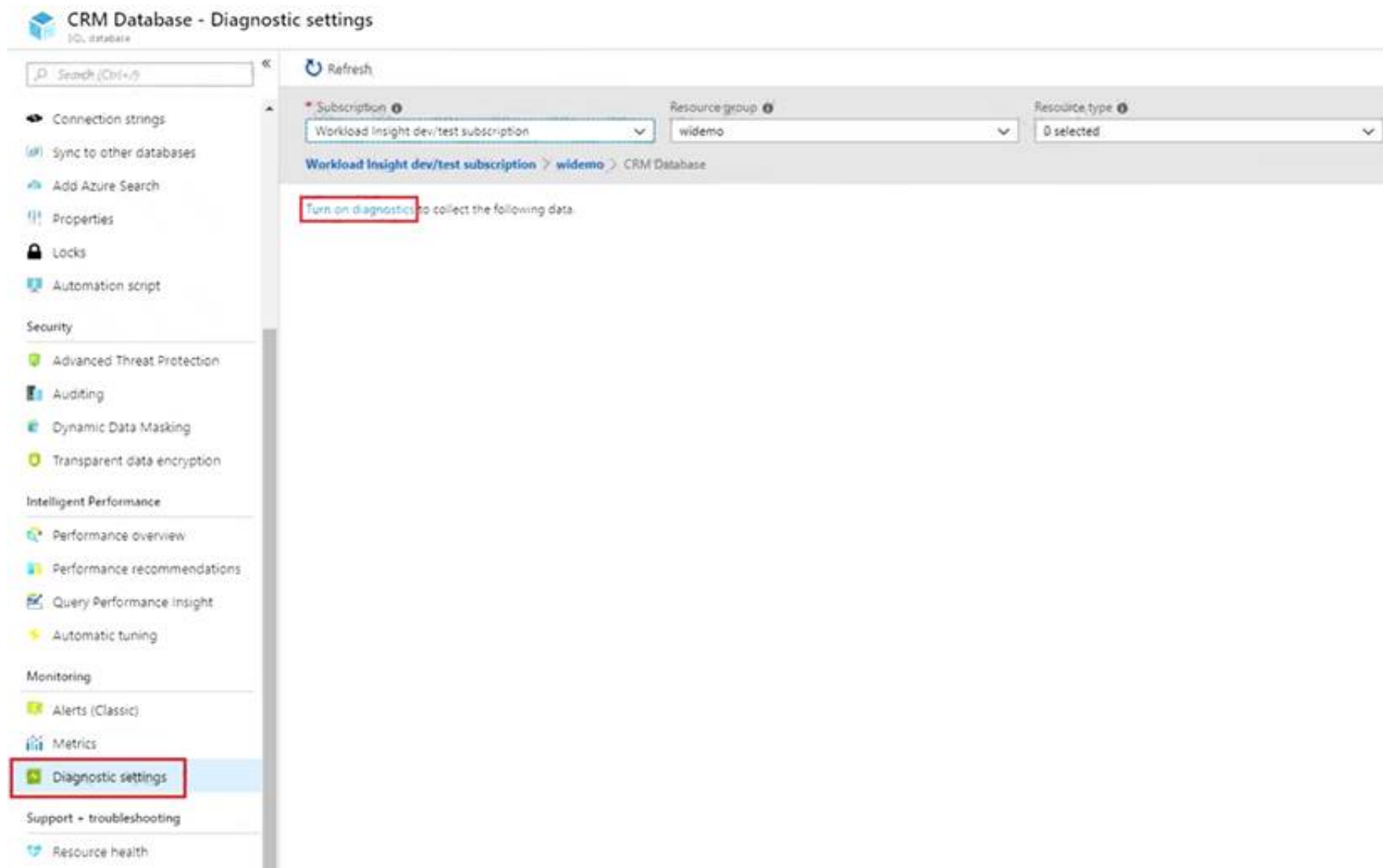
To enable streaming of diagnostic telemetry for a single or a pooled database, follow these steps:

* 1. Go to Azure SQL database resource.

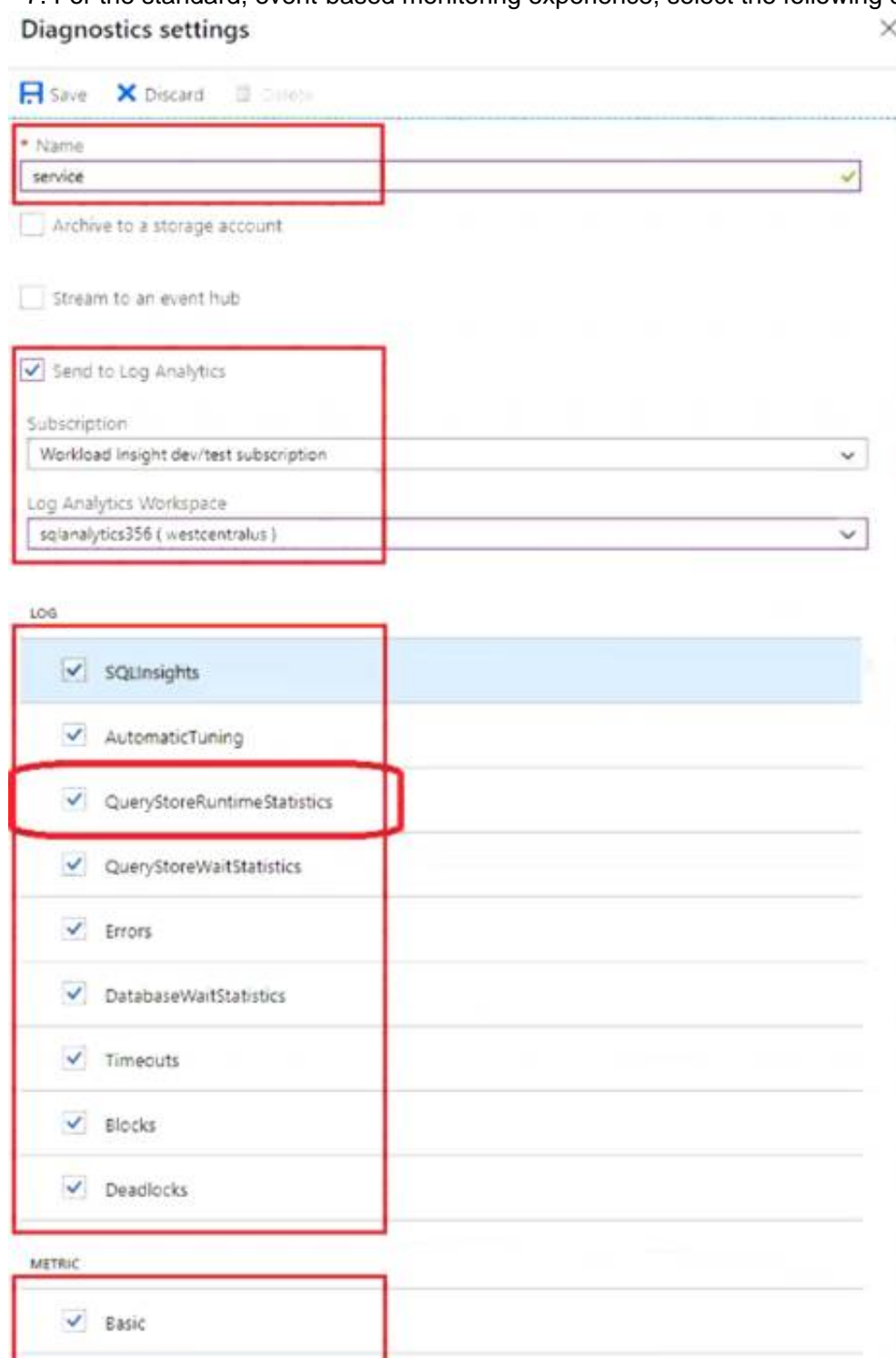
* 2. Select Diagnostics settings.

* 3. Select Turn on diagnostics if no previous settings exist, or select Edit setting to edit a previous setting. You can create up to three parallel connections to stream diagnostic telemetry.

* 4. Select Add diagnostic setting to configure parallel streaming of diagnostics data to multiple resources.



- * 5. Enter a setting name for your own reference.
- * 6. Select a destination resource for the streaming diagnostics data: Archive to storage account, Stream to an event hub, or Send to Log Analytics.
- * 7. For the standard, event-based monitoring experience, select the following check boxes for database diagnostics log telemetry: QueryStoreRuntimeStatistics



- * 8. For an advanced, one-minute-based monitoring experience, select the check box for Basic metrics.
- * 9. Select Save. Reference:
<https://docs.microsoft.com/en-us/azure/azure-sql/database/metrics-diagnostic-telemetry-logging-streaming-expo>

NEW QUESTION 45

- (Exam Topic 4)

You have a build pipeline in Azure Pipelines that uses different jobs to compile an application for 10 different architectures. The build pipeline takes approximately one day to complete.

You need to reduce the time it takes to execute the build pipeline

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point

- A. Move to a blue/green deployment pattern.
- B. Create an agent pool.
- C. Create a deployment group.
- D. Reduce the size of the repository.
- E. Increase the number of parallel jobs.

Answer: BE

Explanation:

Question: I need more hosted build resources. What can I do?

Answer: The Azure Pipelines pool provides all Azure DevOps organizations with cloud-hosted build agents and free build minutes each month. If you need more Microsoft-hosted build resources, or need to run more jobs in parallel, then you can either:

Host your own agents on infrastructure that you manage. Buy additional parallel jobs.

Reference:

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

NEW QUESTION 47

- (Exam Topic 4)

You have web app named App1 that uses Application Insights in Azure Monitor to Store log data. App1 has users in multiple locations.

You need to query App1 requests from London and Paris that return error. The solution must meet the following requirements:

- > Return the timestamp, url, resultCode, and duration fields.
- > Only requests made the last hour.

How shout you complete the query?

Values

extend

project

select

timestamp >= ago(1hr)

timestamp -gt ago(1hr)

Answer Area

```
...
requests
| where [ ]
| where resultCode == "404" and (client_City == "London" or client_City == "Paris")
| [ ] timestamp, url, resultCode, duration
...
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Values

extend

project

select

timestamp >= ago(1hr)

timestamp -gt ago(1hr)

Answer Area

```
...
requests
| where [timestamp -gt ago(1hr)]
| where resultCode == "404" and (client_City == "London" or client_City == "Paris")
| [select] timestamp, url, resultCode, duration
...
```

NEW QUESTION 49

- (Exam Topic 4)

Your company has a project in Azure DevOps for a new web application. The company identifies security as one of the highest priorities.

You need to recommend a solution to minimize the likelihood that infrastructure credentials will be leaked. What should you recommend?

- A. Add a Run Inline Azure PowerShell task to the pipeline.

- B. Add a PowerShell task to the pipeline and run Set-AzureKeyVaultSecret.
- C. Add a Azure Key Vault task to the pipeline.
- D. Add Azure Key Vault references to Azure Resource Manger templates.

Answer: B

Explanation:

Azure Key Vault provides a way to securely store credentials and other keys and secrets.

The Set-AzureKeyVaultSecret cmdlet creates or updates a secret in a key vault in Azure Key Vault. References:

<https://docs.microsoft.com/en-us/powershell/module/azurerm.keyvault/set-azurekeyvaultsecret>

NEW QUESTION 53

- (Exam Topic 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 plan to update the Azure DevOps strategy of your company.

You need to identify the following issues as they occur during the company's development process:

- > Licensing violations
- > Prohibited libraries

Solution: You implement pre-deployment gates. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead use implement continuous integration.

Note: WhiteSource is the leader in continuous open source software security and compliance management. WhiteSource integrates into your build process, irrespective of your programming languages, build tools, or development environments. It works automatically, continuously, and silently in the background, checking the security, licensing, and quality of your open source components against WhiteSource constantly-updated denitive database of open source repositories.

Reference: <https://azuredevopslabs.com/labs/vstsextend/whitesource/>

NEW QUESTION 55

- (Exam Topic 4)

You are monitoring the health and performance of an Azure web app by using Azure Application Insights. You need to ensure that an alert is sent when the web app has a sudden rise in performance issues and failures. What should you use?

- A. custom events
- B. Application Insights Profiler
- C. usage analysis
- D. Smart Detection
- E. Continuous export

Answer: D

Explanation:

Smart Detection automatically warns you of potential performance problems and failure anomalies in your web application. It performs proactive analysis of the telemetry that your app sends to Application

Insights. If there is a sudden rise in failure rates, or abnormal patterns in client or server performance, you get an alert.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/proactive-diagnostics>

NEW QUESTION 58

- (Exam Topic 4)

You need to execute inline testing of an Azure DevOps pipeline that uses a Docker deployment model. The solution must prevent the results from being published to the pipeline.

What should you use for the inline testing?

- A. a single stage Dockerfile
- B. an Azure Kubernetes Service (AKS) pod
- C. a multi-stage Dockerfile
- D. a Docker Compose file

Answer: C

Explanation:

"Build and test with a multi-stage Dockerfile: build and tests execute inside the container using a multi-stage Docker file, as such test results are not published back to the pipeline."

<https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/test/publish-test-results?view=azure-devops&tabs>

NEW QUESTION 59

- (Exam Topic 4)

You have an Azure DevOps pipeline that is used to deploy a Node.js app. You need to ensure that the dependencies are cached between builds.

How should you configure the deployment YAML? 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 split bar between panes or scroll to view content.

NOTE Each correct selection is worth one point.

Values

always()

build.sh

eq(variables.CACHE_RESTORED, 'true')

integrationtest.sh

ne(variables.CACHE_RESTORED, 'true')

npm install

Answer Area

Inputs:

key: 'npm | "\$(Agent.OS)" | package-lock.json'

restoreKeys: |

npm | "\$(Agent.OS)"

path: \$(npm_config_cache)

cacheHitVar: CACHE_RESTORED

- script:

Value

condition:

Value

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Values

always()

build.sh

eq(variables.CACHE_RESTORED, 'true')

integrationtest.sh

ne(variables.CACHE_RESTORED, 'true')

npm install

Answer Area

Inputs:

key: 'npm | "\$(Agent.OS)" | package-lock.json'

restoreKeys: |

npm | "\$(Agent.OS)"

path: \$(npm_config_cache)

cacheHitVar: CACHE_RESTORED

- script:

npm install

condition:

ne(variables.CACHE_RESTORED, 'true')

NEW QUESTION 60

- (Exam Topic 4)

You have an Azure DevOps organization named Contoso.
You have 10 Azure virtual machines that run Windows Server 2019. The virtual machines host an application that you build and deploy by using Azure Pipelines.
Each virtual machine has the Web Server (IIS) role installed and configured.
You need to ensure that the web server configurations pin the virtual machines is maintained automatically. The solution must provide centralized management of the configuration settings and minimize management overhead.
Which four 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.

Actions

Install the custom Desired State Configuration (DSC) extension on the virtual machines.

Compile the Desired State Configuration (DSC) configuration.

Import a Desired State Configuration (DSC) configuration into the Azure Automation account.

Create an Azure Automation account.

Onboard the virtual machines to the Azure Automation account.

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step1: Create an Azure Automation account. An Azure Automation account is required.
Step 2: Install the custom Desired State Configuration (DSC) extension on the virtual machines
Under the hood, and without an administrator having to remote into a VM, the Azure VM Desired State Configuration extension registers the VM with Azure Automation State Configuration.
Step 3: Onboard the virtual machines to the Azure Automation account. Step 4: Complete the Desired State Configuration (DSC) configuration. Create a DSC

configuration.

Reference:

<https://docs.microsoft.com/en-us/azure/automation/automation-dsc-onboarding>

NEW QUESTION 62

- (Exam Topic 4)

Your company uses Azure DevOps.

Only users who have accounts in Azure Active Directory can access the Azure DevOps environment. You need to ensure that only devices that are connected to the on-premises network can access the Azure DevOps environment.

What should you do?

- A. Assign the Stakeholder access level to all users.
- B. In Azure Active Directory, configure risky sign-ins.
- C. In Azure DevOps, configure Security in Project Settings.
- D. In Azure Active Directory, configure conditional access.

Answer: D

Explanation:

Conditional Access is a capability of Azure Active Directory. With Conditional Access, you can implement automated access control decisions for accessing your cloud apps that are based on conditions.

Conditional Access policies are enforced after the first-factor authentication has been completed. References:

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/overview>

NEW QUESTION 65

- (Exam Topic 4)

Your company deploys applications in Docker containers.

You want to detect known exploits in the Docker images used to provision the Docker containers.

You need to integrate image scanning into the application lifecycle. The solution must expose the exploits as early as possible during the application lifecycle.

What should you configure?

- A. a task executed in the continuous deployment pipeline and a scheduled task against a running production container.
- B. a task executed in the continuous integration pipeline and a scheduled task that analyzes the production container.
- C. a task executed in the continuous integration pipeline and a scheduled task that analyzes the image registry
- D. manual tasks performed during the planning phase and the deployment phase

Answer: C

Explanation:

You can use the Docker task to sign into ACR and then use a subsequent script to pull an image and scan the container image for vulnerabilities.

Use the docker task in a build or release pipeline. This task can be used with Docker or Azure Container registry.

References:

<https://docs.microsoft.com/en-us/azure/devops/articles/security-validation-cicd-pipeline?view=vsts>

NEW QUESTION 69

- (Exam Topic 4)

You have a project in Azure DevOps named Project1. Project1 contains a pipeline that builds a container image named Image1 and pushes Image1 to an Azure container registry named ACR1. Image1 uses a base image stored in Docker Hub.

You need to ensure that Image1 is updated automatically whenever the base image is updated. What should you do?

- A. Create and run an Azure Container Registry task.
- B. Add a Docker Hub service connection to Azure Pipelines.
- C. Enable the Azure Event Grid resource provider and subscribe to registry events.
- D. Create a service hook in Project1.

Answer: A

Explanation:

ACR Tasks supports automated container image builds when a container's base image is updated, such as when you patch the OS or application framework in one of your base images.

Reference:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-tutorial-base-image-update>

NEW QUESTION 71

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

- The builds must access an on-premises dependency management system.
- The build outputs must be stored as Server artifacts in Azure DevOps.
- The source code must be stored in a Git repository in Azure DevOps.

Solution: Configure the build pipeline to use a Hosted Ubuntu agent pool. Include the Java Tool Installer task in the build pipeline. Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 76

- (Exam Topic 4)

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

Answer: AB

Explanation:

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

NEW QUESTION 79

- (Exam Topic 4)

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 DevOps, configure the Notifications settings for Project1. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Notifications help you and your team stay informed about activity that occurs within your projects in Azure DevOps. You can get notified when changes occur to the following items:

- > work items
- > code reviews
- > pull requests
- > source control files
- > builds

Reference:

<https://docs.microsoft.com/en-us/azure/devops/notifications/about-notifications?view=azure-devops>


NEW QUESTION 82

- (Exam Topic 4)


You have a project in Azure DevOps that contains a release pipeline. The pipeline contains two stages named QA and Prod. QA deploys code to an Azure web app named webapp1. Prod deploys code to an Azure web app named webapp2.

You need to ensure that code deployments to webapp2 are blocked if Azure Application Insights generates Failed requests alerts following the deployment of new code to webapp1.

What should you do for each stage? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

QA: 

- Add a task to configure alert rules in Application Insights.
- Configure a gate in the pre-deployment conditions.
- Configure an auto-redeploy trigger in the post-deployment conditions
- Configure a post-deployment approval in the post-deployment conditions

Prod: 

- Add a task to configure an alert rule in Application Insights.
- Configure a gate in the pre-deployment conditions.
- Configure a trigger in the pre-deployment conditions.
- Configure the Deployment queue settings in the pre-deployment conditions.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

QA:

Add a task to configure alert rules in Application Insights.
 Configure a gate in the pre-deployment conditions.
 Configure an auto-redeploy trigger in the post-deployment conditions
 Configure a post-deployment approval in the post-deployment conditions

Prod:

Add a task to configure an alert rule in Application Insights.
 Configure a gate in the pre-deployment conditions!
 Configure a trigger in the pre-deployment conditions.
 Configure the Deployment queue settings in the pre-deployment conditions.

NEW QUESTION 83

- (Exam Topic 4)

You need to create an instance of Azure Application Insights named az400-9940427-main and configure the instance to receive telemetry data from an Azure web app named az400-9940427-main.

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

- A. Mastered
- B. Not Mastered

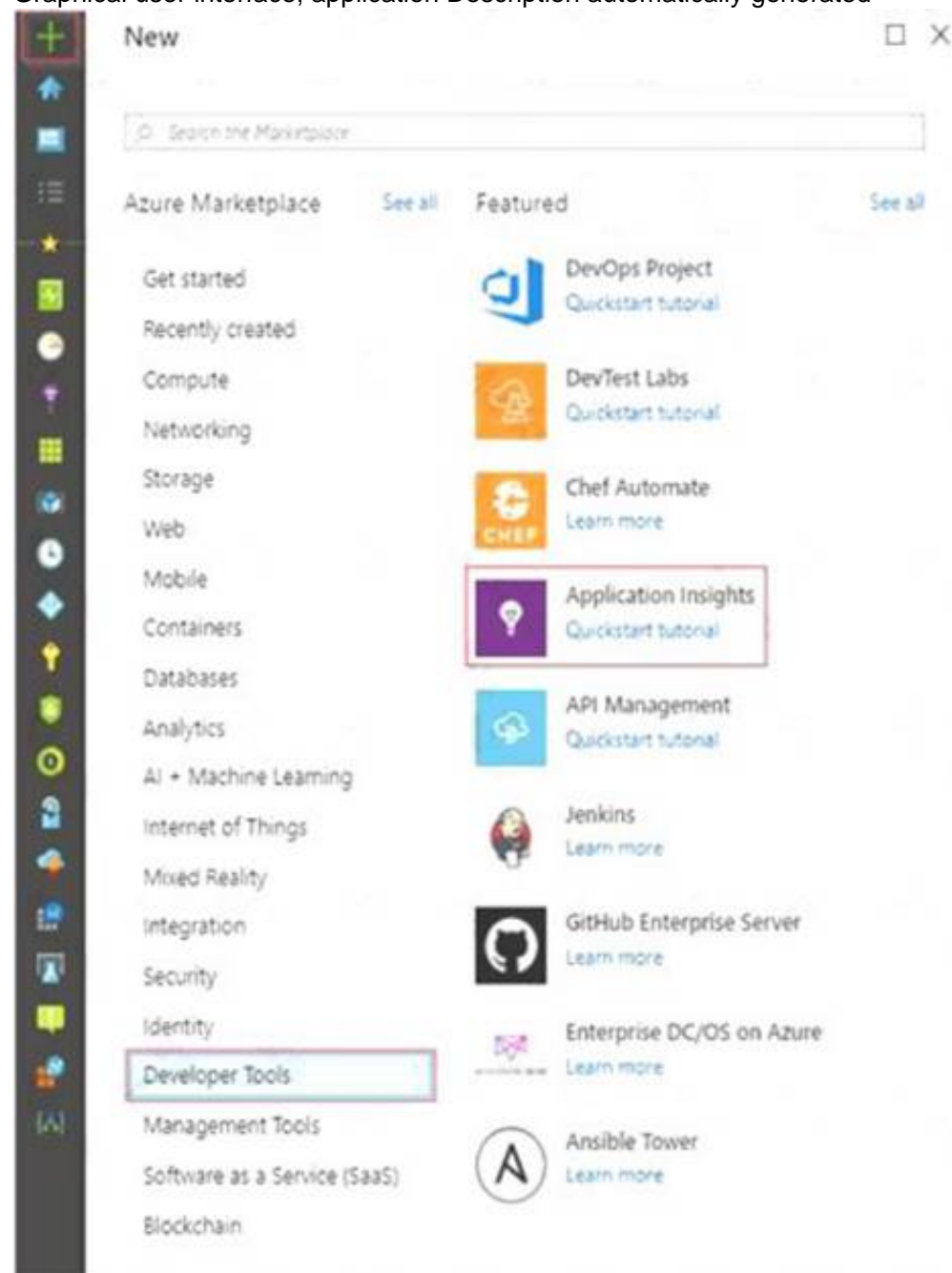
Answer: A

Explanation:

Step 1: Create an instance of Azure Application Insights

- * 1. Open Microsoft Azure Portal
- * 2. Log into your Azure account, Select Create a resource > Developer tools > Application Insights.
- * 3. Enter the following settings, and then select Review + create. Name: az400-9940427-main

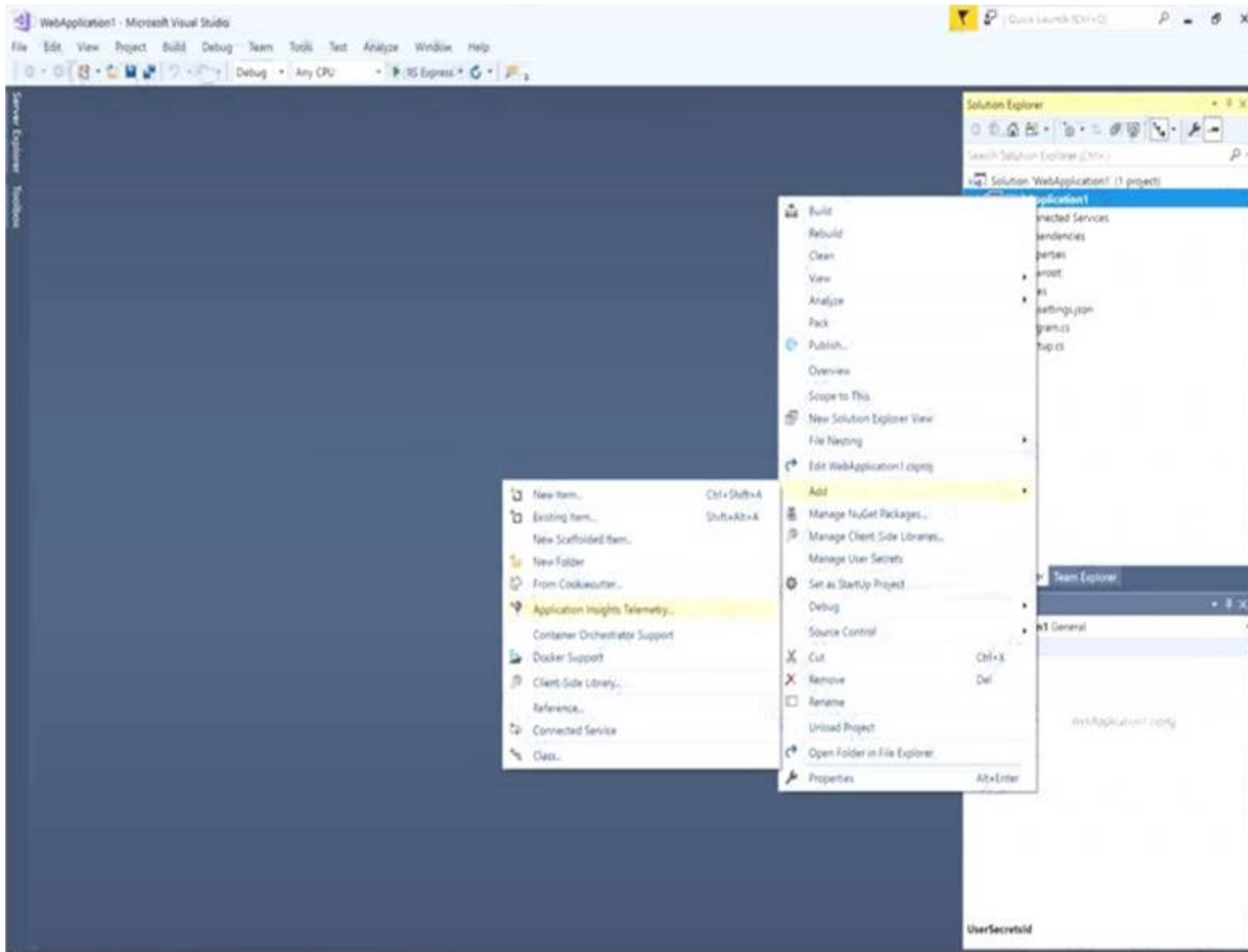
Graphical user interface, application Description automatically generated



Step 2: Configure App Insights SDK

- * 1. Open your ASP.NET Core Web App project in Visual Studio > Right-click on the AppName in the Solution Explorer > Select Add > Application Insights Telemetry.
- * 2. Click the Get Started button
- * 3. Select your account and subscription > Select the Existing resource you created in the Azure portal > Click Register.

Graphical user interface, application Description automatically generated



Reference:

<https://docs.microsoft.com/bs-latn-ba/azure/azure-monitor/learn/dotnetcore-quick-start?view=vs-2017>

NEW QUESTION 84

- (Exam Topic 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 manage a project in Azure DevOps.

You need to prevent the configuration of the project from changing over time. Solution: Implement Continuous Integration for the project.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead implement Continuous Assurance for the project. Reference:

<https://azsk.azurewebsites.net/04-Continous-Assurance/Readme.html>

NEW QUESTION 86

- (Exam Topic 4)

You have an Azure subscription. The subscription contains virtual machines that run either Windows Server or Linux.

You plan to use Prometheus to monitor performance metrics. You need to integrate Prometheus and Azure Monitor.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Install a Prometheus server on a Windows virtual machine in Azure.
- B. On each virtual machine, expose the metrics endpoint.
- C. On each virtual machine, enable the Azure Diagnostics extension.
- D. On each virtual machine, enable the containerized agent for Azure Monitor.
- E. Expose a virtual network service endpoint for Azure Storage.
- F. Install a Prometheus server on a Linux virtual machine in Azure.

Answer: AB

NEW QUESTION 87

- (Exam Topic 4)

You have a pipeline named Pipeline1 in Azure Pipelines.

You need to create a service connection to enable Pipeline1 to download a public container image. Which type of service connection should you create?

- A. a Docker host
- B. Azure Service Fabric

- C. Azure Kubernetes Service (AKS)
- D. a Docker registry

Answer: D

NEW QUESTION 91

- (Exam Topic 4)

You have an Azure DevOps organization named Contoso and an Azure DevOps project named Project1.

You plan to use Microsoft-hosted agents to build container images that will host full Microsoft .NET Framework apps in a YAML pipeline in Project1.

What are two possible virtual machine images that you can use for the Microsoft-hosted agent pool? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. vs2017-win2016
- B. ubuntu-16.04
- C. win1803
- D. macOS-10.13
- E. vs.2015-win2012r2

Answer: AE

Explanation:

<https://github.com/microsoft/azure-pipelines-image-generation/blob/d80f81d6c98f8ce2c74b034309bb774ea8d3> <https://github.com/actions/virtual-environments/blob/master/images/win/Windows2016-Readme.md>

NEW QUESTION 94

- (Exam Topic 4)

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

* 1. Open Microsoft Azure Portal

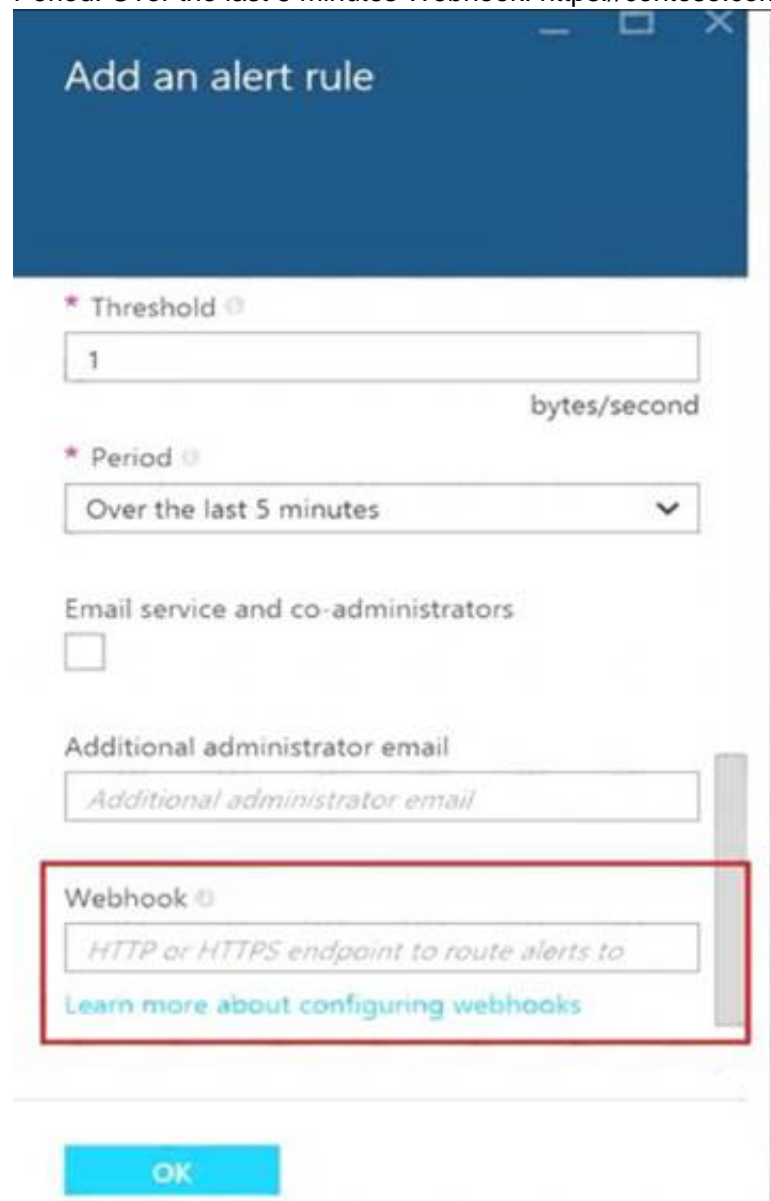
* 2. Log into your Azure account and go to App Service and look under Monitoring then you will see Alert.

* 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



References:

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

NEW QUESTION 97

- (Exam Topic 4)

You need to deploy Azure Kubernetes Service (AKS) to host an application. The solution must meet the following requirements:

- > Containers must only be published internally.
- > AKS clusters must be able to create and manage containers in Azure.

What should you use for each requirement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Containers must only be published internally:

	▼
Azure Container Instances	
Azure Container Registry	
Dockerfile	

AKS clusters must be able to create and manage containers in Azure:

	▼
An Azure Active Directory (Azure AD) group	
An Azure Automation account	
An Azure service principal	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Azure Container Registry

Azure services like Azure Container Registry (ACR) and Azure Container Instances (ACI) can be used and connected from independent container orchestrators like kubernetes (k8s). You can set up a custom ACR and connect it to an existing k8s cluster to ensure images will be pulled from the private container registry instead of the public docker hub.

Box 2: An Azure service principal

When you're using Azure Container Registry (ACR) with Azure Kubernetes Service (AKS), an authentication mechanism needs to be established. You can set up AKS and ACR integration during the initial creation of your AKS cluster. To allow an AKS cluster to interact with ACR, an Azure Active Directory service principal is used.

References:

<https://thorsten-hans.com/how-to-use-private-azure-container-registry-with-kubernetes> <https://docs.microsoft.com/en-us/azure/aks/cluster-container-registry-integration>

NEW QUESTION 98

- (Exam Topic 4)

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?

- A. a personal access token
- B. SAML
- C. GitHub App
- D. OAuth

Answer: C

Explanation:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/repos/github?view=azure-devops&tabs=yaml> <https://developer.github.com/v3/checks/>

NEW QUESTION 102

- (Exam Topic 4)

You have the following Azure policy.

```

if: {
  allOf: [
    (
      "field": "type",
      "equals": "Microsoft.Storage/storageAccounts"
    ),
    (
      "field": "Microsoft.Storage/storageAccounts/supportsHttpsTrafficOnly",
      "notEquals": "true"
    )
  ]
}

```

- A. ensures that at) data for new Azure Storage accounts is encrypted at rest
- B. prevents HTTPS traffic to new Azure Storage accounts when the accounts are accessed over the internet
- C. prevents all HTTP traffic to wasting Azure Storage accounts
- D. ensures that all traffic to new Azure Storage accounts is encrypted

Answer: A

NEW QUESTION 105

- (Exam Topic 4)

You are integrating Azure Pipelines and Microsoft Teams. You install the Azure Pipelines app in Microsoft Teams.

You have an Azure DevOps organization named Contoso that contains a project name Project1. You subscribe to Project1 in Microsoft Teams.

You need to ensure that you only receive events about failed builds in Microsoft Teams. What should you do first?

- A. From Microsoft Teams, run @azure pipelines subscribe <https://dev.azure.com/Contoso/Project1>.
- B. From Azure Pipelines, add a Publish Build Artifacts task to Project1.
- C. From Microsoft Teams, run @azure pipelines subscriptions.
- D. From Azure Pipelines, enable continuous integration for Project1.

Answer: A

Explanation:

To start monitoring all pipelines in a project, use the following command inside a channel:

@azure pipelines subscribe [project url]

The project URL can be to any page within your project (except URLs to pipelines). For example:

@azure pipelines subscribe <https://dev.azure.com/myorg/myproject/> Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/integrations/microsoft-teams>

NEW QUESTION 110

- (Exam Topic 4)

You are evaluating the use of code review assignments in GitHub.

Which two requirements can be met by using code review assignments? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point

- A. Automatically choose and assign reviewers based on a list of available personnel
- B. Automatically choose and assign reviewers based on who has the most completed review requests.
- C. Ensure that each team member reviews an equal number of pull requests during any 30-day period.
- D. Automatically choose and assign reviewers based on who received the least recent review requests.

Answer: AC

NEW QUESTION 114

- (Exam Topic 4)

You have a GitHub Enterprise account.

You need to enable push protection for secret scanning of the account repositories. What should you do first?

- A. Purchase Premium Plus support.
- B. Enforce multi-factor authentication (MFA).
- C. Purchase a GitHub Advanced Security license.
- D. Create an access policy for secrets.

Answer: C

NEW QUESTION 118

- (Exam Topic 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 have an approval process that contains a condition. The condition requires that releases be approved by a team leader before they are deployed.

You have a policy stating that approvals must occur within eight hours.

You discover that deployments fail if the approvals take longer than two hours.

You need to ensure that the deployments only fail if the approvals take longer than eight hours.

Solution: From Pre-deployment conditions, you modify the Timeout setting for pre-deployment approvals. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a gate instead of an approval instead.

References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/release/approvals/gates>

NEW QUESTION 121

- (Exam Topic 4)

Your company is concerned that when developers introduce open source libraries, it creates licensing compliance issues.

You need to add an automated process to the build pipeline to detect when common open source libraries are added to the code base.

What should you use?

- A. PDM
- B. OWASPZAP
- C. WhiteSource
- D. Jenkins

Answer: C

NEW QUESTION 123

- (Exam Topic 4)

You have an Azure DevOps organization named Contoso that contains a project named Project 1. You provision an Azure key vault name Keyvault1. You need to reference Keyvault1 secrets in a build pipeline of Project1. What should you do first?

- A. Create an XAML build service.
- B. Create a variable group in Project1.
- C. Add a secure file to Project1.
- D. Configure the security policy of Contoso.

Answer: B

Explanation:

Before this will work, the build needs permission to access the Azure Key Vault. This can be added in the Azure Portal. Open the Access Policies in the Key Vault and add a new one. Choose the principle used in the DevOps build. Reference: <https://docs.microsoft.com/en-us/azure/devops/pipelines/release/azure-key-vault>

NEW QUESTION 127

- (Exam Topic 4)

You have multi-tier application that has an Azure Web Apps front end and an Azure SQL Database back end. You need to recommend a solution to capture and store telemetry data. The solution must meet the following requirements:

- Support using ad-hoc queries to identify baselines.
- Trigger alerts when metrics in the baseline are exceeded.
- Store application and database metrics in a central location. What should you include in the recommendation?

- A. Azure Application Insights
- B. Azure SQL Database Intelligent Insights
- C. Azure Event Hubs
- D. Azure Log Analytics

Answer: A

Explanation:

Azure Platform as a Service (PaaS) resources, like Azure SQL and Web Sites (Web Apps), can emit performance metrics data natively to Log Analytics. The Premium plan will retain up to 12 months of data, giving you an excellent baseline ability. There are two options available in the Azure portal for analyzing data stored in Log analytics and for creating queries for ad hoc analysis. References: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/collect-azurepass-posh>

NEW QUESTION 131

- (Exam Topic 4)

Your company uses the following resources:

- Windows Server 2019 container images hosted in an Azure Container Registry
- Azure virtual machines that run the latest version of Ubuntu An Azure
- Log Analytics workspace Azure Active Directory (Azure AD)
- 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

Answer: CE

Explanation:

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

NEW QUESTION 134

- (Exam Topic 4)

You have an Azure subscription that contains resources in several resource groups.

You need to design a monitoring strategy that will provide a consolidated view. The solution must support the following requirements:

- Support role-based access control (RBAC) by using Azure Active Directory (Azure AD) identities.
- Include visuals from Azure Monitor that are generated by using the Kusto query language.
- Support documentation written in markdown.
- Use the latest data available for each visual.

What should you use to create the consolidated view?

- A. Azure Data Explorer
- B. Azure dashboards
- C. Azure Monitor
- D. Microsoft Power BI

Answer: A

Explanation:

There are several tools available for running queries in Azure Data Explorer, including Kusto.

Kusto uses a role-based access control (RBAC) model, under which authenticated principals are mapped to roles, and get access according to the roles they're assigned.

Note: Azure Data Explorer is a highly scalable and secure analytics service that enables you to do rich exploration of structured and unstructured data for instant insights. Optimized for ad-hoc queries, Azure Data Explorer enables rich data exploration over raw, structured, and semi-structured data delivering fast time to insight. Query with a modern, intuitive query language that offers fast, ad-hoc, and advanced query capabilities over high-rate data volumes and varieties

Reference:

<https://docs.microsoft.com/en-us/azure/data-explorer/tools-integrations-overview>

NEW QUESTION 137

- (Exam Topic 4)

You manage an Azure web app that supports an e-commerce website.

You need to increase the logging level when the web app exceeds normal usage patterns. The solution must minimize administrative overhead.

Which two resources should you include in the solution? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. an Azure Monitor alert that has a dynamic threshold
- B. an Azure Automation runbook
- C. an Azure Monitor alert that uses an action group that has an email action
- D. the Azure Monitor autoscale settings
- E. an Azure Monitor alert that has a static threshold

Answer: BC

NEW QUESTION 141

- (Exam Topic 4)

Your company is building a new web application.

You plan to collect feedback from pilot users on the features being delivered.

All the pilot users have a corporate computer that has Google Chrome and the Microsoft Test & Feedback extension installed. The pilot users will test the application by using Chrome.

You need to identify which access levels are required to ensure that developers can request and gather feedback from the pilot users. The solution must use the principle of least privilege.

Which access levels in Azure DevOps should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Developers:

Pilot users:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: Basic

Assign Basic to users with a TFS CAL, with a Visual Studio Professional subscription, and to users for whom you are paying for Azure Boards & Repos in an organization.

Box 2: Stakeholder

Assign Stakeholders to users with no license or subscriptions who need access to a limited set of features. Note:

You assign users or groups of users to one of the following access levels:

Basic: provides access to most features

VS Enterprise: provides access to premium features

Stakeholders: provides partial access, can be assigned to unlimited users for free Reference:

<https://docs.microsoft.com/en-us/azure/devops/organizations/security/access-levels?view=vsts>

NEW QUESTION 146

- (Exam Topic 4)

You have a project in Azure DevOps.

You create the following YAML template named Template1.yml. steps:

- script: npm install
- script: yarn install
- script: npm run compile

You create the following pipeline named File1.yml. parameters:

usersteps:

- task: MyTask@1
- script: echo Done

You need to ensure that Template1.yml runs before File1.yml. How should you update File1.yml?

- A. parameters: usersteps: extends: template: template1.yml- task: MyTask@1 - script: echo Done
- B. template: template1.yml parameters: usersteps:- task: MyTask@1 - script: echo Done
- C. extends: template: template1.yml parameters: usersteps:- task: MyTask@1 - script: echo Done
- D. parameters: usersteps: - template: template1.yml- task: MyTask@1 - script: echo Done

Answer: C

Explanation:

Azure Pipelines offers two kinds of templates: includes and extends. Included templates behave like #include in C++: it's as if you paste the template's code right into the outer file, which references it. To continue the C++ metaphor, extends templates are more like inheritance: the template provides the outer structure of the pipeline and a set of places where the template consumer can make targeted alterations.

Example: extends:

template: template.yml@templates parameters:

usersteps:

- script: echo This is my first step

- script: echo This is my second step Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/security/templates>

NEW QUESTION 149

- (Exam Topic 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 plan to create a release pipeline that will deploy Azure resources by using Azure Resource Manager templates. The release pipeline will create the following resources:

Two resource groups

Four Azure virtual machines in one resource group Two Azure SQL databases in other resource group

You need to recommend a solution to deploy the resources.

Solution: Create a single standalone template that will deploy all the resources. Does this meet the goal?

A. Yes

B. No

Answer: A

Explanation:

Use two templates, one for each resource group, and link the templates. References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-linked-templates>

NEW QUESTION 150

- (Exam Topic 4)

You have an Azure DevOps project that contains a build pipeline. The build pipeline uses approximately 50 open source libraries.

You need to ensure that all the open source libraries comply with your company's licensing standards. Which service should you use?

A. NuGet

B. Maven

C. Black Duck

D. Helm

Answer: C

Explanation:

Secure and Manage Open Source Software

Black Duck helps organizations identify and mitigate open source security, license compliance and code-quality risks across application and container portfolios.

Black Duck Hub and its plugin for Team Foundation Server (TFS) allows you to automatically find and fix open source security vulnerabilities during the build process, so you can proactively manage risk. The integration allows you to receive alerts and fail builds when any Black Duck Hub policy violations are met.

Note: WhiteSource would also be a good answer, but it is not an option here. Reference:

<https://marketplace.visualstudio.com/items?itemName=black-duck-software.hub-tfs>

NEW QUESTION 153

- (Exam Topic 4)

You need to recommend a Docker container build strategy that meets the following requirements

- Minimizes image sizes
- Minimizes the security surface area of the final image What should you include in the recommendation?

A. multi-stage builds

B. single-stage builds

C. PowerShell Desired State Configuration (DSC)

D. Docker Swarm

Answer: A

Explanation:

Multi-stage builds are a new feature requiring Docker 17.05 or higher on the daemon and client. Multistage builds are useful to anyone who has struggled to optimize Dockerfiles while keeping them easy to read and maintain.

References: <https://docs.docker.com/develop/develop-images/multistage-build/>

NEW QUESTION 158

- (Exam Topic 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 have an approval process that contains a condition. The condition requires that releases be approved by a team leader before they are deployed.

You have a policy stating that approvals must occur within eight hours.

You discover that deployment fail if the approvals take longer than two hours.

You need to ensure that the deployments only fail if the approvals take longer than eight hours. Solution: From Pre-deployment conditions, you modify the Time between re-evaluation of gates option. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/release/approvals/gates>

NEW QUESTION 163

- (Exam Topic 4)

You use Azure Pipelines to automate Continuous Integration/Continuous Deployment (CI/CD) for an Azure web app named WebApp1.

You configure an Azure Monitor alert that is triggered when WebApp1 generates an error.

You need to configure the alert to forward details of the error to a third-party system. The solution must minimize administrative effort.

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.

Actions

Answer Area

Select the Recurrence trigger.

Create an Azure event hub.

Create an Azure logic app.

Select the HTTP request trigger.

Update the action group in Azure Monitor.

Select the Sliding Window trigger.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: Create an Azure logic app.

Box 2: Select the HTTP request trigger.

Box 3: Updated the action group in Azure Monitor. Reference:

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

NEW QUESTION 164

- (Exam Topic 4)

Your company develops an app for OS. All users of the app have devices that are members of a private distribution group in Microsoft Visual Studio App Center.

You plan to distribute a new release of the app.

You need to identify which certificate file you require to distribute the new release from App Center. Which file type should you upload to App Center?

- A. .cer
- B. .pvk
- C. .pfx
- D. .p12

Answer: D

Explanation:

A successful IOS device build will produce an ipa file. In order to install the build on a device, it needs to be signed with a valid provisioning profile and certificate.

To sign the builds produced from a branch, enable code signing in the configuration pane and upload a provisioning profile (.mobileprovision) and a valid certificate (.p12), along with the password for the certificate.

References:

<https://docs.microsoft.com/en-us/appcenter/build/xamarin/ios/>

NEW QUESTION 165

- (Exam Topic 4)
You have an Azure web app named Webapp1.
You need to use an Azure Monitor query to create a report that details the top 10 pages of Webapp1 that failed.
How should you complete the query? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

exceptions

pageViews

requests

traces

| where

duration == 0

itemType == "availabilityResult"

resultCode == "200"

success == false

| summarize failedCount=sum(itemCount) by name, resultCode

| top 10 by failedCount desc

| render barchart

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
Box 1: requests
Failed requests (requests/failed):
The count of tracked server requests that were marked as failed. Kusto code:
requests
| where success == 'False' Box 2: success == false Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/app-insights-metrics

NEW QUESTION 167

- (Exam Topic 4)
You use Git for source control.
You delete a file, commit the changes, and continue to work. You need to recover the deleted file.
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.

Commands

git restore path/to/file

git log

git commit -m 'undeleated the file'

git checkout [hash]=1 -- path/to/file

git stash

git tag

Answer Area

>

<

^

v

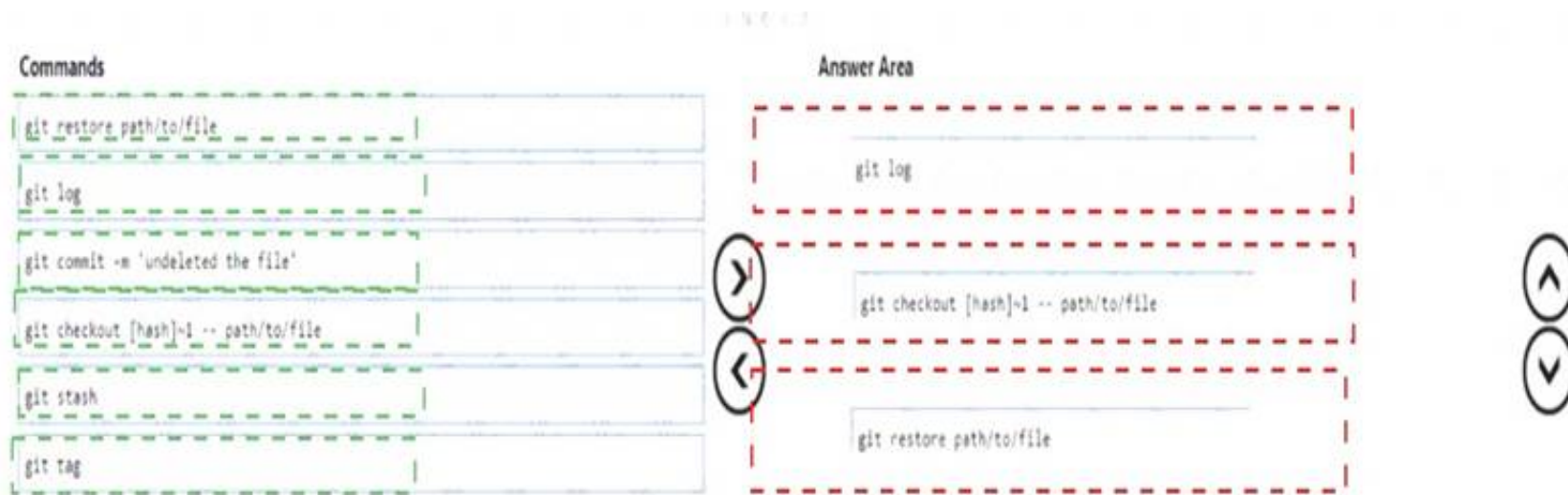
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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NEW QUESTION 172

- (Exam Topic 4)

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. an External Git service connection
- B. a Microsoft hosted agent
- C. service hooks
- D. a self-hosted agent
- E. a deployment M group

Answer: AD

Explanation:

When a pipeline uses a remote, 3rd-party repository host such as Bitbucket Cloud, the repository is configured with webhooks that notify Azure Pipelines Server or TFS when code has changed and a build should be triggered. Since on-premises installations are normally protected behind a firewall, 3rd-party webhooks are unable to reach the on-premises server. As a workaround, you can use the External Git repository type which uses polling instead of webhooks to trigger a build when code has changed.

References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/repos/pipeline-options-for>

NEW QUESTION 174

- (Exam Topic 4)

You are designing a configuration management solution to support five apps hosted on Azure App Service. Each app is available in the following three environments: development, test, and production.

You need to recommend a configuration management solution that meets the following requirements:

- Supports feature flags
- Tracks configuration changes from the past 30 days
- Stores hierarchically structured configuration values
- Controls access to the configurations by using role-based access control (RBAC) permission
- Stores shared values as key/value pairs that can be used by all the apps

Which Azure service should you recommend as the configuration management solution?

- A. Azure Cosmos DB
- B. Azure App Service
- C. Azure App Configuration
- D. Azure Key Vault

Answer: C

Explanation:

The Feature Manager in the Azure portal for App Configuration provides a UI for creating and managing the feature flags that you use in your applications.

App Configuration offers the following benefits:

- A fully managed service that can be set up in minutes
- Flexible key representations and mappings
- Tagging with labels
- Point-in-time replay of settings
- Dedicated UI for feature flag management
- Comparison of two sets of configurations on custom-defined dimensions
- Enhanced security through Azure-managed identities
- Encryption of sensitive information at rest and in transit
- Native integration with popular frameworks

App Configuration complements Azure Key Vault, which is used to store application secrets. Reference:

<https://docs.microsoft.com/en-us/azure/azure-app-configuration/overview>

NEW QUESTION 177

- (Exam Topic 4)

You have an Azure Automation account that contains a runbook. The runbook is used to configure the application infrastructure of an Azure subscription. You have a project in Azure DevOps named Project1. Project1 contains a repository that stores code for the runbook. You need to ensure that every committed change to the code will update automatically and publish the runbook to Azure Automation. What should you configure?

- A. the Connections settings for the Automation account
- B. the Service hooks settings for Project1
- C. the Source control settings for the Automation account
- D. the Service connections settings for Project1

Answer: C

NEW QUESTION 180

- (Exam Topic 4)

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?

- A. 1
- B. 3
- C. 4
- D. 7

Answer: C

Explanation:

<https://github.com/dotnet/dotnet-docker/blob/master/samples/dotnetapp/README.md>

NEW QUESTION 181

- (Exam Topic 4)

You are configuring an Azure DevOps deployment pipeline. The deployed application will authenticate to a web service by using a secret stored in an Azure key vault.

You need to use the secret in the deployment pipeline.

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.

Actions

Add an app registration in Azure Active Directory (Azure AD).

Configure an access policy in the key vault.

Export a certificate from the key vault.

Add an Azure Resource Manager service connection to the pipeline.

Generate a self-signed certificate.

Create a service principal in Azure Active Directory (Azure AD).

>

<

Answer Area

↑

↓

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Creating a service principal
 Creating a key vault
 Check the Azure Pipeline

NEW QUESTION 183

- (Exam Topic 4)

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 answer selection is worth one point

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

Answer: ABE

Explanation:

References:

<https://blogs.msdn.microsoft.com/devops/2017/04/25/vsts-visual-studio-team-services-integration-with-jenkins/>

[http://](http://www.aisoftwarellc.com/blog/post/how-to-setup-automated-builds-using-jenkins-and-visual-studio-team-foundat)

www.aisoftwarellc.com/blog/post/how-to-setup-automated-builds-using-jenkins-and-visual-studio-team-foundat

NEW QUESTION 186

- (Exam Topic 4)

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
DF1	Azure Data Factory
SQL1	Azure SQL Database
KV1	Azure Key Vault

You plan to create a linked service in DF1. The linked service will connect to SQL1 by using Microsoft SQL Server authentication. The password for the SQL Server login will be stored in KV1.

You need to configure DF1 to retrieve the password when the data factory connects to SQL1. The solution must use the principle of least privilege.

How should you configure DF1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Permission type:

Key
Secret
Certificate

Access method:

Access policy
Service endpoint policy
Role-based access control (RBAC)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Secret

Store credential in Azure Key Vault by reference secret stored in key vault. To reference a credential stored in Azure Key Vault, you need to:

- > Retrieve data factory managed identity
- > Grant the managed identity access to your Azure Key Vault. In your key vault -> Access policies -> Add Access Policy, search this managed identity to grant Get permission in Secret permissions dropdown. It allows this designated factory to access secret in key vault.
- > Create a linked service pointing to your Azure Key Vault.
- > Create data store linked service, inside which reference the corresponding secret stored in key vault.

Box 2: Access policy Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/store-credentials-in-key-vault>

NEW QUESTION 187

- (Exam Topic 4)

Your company plans to deploy an application to the following endpoints:

- > Ten virtual machines hosted in Azure
- > Ten virtual machines hosted in an on-premises data center environment All the virtual machines have the Azure Pipelines agent.

You need to implement a release strategy for deploying the application to the endpoints.

What should you recommend using to deploy the application to the endpoints? To answer, drag the appropriate components to the correct endpoints. Each component 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.

Components	Answer Area
A deployment group	
A management group	Ten virtual machines hosted in Azure: <input type="text"/>
A resource group	Ten virtual machines hosted in an on-premises data center environment: <input type="text"/>
Application roles	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: A deployment group
When authoring an Azure Pipelines or TFS Release pipeline, you can specify the deployment targets for a job using a deployment group.
If the target machines are Azure VMs, you can quickly and easily prepare them by installing the Azure Pipelines Agent Azure VM extension on each of the VMs, or by using the Azure Resource Group Deployment task in your release pipeline to create a deployment group dynamically.
Box 2: A deployment group
References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/release/deployment-groups>

NEW QUESTION 190

- (Exam Topic 4)
Your company has a project in Azure DevOps for a new application. The application will be deployed to several Azure virtual machines that run Windows Server 2016.
You need to recommend a deployment strategy for the virtual machines. The strategy must meet the following requirements:

- Ensure that the virtual machines maintain a consistent configuration.
- Minimize administrative effort to configure the virtual machines What should you include in the recommendation?

- A. Deployment YAML and Azure pipeline stage templates
- B. Azure Resource Manager templates and the Custom Script Extension for Windows
- C. Azure Resource Manager templates and the PowerShell Desired State Configuration (DSC) extension for Windows
- D. Deployment YAML and Azure pipeline deployment groups

Answer: C

Explanation:

The Custom Script Extension downloads and executes scripts on Azure virtual machines. This extension is useful for post deployment configuration, software installation, or any other configuration or management tasks. Scripts can be downloaded from Azure storage or GitHub, or provided to the Azure portal at extension run time. The Custom Script Extension integrates with Azure Resource Manager templates, and can be run using the Azure CLI, PowerShell, Azure portal, or the Azure Virtual Machine REST API.
References:
<https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/custom-script-windows>

NEW QUESTION 194

- (Exam Topic 4)
You have a project in Azure DevOps named Project1 that has a release pipeline in Azure Pipeline named ReleaseP1.
you need to ensure that when a new release is generated for ReleaseP1, a new release note document is created. The release notes must contain new features and bug fixes.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the Most of actions to the answer area and arrange them r 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

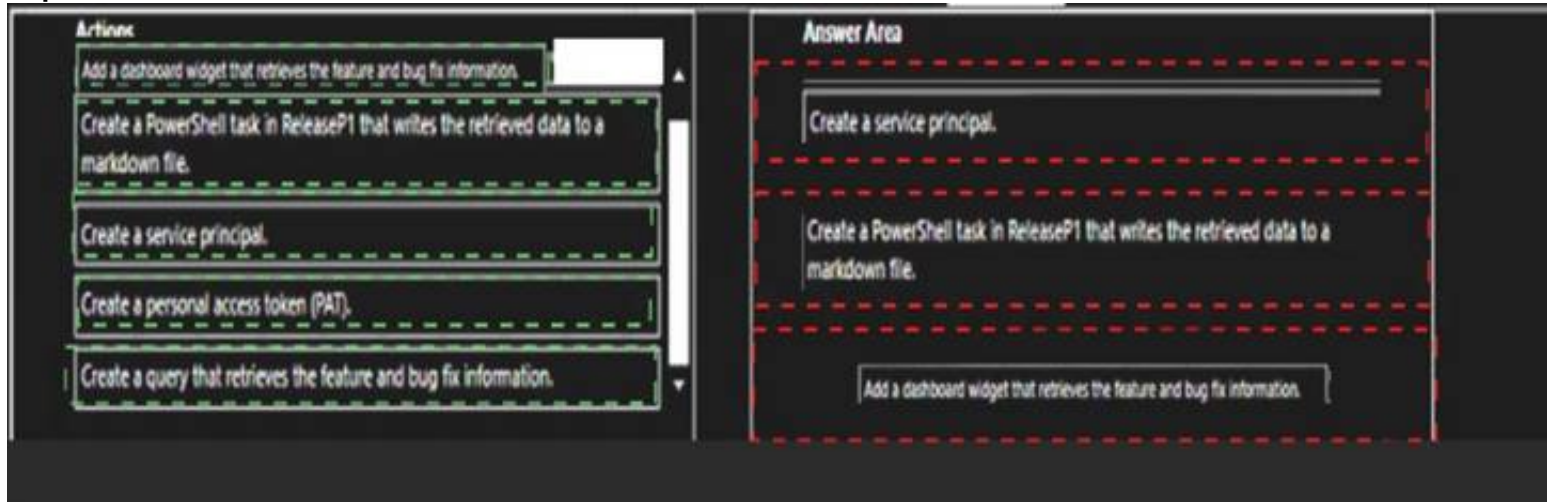
Artifacts	Answer Area
Add a dashboard widget that retrieves the feature and bug fix information.	
Create a PowerShell task in ReleaseP1 that writes the retrieved data to a markdown file.	
Create a service principal.	
Create a personal access token (PAT).	
Create a query that retrieves the feature and bug fix information.	

- A. Mastered

B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 197

- (Exam Topic 4)

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

Your company has a team of 500 developers. New members are added continual lo the team You need to automate me management of users and licenses whenever possible

Which task must you perform manually?

- A. modifying group memberships
- B. procuring licenses
- C. adding users
- D. assigning entitlements

Answer: B

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/migrate-to-group-based-resource-manage> <https://docs.microsoft.com/en-us/rest/api/azure/devops/memberentitlementmanagement/?view=azure-devops-res>

NEW QUESTION 202

- (Exam Topic 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.

Your company uses Azure DevOps to manage the build and release processes for applications. You use a Git repository for applications source control.

You need to implement a pull request strategy that reduces the history volume in the master branch. Solution: You implement a pull request strategy that uses squash merges.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 205

- (Exam Topic 4)

You manage build and release pipelines by using Azure DevOps. Your entire managed environment resides in Azure.

You need to configure a service endpoint for accessing Azure Key Vault secrets. The solution must meet the following requirements:

- Ensure that the secrets are retrieved by Azure DevOps.
- Avoid persisting credentials and tokens in Azure DevOps.

How should you configure the service endpoint? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Service connection type:

	▼
Azure Resource Manager	
Generic service	
Team Foundation Server / Azure Pipelines service connection	

Authentication/authorization method for the connection:

	▼
Azure Active Directory OAuth 2.0	
Grant authorization	
Managed Service Identity Authentication	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Azure Pipelines service connection

Box 2: Managed Service Identity Authentication

The managed identities for Azure resources feature in Azure Active Directory (Azure AD) provides Azure services with an automatically managed identity in Azure AD. You can use the identity to authenticate to any service that supports Azure AD authentication, including Key Vault, without any credentials in your code.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/deploy/azure-key-vault> <https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

NEW QUESTION 207

- (Exam Topic 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 plan to create a release pipeline that will deploy Azure resources by using Azure Resource Manager templates. The release pipeline will create the following resources:

- > Two resource groups
- > Four Azure virtual machines in one resource group
- > Two Azure SQL databases in other resource group

You need to recommend a solution to deploy the resources.

Solution: Create a main template that has two linked templates, each of which will deploy the resource in its respective group.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

To deploy your solution, you can use either a single template or a main template with many related templates. The related template can be either a separate file that is linked to from the main template, or a template that is nested within the main template.

References: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-linked-templates>

NEW QUESTION 208

- (Exam Topic 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

Answer: A

Explanation:

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>

NEW QUESTION 211

- (Exam Topic 4)

You manage projects by using Azure Boards.

You have a current work item name itemA that is dependant on a work item named item3. You need to define the dependency for itemA.

What should you do in the web portal for Azure DevOps?

- A. From Backlogs, open the context menu, select Add link and then select item3. Set Link type to Related and add the ID of itemA
- B. From itemA open the Links tab, and then select Add lin
- C. Set Link type to Successor and add the ID of itemB.
- D. From Queries, open the context menu, select Add link, and then select Existing ite
- E. Set Link type to Affected By and add the ID of itemB.
- F. From itemA, open the Links tab, and then select Add lin
- G. Set Link type to References and add the ID Of itemB.

Answer: B

NEW QUESTION 212

- (Exam Topic 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.

The lead developer at your company reports that adding new application features takes longer than expected due to a large accumulated technical debt.

You need to recommend changes to reduce the accumulated technical debt. Solution: You recommend reducing the code coupling and the dependency cycles?

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead reduce the code complexity.

Note: Technical debt is the accumulation of sub-optimal technical decisions made over the lifetime of an application. Eventually, it gets harder and harder to change things: it's the 'sand in the gears' that sees IT initiatives grind to a halt.

Reference:

<https://dzone.com/articles/fight-through-the-pain-how-to-deal-with-technical> <https://www.devopsgroup.com/blog/five-ways-devops-helps-with-technical-debt/>

NEW QUESTION 216

- (Exam Topic 4)

Your team uses Azure Pipelines to deploy applications.

You need to ensure that when a failure occurs during the build or release process, all the team members are notified by using Microsoft Teams. The solution must minimize development effort.

What should you do?

- A. Install the Azure Boards app for Teams and configure a subscription to receive notifications in a channel.
- B. Use Azure Automation to connect to the Azure DevOps REST API and notify the team members.
- C. Use an Azure function to connect to the Azure DevOps REST API and notify the team members.
- D. Install the Azure Pipelines app for Teams and configure a subscription to receive notifications in a channel.

Answer: D

NEW QUESTION 219

- (Exam Topic 4)

Your company hosts a web application in Azure. The company uses Azure Pipelines for the build and release management of the application.

Stakeholders report that the past few releases have negatively affected system performance. You configure alerts in Azure Monitor.

You need to ensure that new releases are only deployed to production if the releases meet defined performance baseline criteria in the staging environment first.

What should you use to prevent the deployment of releases that fall to meet the performance baseline?

- A. an Azure Scheduler job
- B. a trigger
- C. a gate
- D. an Azure function

Answer: C

Explanation:

Scenarios and use cases for gates include:

➤ Quality validation. Query metrics from tests on the build artifacts such as pass rate or code coverage and deploy only if they are within required thresholds.

Use Quality Gates to integrate monitoring into your pre-deployment or post-deployment. This ensures that you are meeting the key health/performance metrics (KPIs) as your applications move from dev to production and any differences in the infrastructure environment or scale is not negatively impacting your KPIs.

Note: Gates allow automatic collection of health signals from external services, and then promote the release when all the signals are successful at the same time or stop the deployment on timeout. Typically, gates are used in connection with incident management, problem management, change management, monitoring, and external approval systems.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/continuous-monitoring> <https://docs.microsoft.com/en-us/azure/devops/pipelines/release/approvals/gates?view=azure-devops>

NEW QUESTION 224

- (Exam Topic 4)

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

Answer: B

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.

NEW QUESTION 229

- (Exam Topic 4)

You plan to deploy a runbook that will create Azure AD user accounts.

You need to ensure that runbooks can run the Azure PowerShell cmdlets for Azure Active Directory. To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Azure Automation now ships with the Azure PowerShell module of version 0.8.6, which introduced the ability to non-interactively authenticate to Azure using OrgId (Azure Active Directory user) credential-based authentication. Using the steps below, you can set up Azure Automation to talk to Azure using this authentication type.

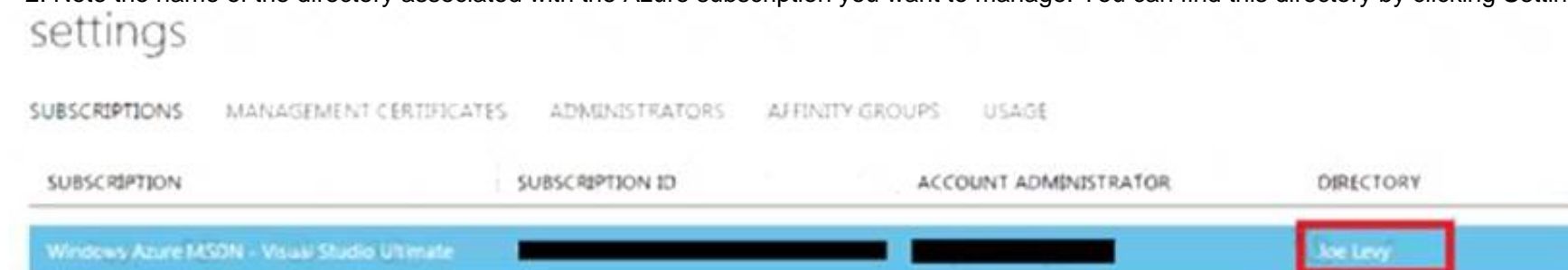
Step 1: Find the Azure Active Directory associated with the Azure subscription to manage:

* 1. Log in to the Azure portal as the service administrator for the Azure subscription you want to manage using

Azure Automation. You can find this user by logging in to the Azure portal as any user with access to this Azure subscription, then clicking Settings, then Administrators.



* 2. Note the name of the directory associated with the Azure subscription you want to manage. You can find this directory by clicking Settings, then Subscriptions.



Step 2: Create an Azure Active Directory user in the directory associated with the Azure subscription to manage:

You can skip this step if you already have an Azure Active Directory user in this directory. and plan to use this OrgId to manage Azure.

* 1. In the Azure portal click on Active Directory service.



- * 2. Click the directory name that is associated with this Azure subscription.
- * 3. Click on the Users tab and then click the Add User button.
- * 4. For type of user, select "New user in your organization." Enter a username for the user to create.
- * 5. Fill out the user's profile. For role, pick "User." Don't enable multi-factor authentication. Multi-factor accounts cannot be used with Azure Automation.
- * 6. Click Create.
- * 7. Jot down the full username (including part after @ symbol) and temporary password. Step 3: Allow this Azure Active Directory user to manage this Azure subscription.
- * 1. Click on Settings (bottom Azure tab under StorSimple)



- * 2. Click Administrators
 - * 3. Click the Add button. Type the full user name (including part after @ symbol) of the Azure Active Directory user you want to set up to manage Azure. For subscriptions, choose the Azure subscriptions you want this user to be able to manage. Click the check mark.
- Step 4: Configure Azure Automation to use this Azure Active Directory user to manage this Azure subscription
- Create an Azure Automation credential asset containing the username and password of the Azure Active Directory user that you have just created. You can create a credential asset in Azure Automation by clicking into an Automation Account and then clicking the Assets tab, then the Add Setting button.

Note: Once you have set up the Azure Active Directory credential in Azure and Azure Automation, you can now manage Azure from Azure Automation runbooks using this credential.

References:

<https://azure.microsoft.com/sv-se/blog/azure-automation-authenticating-to-azure-using-azure-active-directory/>

NEW QUESTION 232

- (Exam Topic 4)

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, application Description automatically generated

Box 1: Reader

Members of the Reader role can view the organization agent pool as well as agents. You typically use this to add operators that are responsible for monitoring the agents and their health.

Box 2: Service account

Members of the Service account role can use the organization agent pool to create a project agent pool in a project. If you follow the guidelines above for creating new project agent pools,

you typically do not have to add any members here. Reference:

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

NEW QUESTION 236

- (Exam Topic 4)

You need to find and isolate shared code. The shared code will be maintained in a series of packages.

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.

Actions

Group the related components.

Assign ownership to each component group.

Create a dependency graph for the application.

Identify the most common language used.

Rewrite the components in the most common language.

Answer Area

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Step 1: Create a dependency graph for the application

By linking work items and other objects, you can track related work, dependencies, and changes made over time. All links are defined with a specific link type. For example, you can use Parent/Child links to link work items to support a hierarchical tree structure. Whereas, the Commit and Branch link types support links between work items and commits and branches, respectively.

Step 2: Group the related components.

Packages enable you to share code across your organization: you can compose a large product, develop multiple products based on a common shared framework, or create and share reusable components and libraries.

Step 3: Assign ownership to each component graph References:

<https://docs.microsoft.com/en-us/azure/devops/boards/queries/link-work-items-support-traceability?view=azure-> <https://docs.microsoft.com/en-us/visualstudio/releases/tfs2017-relnotes>

NEW QUESTION 241

- (Exam Topic 4)

You have an Azure DevOps project that contains a build pipeline. The build pipeline uses approximately 50 open source libraries.

You need to ensure that the project can be scanned for known security vulnerabilities in the open source libraries.

What should you do? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Object to create:

A build task

A deployment task

An artifacts repository

Service to use:

WhiteSource Bolt

Bamboo

CMake

Chef

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Box 1: A Build task Trigger a build

You have a Java code provisioned by the Azure DevOps demo generator. You will use WhiteSource Bolt extension to check the vulnerable components present in this code.

- Go to Builds section under Pipelines tab, select the build definition WhiteSourceBolt and click on Queue to trigger a build.
- To view the build in progress status, click on ellipsis and select View build results.

Box 2: WhiteSource Bolt

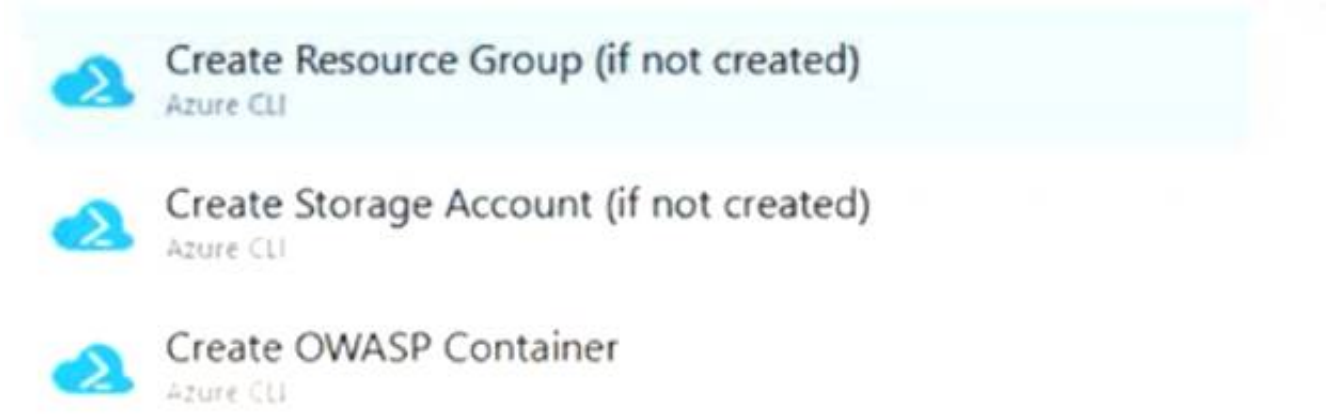
WhiteSource is the leader in continuous open source software security and compliance management. WhiteSource integrates into your build process, irrespective of your programming languages, build tools, or development environments. It works automatically, continuously, and silently in the background, checking the security, licensing, and quality of your open source components against WhiteSource constantly-updated denitive database of open source repositories.

References: <https://www.azuredevopslabs.com/labs/vstsextend/whitesource/>

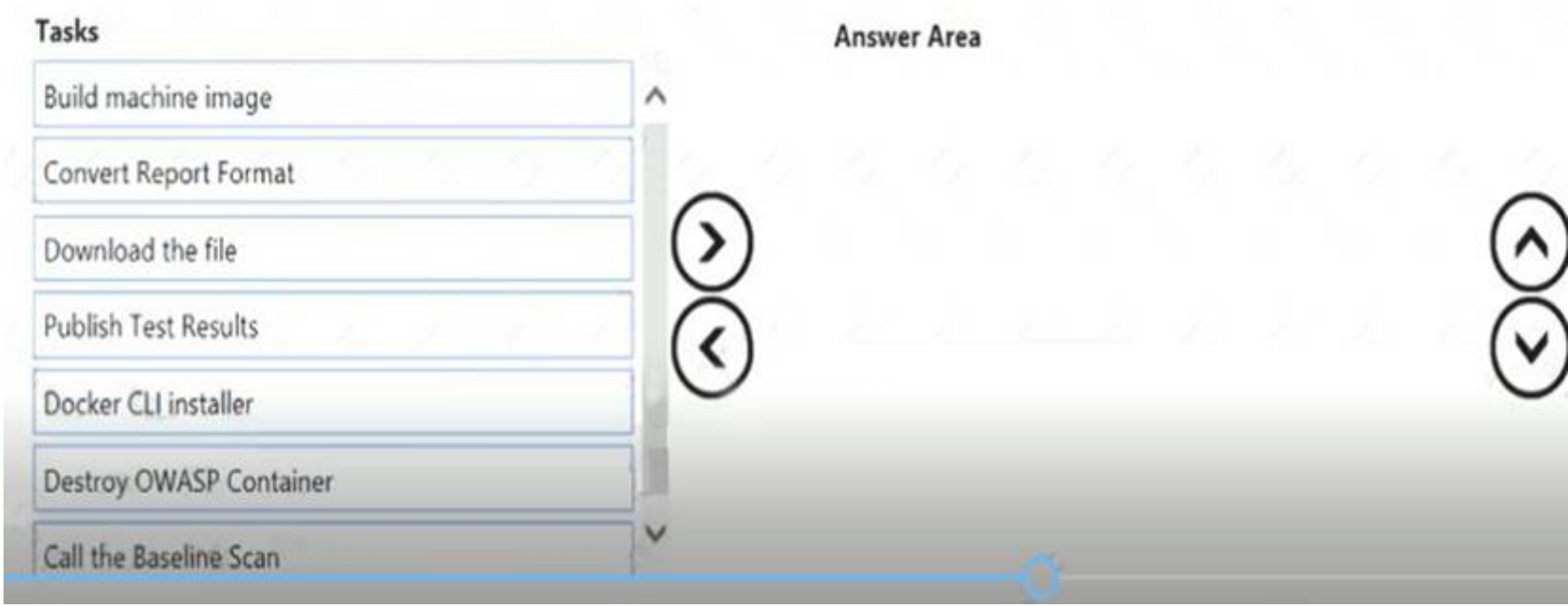
NEW QUESTION 244

- (Exam Topic 4)

You have an Azure DevOps release pipeline as shown in the following exhibit.



You need to complete the pipeline to configure OWASP ZAP for security testing. Which five Azure CLI tasks should you add in sequence? To answer, move the tasks from the list of tasks to the answer area and arrange them in the correct order.



























- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Defining the Release Pipeline
Once the application portion of the Release pipeline has been configured, the security scan portion can be defined. In our example, this consists of 8 tasks, primarily using the Azure CLI task to create and use the ACI instance (and supporting structures). Otherwise specified, all the Azure CLI tasks are Inline tasks, using the default configuration options.

	Create Resource Group (if not created) Azure CLI		
	Create Storage Account (if not created) Azure CLI		
	Create OWASP Container Azure CLI		
	Call the Baseline Scan Azure CLI		
	Download the file Azure CLI		
	Convert Report Format PowerShell		
	Publish Test Results Publish Test Results		
	Destroy OWASP Container Azure CLI		

Reference:

<https://devblogs.microsoft.com/premier-developer/azure-devops-pipelines-leveraging-owasp-zap-in-the-release>

NEW QUESTION 245

- (Exam Topic 4)

You need to configure access to Azure DevOps Agent pools to meet the forwarding requirements:

- Use a project agent pool when authoring build 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 0e%Oos organization and the project? To answer, drag the appropriate role membership 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 content

NOTE: Each correct selection is worth one point.

Roles	Answer Area
<div>Administrator</div>	
<div>Reader</div>	Organization: <input type="text"/>
<div>Service Account</div>	Project: <input type="text"/>
<div>User</div>	

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

project level role: UserOrganization level role: Reader

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

NEW QUESTION 246

- (Exam Topic 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 use Azure Pipelines to build and test a React.js application. You have a pipeline that has a single job.

You discover that installing JavaScript packages from npm takes approximately five minutes each time you run the pipeline.

You need to recommend a solution to reduce the pipeline execution time. Solution: You recommend using pipeline artifacts.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Pipeline artifacts are a way to persist build outputs, test results, and other files generated during a pipeline run. They allow you to share data between stages, jobs, and pipelines, and to persist data for longer than the lifetime of a pipeline run. While artifacts can be useful for sharing data between pipeline runs and reducing the time required to download dependencies, they are not a solution for reducing the time required to install JavaScript packages from npm during a pipeline run.

The solution of reducing the pipeline execution time could be achieved by using package caching, which allows you to store and reuse npm packages from previous pipeline runs. There are several package caching options available for Azure Pipelines, including the npm task, the npm cache task, and the npm ci task. All of these options allow you to configure caching for your npm packages, which can significantly reduce the time required to install packages during subsequent pipeline runs.

Another solution could be using a dedicated agent that has those packages already installed, this way the pipeline doesn't have to install them again.

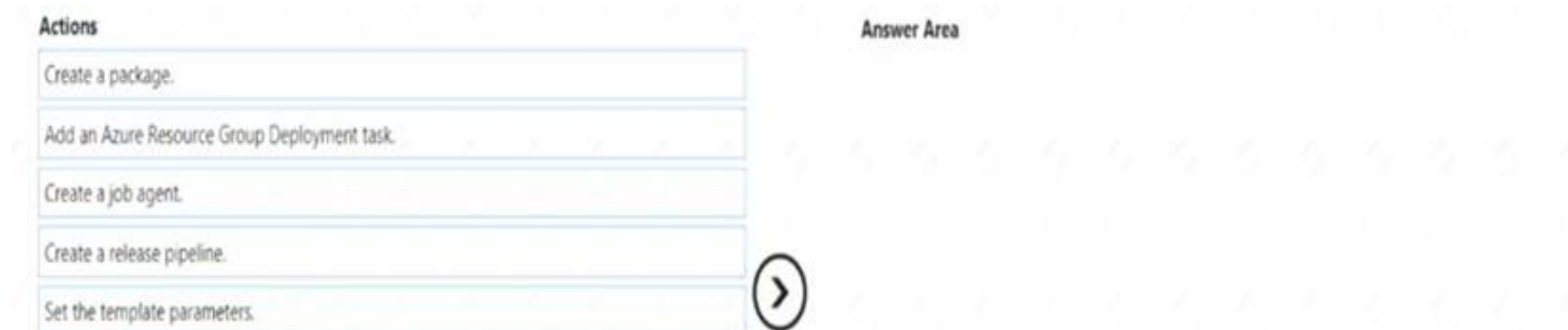
You can find more information on package caching by following this link <https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/package/npm-cache?view=azure-devops>

NEW QUESTION 247

- (Exam Topic 4)

As part of your application build process, you need to deploy a group of resources to Azure by using an Azure Resource Manager template located on GitHub.

Which three action 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.



The screenshot shows the 'Actions' list on the left and the 'Answer Area' on the right. The 'Actions' list contains five items: 'Create a package.', 'Add an Azure Resource Group Deployment task.', 'Create a job agent.', 'Create a release pipeline.', and 'Set the template parameters.'. A circular arrow icon is next to the 'Create a release pipeline.' item. The 'Answer Area' is empty.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create a release pipeline You need to create a new pipeline.

You can integrate Azure Resource Manager templates (ARM templates) with Azure Pipelines for continuous integration and continuous deployment (CI/CD).

Step 2: Add an Azure Resource Group Deployment task Step 3: Set the template parameters

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/add-template-to-azure-pipelines>

NEW QUESTION 249

- (Exam Topic 4)

You are using the Dependency Tracker extension in a project in Azure DevOps. You generate a risk graph for the project.

What should you use in the risk graph to identify the number of dependencies and the risk level of the project? To answer, drag the appropriate elements to the correct data points. Each element 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.



The screenshot shows the 'Elements' list on the left and the 'Answer Area' on the right. The 'Elements' list contains four items: 'Link color', 'Link length', 'Link width', and 'Node color'. The 'Answer Area' has two data points: 'Number of dependencies:' and 'Risk level:'. Each data point has a dashed box labeled 'Element' next to it.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



The screenshot shows the 'Elements' list on the left and the 'Answer Area' on the right. The 'Elements' list contains four items: 'Link color', 'Link length', 'Link width', and 'Node color'. The 'Answer Area' has two data points: 'Number of dependencies:' and 'Risk level:'. Each data point has a dashed box labeled 'Node color' next to it.

NEW QUESTION 250

- (Exam Topic 4)

You have several Azure virtual machines that run Windows Server 2019.

You need to identify the distinct event IDs of each virtual machine as shown in the following table.

Name	Event ID
VM1	[704,701,1501,1500, 1085]
VM2	[326,105,302,301,300,102]
...	...

How should you complete the Azure Monitor query? To answer, drag the appropriate values to the correct locations. Each value 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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

You can use makelist to pivot data by the order of values in a particular column. For example, you may want to explore the most common order events take place on your machines. You can essentially pivot the data by the order of EventIDs on each machine.

Example: Event

| where TimeGenerated > ago(12h)

| order by TimeGenerated desc

| summarize makelist(EventID) by Computer Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/advanced-aggregations>

NEW QUESTION 252

- (Exam Topic 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.

The lead developer at your company reports that adding new application features takes longer than expected due to a large accumulated technical debt.

You need to recommend changes to reduce the accumulated technical debt. Solution: You recommend increasing the test coverage.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead reduce the code complexity. Reference:

<https://dzone.com/articles/fight-through-the-pain-how-to-deal-with-technical>

NEW QUESTION 257

- (Exam Topic 4)

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.

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

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

No "DependsOn" are defined

No "Mode" is Apply and Monitor

Yes "ConfigurationModeFreqMin : 60 "

ConfigurationModeFreqMin : How often, in minutes, the current configuration is checked and applied. This property is ignored if the ConfigurationMode property is set to ApplyOnly.

<https://docs.microsoft.com/en-us/powershell/dsc/managing-nodes/metaconfig?view=dsc-1.1> <https://docs.microsoft.com/en-us/powershell/dsc/configurations/resource-depends-on?view=dsc-1.1>

NEW QUESTION 261

- (Exam Topic 4)

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 use Azure DevOps to build a web app named Appl and deploy Appl to VMSS1. Appl is used heavily and has usage patterns that vary on a weekly basis.

You need to recommend a solution to detect an abnormal rise in the rate of failed requests to Appl. The solution must minimize administrative effort.

What should you include in the recommendation?

- A. an Azure Service Health alert
- B. the Failures feature in Azure Application Insights
- C. the Smart Detection feature in Azure Application Insights
- D. an Azure Monitor alert that uses an Azure Log Analytics query

Answer: C

Explanation:

After setting up Application Insights for your project, and if your app generates a certain minimum amount of data, Smart Detection of failure anomalies takes 24 hours to learn the normal behavior of your app, before it is switched on and can send alerts.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/proactive-failure-diagnostics>

NEW QUESTION 264

- (Exam Topic 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 have an Azure DevOps project.

Your build process creates several artifacts.

You need to deploy the artifacts to on-premises servers.

Solution: You deploy a Docker build to an on-premises server. You add a Download Build Artifacts task to the deployment pipeline.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead you should deploy an Azure self-hosted agent to an on-premises server.

Note: To build your code or deploy your software using Azure Pipelines, you need at least one agent.

If your on-premises environments do not have connectivity to a Microsoft-hosted agent pool (which is typically the case due to intermediate firewalls), you'll need to manually configure a self-hosted agent on on-premises computer(s).

References:

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

NEW QUESTION 268

- (Exam Topic 4)

You use GitHub for source control of .NET applications.

You need to deploy a documentation solution that meets the following requirements:

- Documents will be written in Markdown as developers make code changes
- Changes to the documents will trigger the recompilation of a static website.
- Users will access the documents from the static websites
- Documents will be stored in a GitHub repository

Which two tools can you use to compile the website? Each correct answer presents a complete solution.

- A. Jekyll
- B. Medium
- C. caret
- D. WordPress
- E. DocFX

Answer: AE

Explanation:

A. Jekyll is a static site generator that can be used to generate a static website from Markdown files stored in a GitHub repository. Jekyll supports the use of Markdown for writing documentation, and it can automatically recompile the website whenever changes are made to the documentation.

E. DocFX is another tool that can be used to compile a static website from Markdown files stored in a GitHub repository. It is an open-source tool that can be used to generate API documentation, reference documentation, and other types of documentation from source code and other files. DocFX supports the use of Markdown for writing documentation and it can automatically recompile the website whenever changes are made to the documentation.

NEW QUESTION 269

- (Exam Topic 4)

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 use Azure Pipelines to build and test a React js application. You have a pipeline that has a single job.

You discover that installing JavaScript packages from npm takes approximately five minutes each time you run the pipeline.

You need to recommend a solution to reduce the pipeline execution time. Solution: You recommend enabling parallel jobs for the pipeline.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead enable pipeline caching. Note:

npm-cache is a command line utility that caches dependencies installed via npm, bower, jspm and composer.

It is useful for build processes that run [npm|bower|composer|jspm] install every time as part of their build process. Since dependencies don't change often, this often means slower build times. npm-cache helps alleviate this problem by caching previously installed dependencies on the build machine.
 Reference: <https://www.npmjs.com/package/npm-cache>

NEW QUESTION 273

- (Exam Topic 4)

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?

Answer: CDE

Explanation:

<https://www.scrum.org/resources/what-is-a-sprint-retrospective>

NEW QUESTION 276

- (Exam Topic 4)

You have an application that consists of several Azure App Service web apps and Azure functions. You need to access the security of the web apps and the functions.

Which Azure features can you use to provide a recommendation for the security of the application?

- A. Security & Compliance in Azure Log Analytics
- B. Resource health in Azure Service Health
- C. Smart Detection in Azure Application Insights
- D. Compute & apps in Azure Security Center

Answer: D

Explanation:

Monitor compute and app services: Compute & apps include the App Services tab, which App services: list of your App service environments and current security state of each.

Recommendations

This section has a set of recommendations for each VM and computer, web and worker roles, Azure App Service Web Apps, and Azure App Service Environment that Security Center monitors. The first column lists the recommendation. The second column shows the total number of resources that are affected by that recommendation. The third column shows the severity of the issue.

NEW QUESTION 279

- (Exam Topic 4)

You are deploying a new application that uses Azure virtual machines.

You plan to use the Desired State Configuration (DSC) extension on the virtual machines.

You need to ensure that the virtual machines always have the same Windows features installed.

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.

The screenshot shows the 'Actions' list on the left and the 'Answer Area' on the right. The actions are:

- Load the file to Azure Files.
- Create a PowerShell configuration file.
- Create a YAML configuration file.
- Configure the Custom Script Extension on the virtual machines.
- Configure the DSC extension on the virtual machines.
- Load the file to Azure Blob storage.

The answer area is empty, with up and down arrow buttons for reordering.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create a PowerShell configuration file

You create a simple PowerShell DSC configuration file. Step 2: Load the file to Azure Blob storage

Package and publish the module to a publically accessible blob container URL Step 3: Configure the Custom Script Extension on the virtual machines.

The Custom Script Extension downloads and executes scripts on Azure virtual machines. Reference:

<https://docs.microsoft.com/en-us/azure/automation/automation-dsc-getting-started> <https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/custom-script-windows>

NEW QUESTION 283

- (Exam Topic 4)

Your company has an Azure subscription.

The company requires that all resource group in the subscription have a tag named organization set to a value of Contoso.

You need to implement a policy to meet the tagging requirement.

How should you complete the policy? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

```
{
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "equals":
            ,
        }
      ],
      "not": {
        "field": "tags['organization']",
        "equals": "Contoso"
      }
    },
    "then": {
      "effect":
      "details": [
        {
          "field": "tags['organization']",
          "value": "Contoso"
        }
      ]
    }
  }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: " Microsoft.Resources/subscriptions/resourceGroups" Box 2: "Deny",

Sample - Enforce tag and its value on resource groups

```
{
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "equals": "Microsoft.Resources/subscriptions/resourceGroups"
        }
      ],
      "not": {
        "field": "[concat('tags['',parameters('tagName'), '']']", "equals": "[parameters('tagValue')]"
      }
    },
    "then": {
      "effect": "deny"
    }
  }
}
```

References:

<https://docs.microsoft.com/en-us/azure/governance/policy/samples/enforce-tag-on-resource-groups>

NEW QUESTION 288

- (Exam Topic 4)

You need to ensure that an Azure web app named az400-9940427-main can retrieve secrets from an Azure key vault named az400-9940427-kv1 by using a system managed identity.

The solution must use the principle of least privilege.

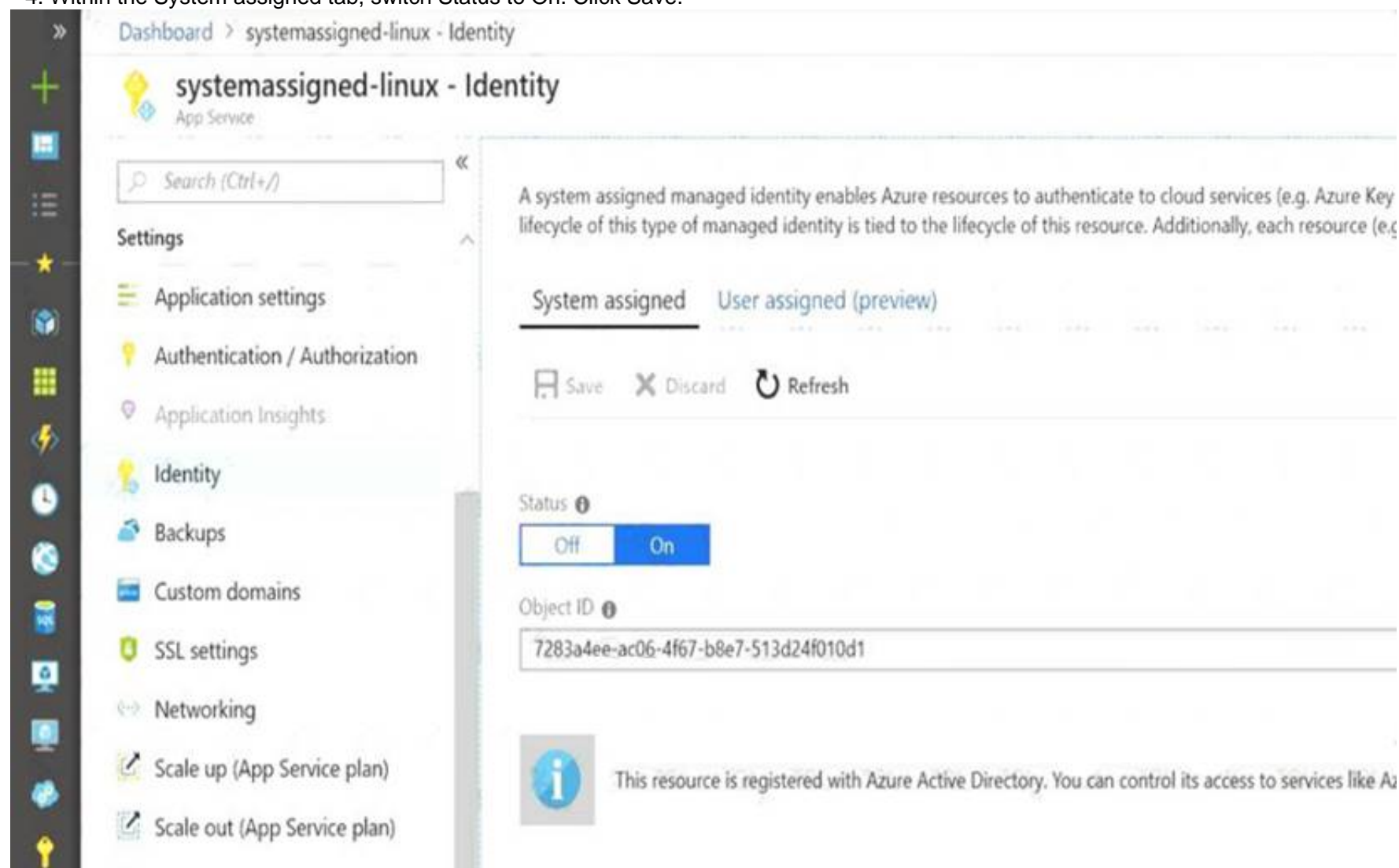
To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- * 1. In Azure portal navigate to the az400-9940427-main app.
- * 2. Scroll down to the Settings group in the left navigation.
- * 3. Select Managed identity.
- * 4. Within the System assigned tab, switch Status to On. Click Save.



References:

<https://docs.microsoft.com/en-us/azure/app-service/overview-managed-identity>

NEW QUESTION 292

- (Exam Topic 4)

You have the following Azure policy.

```
if: {
  allOf: [
    {
      "field": "type",
      "equals": "Microsoft.Storage/storageAccounts"
    },
    {
      "field": "Microsoft.Storage/storageAccounts/supportsHttpsTrafficOnly",
      "notEquals": "true"
    }
  ]
},
then: {
  effect: "deny"
}
```

You assign the policy to the Tenant root group. What is the effect of the policy?

- A. prevents all http traffic to existing Azure Storage accounts
- B. ensures that all traffic to new Azure Storage accounts is encrypted
- C. prevents HTTPS traffic to new Azure Storage accounts when the accounts are accessed over the Internet
- D. ensures that all data for new Azure Storage accounts is encrypted at rest

Answer: B

Explanation:

Denies non HTTPS traffic.

NEW QUESTION 293

- (Exam Topic 4)

You have a Microsoft ASP.NET Core web app in Azure that is accessed worldwide.

You need to run a URL ping test once every five minutes and create an alert when the web app is unavailable from specific Azure regions. The solution must minimize development time.

What should you do?

- A. Create an Azure Monitor Availability metric and alert.
- B. Create an Azure Application Insights availability test and alert.
- C. Write an Azure function and deploy the function to the specific regions.
- D. Create an Azure Service Health alert for the specific regions.

Answer: B

Explanation:

There are three types of Application Insights availability tests: URL ping test: a simple test that you can create in the Azure portal. Multi-step web test
Custom Track Availability Tests

Note: After you've deployed your web app/website, you can set up recurring tests to monitor availability and responsiveness. Azure Application Insights sends web requests to your application at regular

intervals from points around the world. It can alert you if your application isn't responding, or if it responds too slowly.

You can set up availability tests for any HTTP or HTTPS endpoint that is accessible from the public internet.

You don't have to make any changes to the website you're testing. In fact, it doesn't even have to

be a site you own. You can test the availability of a REST API that your service depends on. Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/monitor-web-app-availability#create-a-url-ping-test>

NEW QUESTION 295

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