

# Microsoft

## Exam Questions AZ-400

Microsoft Azure DevOps Solutions (beta)



**NEW QUESTION 1**

HOTSPOT - (Topic 4)  
 HOTSPOT

You need to create deployment files for an Azure Kubernetes Service (AKS) cluster. The deployments must meet the provisioning storage requirements shown in the following table.

Deployment	Requirement
Deployment 1	Use files stored on an SMB-based share from the container's file system.
Deployment 2	Use files on a managed disk from the container's file system.
Deployment 3	Securely access X.509 certificates from the container's file system.

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

Deployment 1:  ▼

- azurekeyvault-flexvolume
- blobfuse-flexvol
- kubernetes.io/azure-disk
- kubernetes.io/azure-file
- volume.beta.kubernetes.io/storage-provisioner

Deployment 2:  ▼

- azurekeyvault-flexvolume
- blobfuse-flexvol
- kubernetes.io/azure-disk
- kubernetes.io/azure-file
- volume.beta.kubernetes.io/storage-provisioner

Deployment 3:  ▼

- azurekeyvault-flexvolume
- blobfuse-flexvol
- kubernetes.io/azure-disk
- kubernetes.io/azure-file
- volume.beta.kubernetes.io/storage-provisioner

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Deployment 1: Kubernetes.io/azure-file

You can use Azure Files to connect using the Server Message Block (SMB) protocol. Deployment 2: Kubernetes.io/azure-disk

Deployment 3: azurekeyvault-flexvolume

azurekeyvault-flexvolume: Key Vault FlexVolume: Seamlessly integrate your key management systems with Kubernetes.

Secrets, keys, and certificates in a key management system become a volume accessible to pods. Once the volume is mounted, its data is available directly in the container filesystem for your application.

**NEW QUESTION 2**

HOTSPOT - (Topic 4)

You have a project in Azure DevOps that includes two users named User1 and User2. You plan to use Azure Monitor to manage logs. You need to ensure that the users can perform the actions shown in following the table.

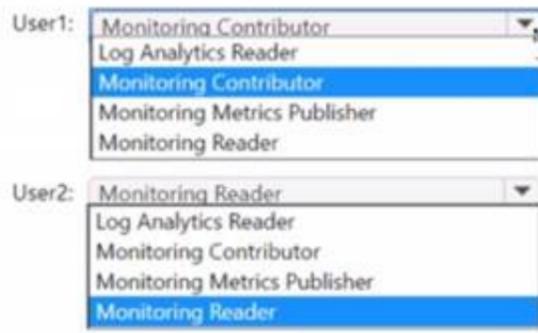
User	Action
User1	<ul style="list-style-type: none"> <li>• Create private monitoring dashboards.</li> <li>• Search usage data for an Azure Monitor workspace.</li> </ul>
User2	<ul style="list-style-type: none"> <li>• View autoscale settings.</li> <li>• View alert activities and settings.</li> </ul>

The solution must follow the principle of least privilege.

Which role should you assign to each user? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

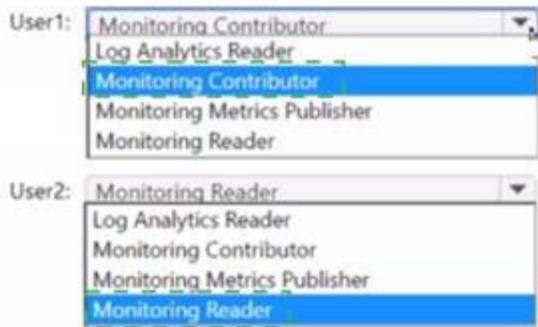


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**



**NEW QUESTION 3**

- (Topic 4)

You have an Azure subscription that contains an Azure Active Directory (Azure AD) tenant. You are configuring a build pipeline in Azure Pipelines that will include a task named

Task1. Task1 will authenticate by using an Azure AD service principal.

Which three values should you configure for Task1? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the object ID
- B. the tenant ID
- C. the app ID
- D. the client secret
- E. the subscription ID

**Answer:** BCD

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/library/connect-to-azure>

**NEW QUESTION 4**

DRAG DROP - (Topic 4)

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

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

NOTE: Each correct selection is worth one point.

**Chart Widgets**

**Answer Area**

Burndown

Cycle Time

Lead Time

Velocity

The elapsed time from the creation of work items to their completion:

The elapsed time to complete work items once they are active:

The remaining work:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Lead time

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

Box 2: Cycle time

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

Box 3: Burndown

Burndown charts focus on remaining work within a specific time period.

**NEW QUESTION 5**

- (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 a three-way merge. Does this meet the goal?

A. Yes

B. No

**Answer:** B

**Explanation:**

Instead use fast-forward merge.

Note:

No fast-forward merge - This option merges the commit history of the source branch when the pull request closes and creates a merge commit in the target branch.

Reference:

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

**NEW QUESTION 6**

- (Topic 4)

You have a GitHub repository that contains workflows. The workflows contain steps that execute predefined actions. Each action has one or more versions.

You need to request the specific version of an action to execute.

Which three attributes can you use to identify the version? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. the SHA-based hashes

B. the tag

C. the runner

D. the branch

E. the serial

**Answer:** ABD

**Explanation:**

<https://docs.github.com/en/actions/using-workflows/workflow-syntax-for-github-actions>

"We strongly recommend that you include the version of the action you are using by specifying a Git ref, SHA, or Docker tag. If you don't specify a version, it could break your workflows or cause unexpected behavior when the action owner publishes an update. Using the commit SHA of a released action version is the safest for stability and security. If the action publishes major version tags, you should expect to receive critical fixes and security patches while still retaining compatibility. Note that this behavior is at the discretion of the action's author. Using the default branch of an action may be convenient, but if someone releases a new major version with a breaking change, your workflow could break."

**NEW QUESTION 7**

- (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 8**

- (Topic 4)

You have multiple teams that work on multiple projects in Azure DevOps.

You need to plan and manage the consumers and producers for each project. The solution must provide an overview of all the projects. What should you do?

- A. Install the Dependency Tracker extension and create dependencies for each project.
- B. Add a Parent or Child link to the feature or user story for the items of each project.
- C. Add a Predecessor or Successor link to the feature or user story for the items of each project.
- D. Create a custom query to show the consumers and producers and add a widget to a dashboard.

**Answer:** A

#### NEW QUESTION 9

- (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 10

- (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 10

- (Topic 4)

You have an Azure subscription that contains a Log Analytics workspace named WS1 and a virtual machine named VM1.

You need to install the Microsoft Enterprise Cloud Monitoring extension on VM1.

Which two values are required to configure the extension? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. the secret key of WS1
- B. the ID of the subscription
- C. the system-assigned managed identity of VM1
- D. theIDofWS1
- E. the resource ID of VM1

**Answer:** DE

#### NEW QUESTION 13

- (Topic 4)

Your company uses a Git repository in Azure Repos to manage the source code of a web application. The master branch is protected from direct updates.

Developers work on new features in the topic branches.

Because of the high volume of requested features, it is difficult to follow the history of the changes to the master branch. You need to enforce a pull request merge strategy. The strategy must meet the following requirements:

- Consolidate commit histories
- Merge tie changes into a tingle commit

Which merge strategy should you use in the branch policy?

- A. Git fetch
- B. no-fast-forward merge
- C. squash merge
- D. fast-forward merge

**Answer: C**

**Explanation:**

Squash merging is a merge option that allows you to condense the Git history of topic branches when you complete a pull request. Instead of each commit on the topic branch being added to the history of the default branch, a squash merge takes all the file changes and adds them to a single new commit on the default branch.

A simple way to think about this is that squash merge gives you just the file changes, and a regular merge gives you the file changes and the commit history.

Note: Squash merging keeps your default branch histories clean and easy to follow without demanding any workflow changes on your team. Contributors to the topic branch work how they want in the topic branch, and the default branches keep a linear history through the use of squash merges. The commit history of a master branch updated with squash merges will have one commit for each merged branch. You can step through this history commit by commit to find out exactly when work was done.

References: <https://docs.microsoft.com/en-us/azure/devops/repos/git/merging-with-squash>

**NEW QUESTION 17**

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

Does this meet the goal?

- A. Yes
- B. No

**Answer: A**

**Explanation:**

Octopus Deploy is an automated deployment server that makes it easy to automate deployment of ASP.NET web applications, Java applications, NodeJS application and custom scripts to multiple environments.

Octopus can be installed on various platforms including Windows, Mac and Linux. It can also be integrated with most version control tools including VSTS and GIT.

When you deploy software to Windows servers, you need to install Tentacle, a lightweight agent service, on your Windows servers so they can communicate with the Octopus server.

When defining your deployment process, the most common step type will be a package step. This step deploys your packaged application onto one or more deployment targets.

When deploying a package you will need to select the machine role that the package will be deployed to.

References:

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

**NEW QUESTION 21**

SIMULATION - (Topic 4)

You plane to store signed images in an Azure Container Registry instance named az4009940427acr1.

You need to modify the SKU for az4009940427acr1 to support the planned images. The solution must minimize costs.

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

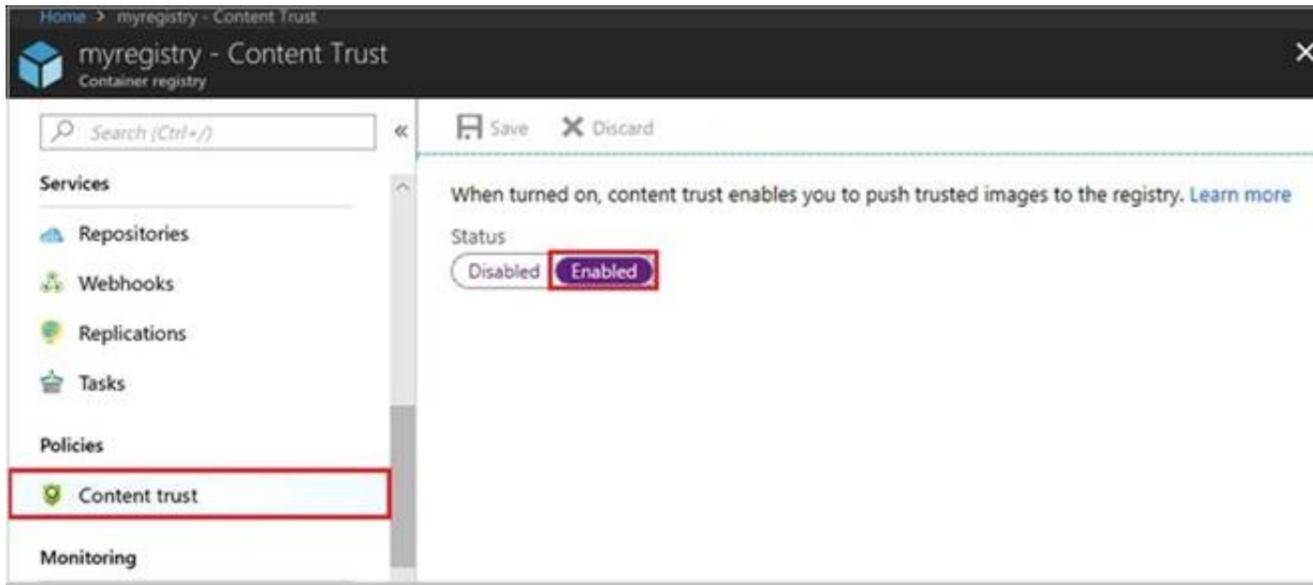
- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

\* 1. Open Microsoft Azure Portal, and select the Azure Container Registry instance named az4009940427acr1.

\* 2. Under Policies, select Content Trust > Enabled > Save.



References:  
<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-content-trust>

**NEW QUESTION 25**

HOTSPOT - (Topic 4)

Your company uses a Git source-code repository.  
 You plan to implement GitFlow as a workflow strategy.  
 You need to identify which branch types are used for production code and preproduction code in the strategy.  
 Which branch type should you identify for each code type? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

**Answer Area**

Production code:  Master  Feature  Develop

Preproduction code:  Master  Feature  Develop

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Master  
 The Master branch contains production code. All development code is merged into master in sometime.  
 Box 2: Develop  
 The Develop branch contains pre-production code. When the features are finished then they are merged into develop.

**NEW QUESTION 30**

HOTSPOT - (Topic 4)

You have an Azure subscription.  
 You need to create a storage account by using a Bicep file.  
 How should you complete the file? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

**Answer Area**

```

param storageAccount string
var storageAccountNameToUse = '${storageAccount}${uniqueString(resourceGroup().id)}'
resource invoiceStorage 'Microsoft.Storage/storageAccounts@2022-05-01' = {
  name: storageAccountNameToUse
  location: 'eastus'
  sku: {
    name: 'Standard_GRS'
  }
}
    
```

kind:

kind:

param:

properties:

type:

var:

properties:

kind:

param:

properties:

type:

var:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

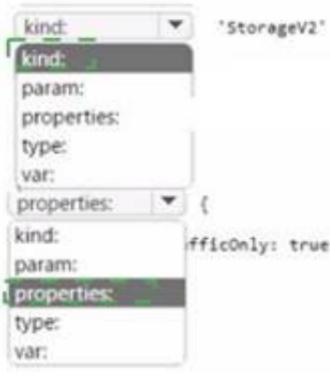
● ● ● ● ●

**Answer Area**

```

param storageAccount string
var storageAccountNameToUse = '${storageAccount}${uniqueString(resourceGroup().id)}'
resource invoiceStorage 'Microsoft.Storage/storageAccounts@2022-05-01' = {
  name: storageAccountNameToUse
  location: 'eastus'
  sku: {
    name: 'Standard_GRS'
  }
  kind: 'StorageV2'
  properties: {
    blobCaching: 'None'
    defaultEncryptionScope: 'Microsoft.Storage/StorageV2'
    fileEncryptionScope: 'Microsoft.Storage/StorageV2'
    isHnsEnabled: true
  }
}

```



**NEW QUESTION 35**

- (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 39**

- (Topic 4)

You administer an Azure DevOps project that includes package feeds.

You need to ensure that developers can unlist and deprecate packages. The solution must use the principle of least privilege.

Which access level should you grant to the developers?

- A. Collaborator
- B. Contributor
- C. Owner

**Answer:** B

**Explanation:**

Feeds have four levels of access: Owners, Contributors, Collaborators, and Readers. Owners can add any type of identity-individuals, teams, and groups-to any access level.

Permission	Reader	Collaborator	Contributor	Owner
List and restore/install packages	✓	✓	✓	✓
Save packages from upstream sources		✓	✓	✓
Push packages			✓	✓
Unlist/deprecate packages			✓	✓
Promote a package to a view			✓	✓
Delete/unpublish package				✓
Edit feed permissions				✓

Reference:  
<https://docs.microsoft.com/en-us/azure/devops/artifacts/feeds/feed-permissions>

**NEW QUESTION 41**

- (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 44**

- (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 complexity.  
 Does this meet the goal?

- A. Yes
- B. No

**Answer: A**

**Explanation:**

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

**NEW QUESTION 48**

- (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 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 50**

- (Topic 4)

You manage projects by using Azure Boards.

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

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

**Answer: B**

**NEW QUESTION 53**

DRAG DROP - (Topic 4)

You use Extra beam Fusion SIEM and the Azure cloud platform.

You need to integrate Extra beam and Azure. The solution must use OAuth authentication. 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
Upload a certificate.	
Create a client secret.	1
Register an Exabeam application in Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra.	2
Configure the Exabeam Azure cloud connector.	3
Configure API permissions.	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Actions	Answer Area
Upload a certificate.	
Create a client secret.	1 Create a client secret.
Register an Exabeam application in Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra.	2 Register an Exabeam application in Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra.
Configure the Exabeam Azure cloud connector.	3 Configure the Exabeam Azure cloud connector.
Configure API permissions.	

**NEW QUESTION 56**

DRAG DROP - (Topic 4)

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

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

### Commands

### Answer Area

helm install

kubectl create

helm completion

helm init

helm serve



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Kubectl create

You can add a service account to Tiller using the --service-account <NAME> flag while you're configuring Helm (step 2 below). As a prerequisite, you'll have to create a role binding which specifies a role and a service account name that have been set up in advance.

Example: Service account with cluster-admin role

```
$ kubectl create -f rbac-config.yaml serviceaccount "tiller" created clusterrolebinding "tiller" created
```

```
$ helm init --service-account tiller
```

Step 2: helm init

To deploy a basic Tiller into an AKS cluster, use the helm init command.

Step 3: helm install

To install charts with Helm, use the helm install command and specify the name of the chart to install.

References:

<https://docs.microsoft.com/en-us/azure/aks/kubernetes-helm> [https://docs.helm.sh/using\\_helm/#tiller-namespaces-and-rbac](https://docs.helm.sh/using_helm/#tiller-namespaces-and-rbac)

**NEW QUESTION 59**

- (Topic 4)

You use WhiteSource Bolt to scan a Node.js application.

The WhiteSource Bolt scan identifies numerous libraries that have invalid licenses. The libraries are used only during development and are not part of a production deployment.

You need to ensure that WhiteSource Bolt only scans production dependencies.

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

- A. Run npm install and specify the --production flag.
- B. Modify the WhiteSource Bolt policy and set the action for the licenses used by the development tools to Reassign.
- C. Modify the devDependencies section of the project's Package.json file.
- D. Configure WhiteSource Bolt to scan the node\_modules directory only.

**Answer:** AC

**Explanation:**

A: To resolve NPM dependencies, you should first run "npm install" command on the relevant folders before executing the plugin.

C: All npm packages contain a file, usually in the project root, called package.json - this file holds various metadata relevant to the project. This file is used to give information to npm that allows it to identify the project as well as handle the project's dependencies. It can also contain other metadata such as a project description, the version of the project in a particular distribution, license information, even configuration data - all of which can be vital to both npm and to the end users of the package.

Reference: <https://whitesource.atlassian.net/wiki/spaces/WD/pages/34209870/NPM+Plugin>

<https://nodejs.org/en/knowledge/getting-started/npm/what-is-the-file-package-json>

**NEW QUESTION 64**

- (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 66**

- (Topic 4)

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

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

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

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

**Answer: D**

**Explanation:**

Reference:

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

**NEW QUESTION 70**

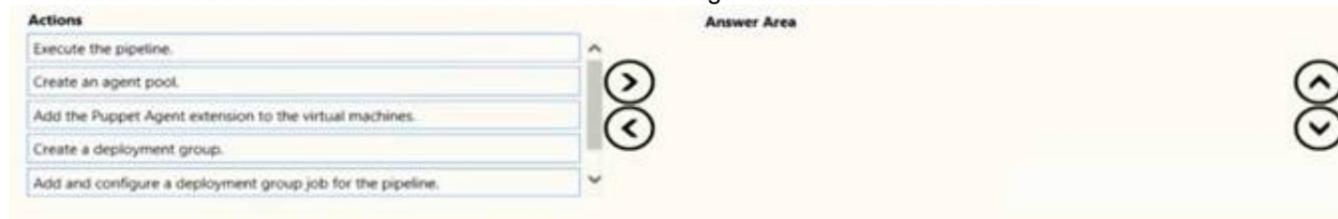
DRAG DROP - (Topic 4)

You have an Azure subscription that contains a resources group named RG1. RG1 contains the following resources:

- Four Azure virtual machines that run Windows Server and have Internet Information Services (IIS) installed
- SQL Server on an Azure virtual machine
- An Azure Load Balancer

You need to deploy an application to the virtual machines in RG1 by using Azure Pipelines. 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.



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Step 1: Create an agent pool

Azure Pipelines provides a pre-defined agent pool named Azure Pipelines with Microsoft- hosted agents.

Step 2: Create a deployment group

Deployment groups make it easy to define logical groups of target machines for deployment, and install the required agent on each machine.

Step 3: Execute the Azure Pipelines Agent extension to the virtual machines Install the Azure Pipelines Agent Azure VM extension

Step 4: Add and configure a deployment group job for the pipeline

Tasks that you define in a deployment group job run on some or all of the target servers, depending on the arguments you specify for the tasks and the job itself.

**NEW QUESTION 71**

- (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 continuous deployment. Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Instead 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 75**

DRAG DROP - (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. <span style="float: right;">⏪ ⏩</span>	⏪ ⏩
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-d6fa30f0f15e>

**NEW QUESTION 77**

- (Topic 4)  
 You have an Azure DevOps project named Project1 and an Azure subscription named Sub1. Sub1 contains an Azure SQL database named DB1. You need to create a release pipeline that uses the Azure SQL Database Deployment task to update DB1. Which artifact should you deploy?

- A. a BACPAC
- B. a DACPAC
- C. an LDF file
- D. an MDF file

**Answer:** B

**Explanation:**

Use Azure SQL Database Deployment task in a build or release pipeline to deploy to Azure SQL DB using a DACPAC or run scripts using SQLCMD.  
 Reference:  
<https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/deploy/sql-azure-dacpac-deployment>

**NEW QUESTION 80**

- (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 83**

**DRAG DROP - (Topic 4)**

You have a private project in Azure DevOps and two users named User1 and User2. You need to add User1 and User2 to groups to meet the following requirements:

- ? User1 must be able to create a code wiki.
- ? User2 must be able to edit wiki pages.
- ? The solution must use the principle of least privilege.

To which group should you add each user? To answer, drag the appropriate groups to the correct users. Each group 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.

**Groups**

- Build Administrators
- Contributors
- Project Administrators
- Project Valid Users
- Stakeholders

**Answer Area**

User1:

User2:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

User1: Project Administrators

You must have the permission Create Repository to publish code as wiki. By default, this permission is set for members of the Project Administrators group.

User2: Contributors

Anyone who is a member of the Contributors security group can add or edit wiki pages. Anyone with access to the team project, including stakeholders, can view the wiki.

**NEW QUESTION 85**

**HOTSPOT - (Topic 4)**

Your company uses GitHub for source control. GitHub repositories store source code and store process documentation. The process documentation is saved as Microsoft Word documents that contain simple flow charts stored as .bmp files.

You need to optimize the integration and versioning of the process documentation and the flow charts. The solution must meet the following requirements:

- Store documents as plain text.
- Minimize the number of files that must be maintained.
- Simplify the modification, merging, and reuse of flow charts.
- Simplify the modification, merging, and reuse of documents.

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

Convert the .docx files to: LaTex Typesetting (.tex)  
Markdown (.md)  
Portable Document Format (.pdf)

Convert the flow charts to: Mermaid graph diagrams (.md)  
Portable Network Graphics (.png)  
Tagged Image File Format (.tiff)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Markdown (.md)

Github understands several text formats, including .txt and .md. .md stands for a file written in Markdown.

Box 2: Mermaid diagrams

Mermaid lets you create diagrams and visualizations using text and code.

It is a Javascript based diagramming and charting tool that renders Markdown-inspired text definitions to create and modify diagrams dynamically.

**NEW QUESTION 87**

**- (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 has a project in Azure DevOps for a new web application. You need to ensure that when code is checked in, a build runs automatically.  
 Solution: From the Continuous deployment trigger settings of the release pipeline, you enable the Pull request trigger setting.  
 Does the meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

In Visual Designer you enable continuous integration (CI) by:

- ? Select the Triggers tab.
- ? Enable Continuous integration.

References:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/get-started-designer>

**NEW QUESTION 92**

HOTSPOT - (Topic 4)

You have a project Azure DevOps.

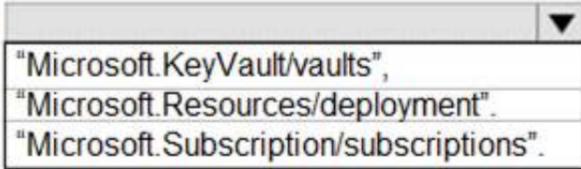
You plan to create a build pipeline that will deploy resources by using Azure Resource Manager templates. The templates will reference secrets stored in Azure Key Vault.

You need to ensure that you can dynamically generate the resource ID of the key vault during template deployment.

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

NOTE: Each correct selection is worth one point.

```

"resources": [
{
  "apiversion": "2018-05-01",
  "name" : "secrets",
  "type": ,
  "properties": {
    "mode" : "Incremental",
     : {
      "deployment"
      "template"
      "templateLink"
    }
  }
},
{
  "contentVersion" : "1.0.0.0",
  "uri" : "[uri(parameters('_artifactsLocation'),
concat('./nested/sqlserver.json',
parameters('_artifactsLocationSasToken')))]"
},
"parameters": {
  "secret": {
    "reference": {
      "keyVault": {
        "id": "[resourceId(parameters('vaultSubscription'),
parameters('vaultResourceGroupName'),
'Microsoft.KeyVault/vaults',
parameters('vaultName'))]"
      },
      "secretName": "[parameters('secretName')]"
    }
  }
}
]

```

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

```

"resources": [
  {
    "apiversion": "2018-05-01",
    "name": "secrets",
    "type": [
      "Microsoft.KeyVault/vaults",
      "Microsoft.Resources/deployment",
      "Microsoft.Subscription/subscriptions"
    ],
    "properties": {
      "mode": "Incremental",
      "templateLink": {
        "deployment": "[uri(parameters('_artifactsLocation'), concat('./nested/sqlserver.json', parameters('_artifactsLocationSasToken')))]",
        "template": "[uri(parameters('_artifactsLocation'), concat('./nested/sqlserver.json', parameters('_artifactsLocationSasToken')))]",
        "templateLink": "[uri(parameters('_artifactsLocation'), concat('./nested/sqlserver.json', parameters('_artifactsLocationSasToken')))]"
      }
    }
  },
  {
    "contentVersion": "1.0.0.0",
    "uri": "[uri(parameters('_artifactsLocation'), concat('./nested/sqlserver.json', parameters('_artifactsLocationSasToken')))]",
    "parameters": {
      "secret": {
        "reference": {
          "keyVault": {
            "id": "[resourceId(parameters('vaultSubscription'), parameters('vaultResourceGroupName'), 'Microsoft.KeyVault/vaults', parameters('vaultName'))]"
          },
          "secretName": "[parameters('secretName')]"
        }
      }
    }
  }
],

```

**NEW QUESTION 96**

DRAG DROP - (Topic 4)

You have an Azure Key Vault that contains an encryption key named key1. You plan to create a Log Analytics workspace that will store logging data. You need to encrypt the workspace by using key1.

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
Register the Azure subscription to allow cluster creation.	
Enable soft delete for the key vault.	
Create a Log Analytics cluster.	
Grant permissions to the key vault.	
Link the workspace.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions	Answer Area
Register the Azure subscription to allow cluster creation.	
Enable soft delete for the key vault.	
Create a Log Analytics cluster.	
Grant permissions to the key vault.	
Link the workspace.	

**NEW QUESTION 98**

- (Topic 4)

You have a project in Azure DevOps named Project1. Project1 contains a published wiki. You need to change the order of pages in the navigation pane of the published wiki in the Azure DevOps portal. What should you do?

- A. At the root of the wiki, create a file named order that defines the page hierarchy.
- B. At the root of the wiki, create a file named wiki.md that defines the page hierarchy.
- C. Rename the pages in the navigation pane.
- D. Drag and drop the pages in the navigation pane.

**Answer: D**

**Explanation:**

Reorder a wiki page

You can reorder pages within the wiki tree view to have pages appear in the order and hierarchy you want. You can drag-and-drop a page title in the tree view to do the following operations:

Change the parent-child relationship of a page Change the order of the page within the hierarchy Reference:

<https://docs.microsoft.com/en-us/azure/devops/project/wiki/add-edit-wiki>

**NEW QUESTION 99**

- (Topic 4)

You plan to use Terraform to deploy an Azure resource group.

You need to install the required frameworks to support the planned deployment. Which two frameworks should you install? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Vault
- B. Terratest
- C. Node.js
- D. Yeoman
- E. Tiller

**Answer: BD**

**Explanation:**

You can use the combination of Terraform and Yeoman. Terraform is a tool for creating infrastructure on Azure. Yeoman makes it easy to create Terraform modules.

Terratest provides a collection of helper functions and patterns for common infrastructure testing tasks, like making HTTP requests and using SSH to access a specific virtual machine. The following list describes some of the major advantages of using Terratest:

? Convenient helpers to check infrastructure - This feature is useful when you want to verify your real infrastructure in the real environment.

? Organized folder structure - Your test cases are organized clearly and follow the standard Terraform module folder structure.

? Test cases are written in Go - Many developers who use Terraform are Go developers. If you're a Go developer, you don't have to learn another programming language to use Terratest.

? Extensible infrastructure - You can extend additional functions on top of Terratest, including Azure-specific features.

Reference:

<https://docs.microsoft.com/en-us/azure/developer/terraform/create-base-template-using-yeoman>

<https://docs.microsoft.com/en-us/azure/developer/terraform/test-modules-using-terratest>

**NEW QUESTION 100**

DRAG DROP - (Topic 4)

You are configuring the settings of a new Git repository in Azure Repos.

You need to ensure that pull requests in a branch meet the following criteria before they are merged:

? Committed code must compile successfully.

? Pull requests must have a Quality Gate status of Passed in SonarCloud.

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

NOTE: Each correct selection is worth one point.

**Policy Types**

- A build policy
- A check-in policy
- A status policy

Committed code must compile successfully:

Pull requests must have a Quality Gate status of Passed in SonarCloud:

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: A check-in policy

Administrators of Team Foundation version control can add check-in policy requirements. These check-in policies require the user to take actions when they conduct a check-in to source control.

By default, the following check-in policy types are available:

- ? Builds Requires that the last build was successful before a check-in.
- ? Code Analysis Requires that code analysis is run before check-in.
- ? Work Items Requires that one or more work items be associated with the check-in.

Box 2: Build policy

**NEW QUESTION 102**

- (Topic 4)

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

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

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

What should you recommend?

- A. Microsoft Project
- B. Bamboo
- C. Microsoft Lync
- D. Microsoft Teams

**Answer: D**

**Explanation:**

? Within each team, users can create different channels to organize their communications by topic. Each channel can include a couple of users or scale to thousands of users.

? Microsoft Teams works on Android, iOS, Mac and Windows systems and devices.

It also works in Chrome, Firefox, Internet Explorer 11 and Microsoft Edge web browsers.

? The guest-access feature in Microsoft Teams allows users to invite people outside their organizations to join internal channels for messaging, meetings and file sharing. This capability helps to facilitate business-to-business project management.

? Teams integrates with Azure DevOps.

References: <https://searchunifiedcommunications.techtarget.com/definition/Microsoft-Teams>

**NEW QUESTION 106**

DRAG DROP - (Topic 4)

You have an Azure Repos Git repository named repo1.

You need to ensure that you can authenticate to repo1 by using SSH.

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
Add the SSH private key.	
Save the SSH key to the root of repo1.	
Sign in to Azure DevOps.	
Create SSH keys by using ssh-keygen.	
Add the SSH public key.	
Clone repo1.	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Actions	Answer Area
Add the SSH private key.	Sign in to Azure DevOps.
Save the SSH key to the root of repo1.	Create SSH keys by using ssh-keygen.
Sign in to Azure DevOps.	Add the SSH public key.
Create SSH keys by using ssh-keygen.	Clone repo1.
Add the SSH public key.	
Clone repo1.	

**NEW QUESTION 107**

- (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 fail to meet the performance baseline?

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

**Answer: C**

**Explanation:**

<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 111**

- (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: Add a code coverage step to the build pipelines.

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-Continuous-Assurance/Readme.html>

**NEW QUESTION 113**

- (Topic 4)

Your company has a project in Azure DevOps.

You need to ensure that when there are multiple builds pending deployment only the most recent build is deployed.

What should you use?

- A. deployment queue settings
- B. deployment conditions
- C. release gates
- D. pull request triggers

**Answer: A**

**Explanation:**

References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/process/stages?tabs=classic&view=azure-devops#queuing-policies>

**NEW QUESTION 115**

FILL IN THE BLANK - (Topic 4)

You have a GitHub repository that contains the source code for an app.

You need to identify all the changes made between versions 1.4.16 and 1.6.12 of the source code.

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

NOTE: Each correct selection is worth one point.

Git | helper-script > changes.txt

Answer Area

git  | helper-script > changes.txt

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Answer below

get diff v1.4.16 v1.6.12 | helper-script > changes.txt

This command will compare the changes made between versions 1.4.16 and 1.6.12 of the source code in your GitHub repository, pipe the output through the helper-script and save the result to a file called "changes.txt" Please note that, this command assumes that you have a helper-script that can handle get diff output as an input and processes it further. It is not a default get command.

**NEW QUESTION 118**

- (Topic 4)

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

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

What should you do?

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

**Answer: B**

**Explanation:**

In some cases, you need to bypass policy requirements so you can push changes to the branch directly or complete a pull request even if branch policies are not satisfied. For these situations, grant the desired permission from the previous list to a user or group. You can scope this permission to an entire project, a repo, or a single branch. Manage this permission along the with other Git permissions.  
 References: <https://docs.microsoft.com/en-us/azure/devops/repos/git/branch-policies>

**NEW QUESTION 122**

SIMULATION - (Topic 4)

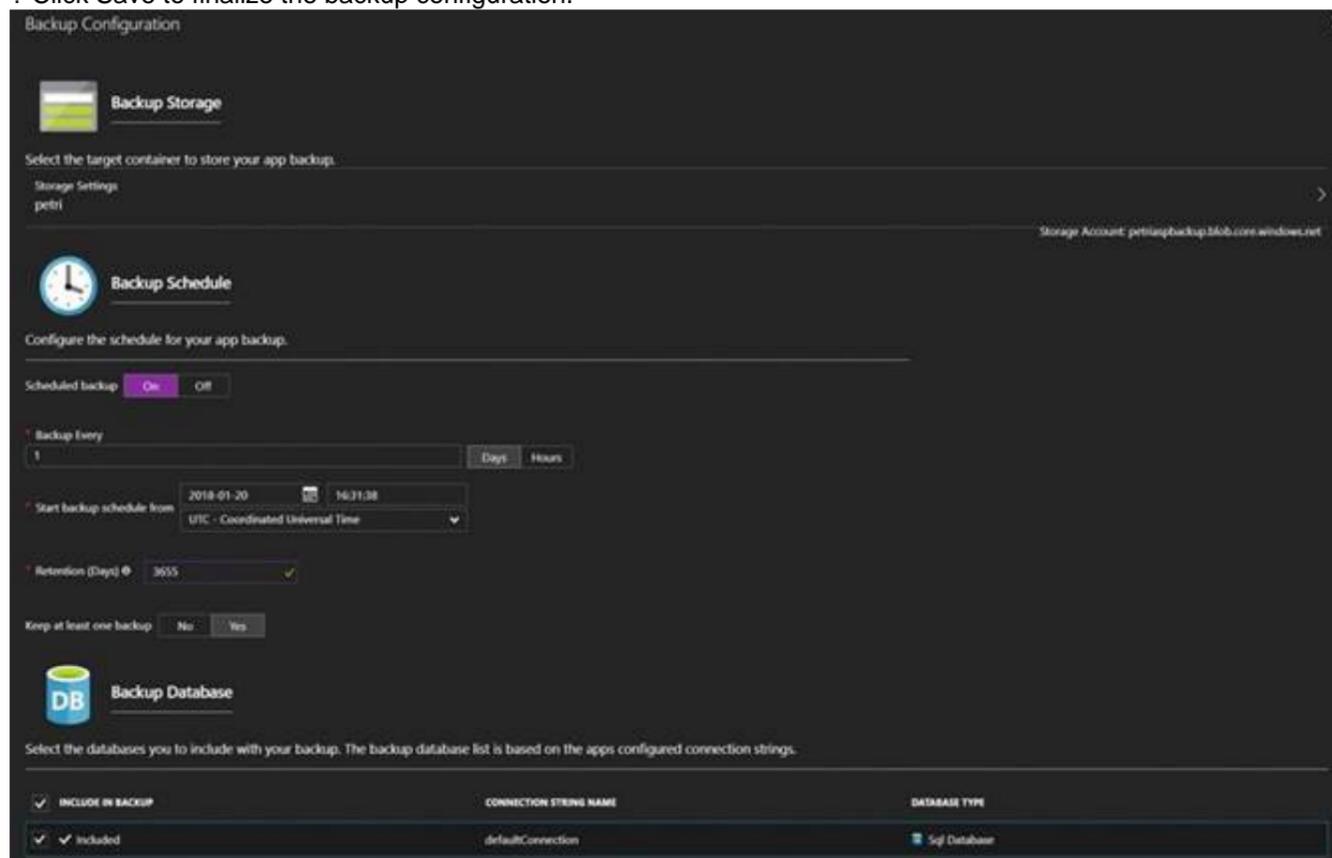
Your company plans to implement a new compliance strategy that will require all Azure web apps to be backed up every five hours. You need to back up an Azure web app named az400-11566895-main every five hours to an Azure Storage account in your resource group. To complete this task, sign in to the Microsoft Azure portal.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

With the storage account ready, you can configure backs up in the web app or App Service.  
 ? Open the App Service az400-11566895-main, which you want to protect, in the Azure Portal and browse to Settings > Backups. Click Configure and a Backup Configuration blade should appear.  
 ? Select the storage account.  
 ? Click + to create a private container. You could name this container after the web app or App Service.  
 ? Select the container.  
 ? If you want to schedule backups, then set Scheduled Backup to On and configure a schedule: every five hours  
 ? Select your retention. Note that 0 means never delete backups.  
 ? Decide if at least one backup should always be retained.  
 ? Choose if any connected databases should be included in the web app backup.  
 ? Click Save to finalize the backup configuration.



**NEW QUESTION 123**

DRAG DROP - (Topic 4)

You have an Azure Kubermets Service (AKS) implementation that is RBAC-enabled. You plan to use Azure Container Instances as a hosted development environment to run containers in the AKS implementation. You need to conjure Azure Container Instances as a hosted environment for running me containers in AKS. Which three actions should you perform m 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

- Run helm init.
- Run az aks install-connector.
- Create a YAML file.
- Run az role assignment create
- Run kubectl apply.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Create a YAML file.

If your AKS cluster is RBAC-enabled, you must create a service account and role binding for use with Tiller. To create a service account and role binding, create a file named rbac- virtual-kubelet.yaml

Step 2: Run kubectl apply.

Apply the service account and binding with kubectl apply and specify your rbac-virtual- kubelet.yaml file.

Step 3: Run helm init.

Configure Helm to use the tiller service account: helm init --service-account tiller

You can now continue to installing the Virtual Kubelet into your AKS cluster. References: <https://docs.microsoft.com/en-us/azure/aks/virtual-kubelet>

**NEW QUESTION 125**

- (Topic 4)

You have a private GitHub repository.

You need to display the commit status of the repository on Azure Boards. What should you do first?

- A. Create a GitHub action in GitHub.
- B. Add the Azure Pipelines app to the GitHub repository.
- C. Configure multi-factor authentication (MFA) for your GitHub account.
- D. Add the Azure Boards app to the repository.

**Answer:** D

**Explanation:**

To connect Azure Boards to GitHub.com, connect and configure from Azure Boards. Or, alternatively, install and configure the Azure Boards app from GitHub. Both methods have been streamlined and support authenticating and operating via the app rather than an individual.

Note (see step 4 below): Add a GitHub connection:

? Sign into Azure Boards.

? Choose (1) Project Settings, choose (2) GitHub connections and then (3) Connect your GitHub account.

? If this is your first time connecting to GitHub from Azure Boards, you will be asked

to sign in using your GitHub credentials. Choose an account for which you are an administrator for the repositories you want to connect to.

? The Add GitHub Repositories dialog automatically displays and selects all

GitHub.com repositories for which you are an administrator. Unselect any repositories that you don't want to participate in the integration.

## Add GitHub repositories

Add the GitHub repositories you want to use with your Azure Boards.

Filter by keywords

Viewing 4, 4 selected

-  JamalHart/fabrikam- apps-2
-  JamalHart/fabrikam- demo
-  JamalHart/fabrikam- open- source
-  JamalHart/fabrikam- suite

Save

Reference:  
<https://docs.microsoft.com/en-us/azure/devops/boards/github/connect-to-github>

### NEW QUESTION 129

- (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 130

DRAG DROP - (Topic 4)

You are implementing a new project in Azure DevOps.

You need to assess the performance of the protect. The solution must identify the following metrics:

- How long it takes to complete a work item
- \* The percentage of defects found in production

Which DevOps KPI should you review for each metric? To answer drag the appropriate KPIs to the correct metric. Each KPI may be used once, more than once, or not at all. You may need to drag the spirt bar between panes or scroll to view content.

NOTE Each correct selection is worth one point.

**KPIs**

- Application failure rates
- Bug report rates
- Burndown trend
- Cycle time
- Defect escape rate
- Deployment speed
- Lead time
- Mean time to recover

**Answer Area**

How long it takes to complete a work item:

The percentage of defects found in production:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 133**

- (Topic 4)

You plan to create a project in Azure DevOps. Multiple developers will work on the project. The developers will work offline frequently and will require access to the full project history while they are offline.

Which version control solution should you use?

- A. TortoiseSVN
- B. Team Foundation Version Control
- C. Subversion
- D. Git

**Answer:** D

**Explanation:**

Git history: File history is replicated on the client dev machine and can be viewed even when not connected to the server. You can view history in Visual Studio and on the web portal.

Note: Azure Repos supports two types of version control: Git and Team Foundation Version Control (TFVC).

Reference:

<https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/comparison-git-tfvc>

**NEW QUESTION 136**

- (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 141**

- (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 145**

- (Topic 4)

Your company creates a web application.

You need to recommend a solution that automatically sends to Microsoft Teams a daily summary of the exceptions that occur in the application.

Which two Azure services should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Logic Apps
- B. Azure Pipelines
- C. Microsoft Visual Studio App Center

- D. Azure DevOps Project
- E. Azure Application Insights

**Answer:** AE

**Explanation:**

E: Exceptions in your live web app are reported by Application Insights.

Note: Periodical reports help keep a team informed on how their business critical services are doing. Developers, DevOps/SRE teams, and their managers can be productive with automated reports reliably delivering insights without requiring everyone to sign in the portal. Such reports can also help identify gradual increases in latencies, load or failure rates that may not trigger any alert rules.

A: You can programmatically query Application Insights data to generate custom reports on a schedule. The following options can help you get started quickly:

Automate reports with Microsoft Flow

Automate reports with Logic Apps Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/asp-net-exceptions> <https://docs.microsoft.com/en-us/azure/azure-monitor/app/automate-custom-reports>

**NEW QUESTION 150**

- (Topic 4)

You plan to share packages that you wrote, tested, validated, and deployed by using Azure Artifacts.

You need to release multiple builds of each package by using a single feed. The solution must limit the release of packages that are in development.

What should you use?

- A. global symbols
- B. local symbols
- C. upstream sources
- D. views

**Answer:** C

**Explanation:**

Views enable you to share subsets of the NuGet, npm, Maven, Python and Universal Packages package-versions in your feed with consumers. A common use for views is to share package versions that have been tested, validated, or deployed but hold back packages still under development and packages that didn't meet a quality bar. <https://docs.microsoft.com/en-us/azure/devops/artifacts/concepts/views?view=azure-devops>

**NEW QUESTION 152**

DRAG DROP - (Topic 4)

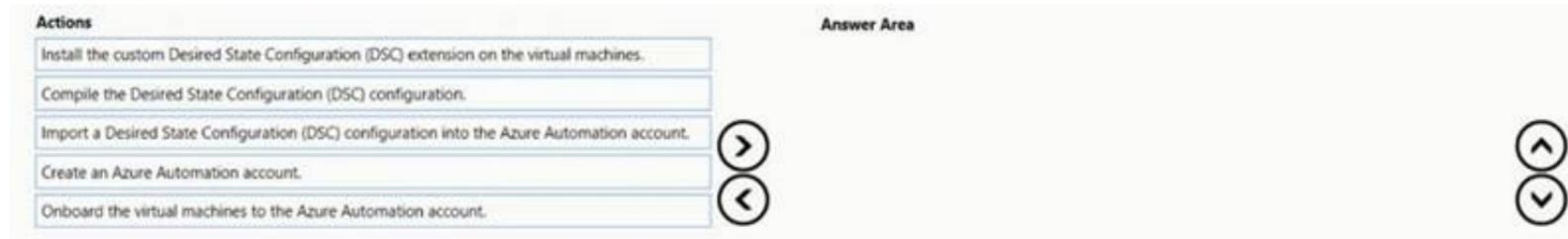
You have an Azure DevOps organization named Contoso.

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.



- 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.

**NEW QUESTION 155**

HOTSPOT - (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: 

▼
Basic
Stakeholder

Pilot users: 

▼
Basic
Stakeholder

- 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

**NEW QUESTION 156**

HOTSPOT - (Topic 4)

You are finalizing a release in GitHub.

You need to apply the following labels to the release:

- ? Name
- ? Email
- ? Release v3.0
- ? Release date

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

NOTE: Each correct selection is worth one point.

git 

▼
add
commit
push
tag

▼
-a
-b
-c
-m

 v3.0 

▼
-a
-b
-c
-m

 "Release v3.0"

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1; tag

Tagging. Like most VCSs, Get has the ability to tag specific points in a repository's history as being important. Typically, people use this functionality to mark release points (v1.0, v2.0 and so on).

Box 2: -a

Creating an annotated tag in Get is simple. The easiest way is to specify -a when you run the tag command:

Example:

\$ get tag -a v1.4 -m "my version 1.4"

Box 3: -m

**NEW QUESTION 157**

DRAG DROP - (Topic 4)

You are configuring Azure DevOps build pipelines. You plan to use hosted build agents.

Which build agent pool should you use to compile each application type? To answer, drag the appropriate built agent pools to the correct application types. Each build agent pool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Build Agent Pools**

**Answer Area**

- Hosted Windows Container
- Hosted Ubuntu 1604
- Hosted macOS
- Hosted
- Default

An application that runs on iOS:

An Internet Information Services (IIS) web application that runs in Docker:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Hosted macOS

Hosted macOS pool (Azure Pipelines only): Enables you to build and release on macOS without having to configure a self-hosted macOS agent. This option affects where your data is stored.

Box 2: Hosted

Hosted pool (Azure Pipelines only): The Hosted pool is the built-in pool that is a collection of Microsoft-hosted agents.

**NEW QUESTION 158**

- (Topic 4)

You are automating the build process for a Java-based application by using Azure DevOps. You need to add code coverage testing and publish the outcomes to the pipeline.

What should you use?

- A. Cobertura
- B. Bullseye Coverage
- C. MSTest
- D. Coverlet

**Answer:** A

**Explanation:**

Use Publish Code Coverage Results task in a build pipeline to publish code coverage results to Azure Pipelines or TFS, which were produced by a build in Cobertura or JaCoCo format.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/test/publish-code-coverage- results>

**NEW QUESTION 160**

DRAG DROP - (Topic 4)

You need to deploy a new project in Azure DevOps that has the following requirements:

- The lead developer must be able to create repositories, manage permissions, manage policies, and contribute to the repository.
- Developers must be able to contribute to the repository and create branches, but NOT bypass policies when pushing builds.
- Project managers must only be able to view the repository.
- The principle of least privilege must be used.

You create a new Azure DevOps project team for each role.

To which Azure DevOps groups should you add each team? To answer, drag the appropriate groups to the correct teams. Each group 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.

**Azure DevOps groups**

- Build Administrators
- Contributors
- Project Administrators
- Project Collection Administrators
- Project Collection Valid Users

**Answer Area**

Project manager:

Lead developer:

Developer:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Azure DevOps groups**

- Build Administrators
- Contributors
- Project Administrators
- Project Collection Administrators
- Project Collection Valid Users

**Answer Area**

Project manager: Project Collection Administrators

Lead developer: Project Administrators

Developer: Contributors

**NEW QUESTION 161**

- (Topic 4)

You use GitHub for source control

You are evaluating whether to use proxying to add a private upstream MyGet package feed to your MyGet feed. What are two possible advantages of this approach? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. minimizes latency when accessing the package
- B. provides automatic authentication
- C. minimizes the impact on your storage quota
- D. minimizes the impact of upstream source availability issues

**Answer: BC**

**NEW QUESTION 166**

- (Topic 4)

You have a GitHub repository that contains multiple versions of an Azure Pipelines template. You plan to deploy multiple pipelines that will use a template stored in the repository. You need to ensure that you use a fixed version of the template. What should you use to reference which version of the template repository to use?

- A. the runner
- B. the branch
- C. the SHA-based hashes
- D. the serial

**Answer: B**

**NEW QUESTION 170**

HOTSPOT - (Topic 4)

You have an Azure Kubernetes Service (AKS) pod.

You need to configure a probe to perform the following actions: Confirm that the pod is responding to service requests.

Check the status of the pod four times a minute. Initiate a shutdown if the pod is unresponsive.

How should you complete the YAML configuration file? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
apiVersion: v1
kind: Pod
metadata:
  labels:
    test: readiness-and-liveness
  name: readiness-http
spec:
  containers:
  - name: container1
    image: k8s.gcr.io/readiness-and-liveness
    args:
    - /server
```

▼

livenessProbe:
readinessProbe:
ShutdownProbe:
startupProbe:

```
  httpGet:
    path: /checknow
    port: 8123
    httpHeaders:
    - name: Custom-Header
      value: CheckNow
```

▼

initialDelaySeconds: 15
periodSeconds: 15
timeoutSeconds: 15

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

Box 1: readiness Probe:

For containerized applications that serve traffic, you might want to verify that your container is ready to handle incoming requests. Azure Container Instances supports readiness probes to include configurations so that your container can't be accessed under certain conditions.

**NEW QUESTION 172**

- (Topic 4)

You are designing the security validation strategy for a project in Azure DevOps.

You need to identify package dependencies that have known security issues and can be resolved by an update.

What should you use?

- A. Octopus Deploy
- B. Jenkins
- C. Gradle
- D. SonarQube

**Answer:** D

**Explanation:**

With enterprise level of SonarQube you can use OWASP that runs the security scans for known vulnerabilities. <https://www.sonarqube.org/features/security/>  
[https://www.sonarqube.org/features/security/owasp/?gclid=Cj0KCQiAzZL- BRDnARIsAPCJs70Teq0-efl2Hd\\_h-kykCB7l\\_C7L88Q7kpiuTzuD6Xw1jUb6ZqIP7O0aApVzEALw\\_wcB](https://www.sonarqube.org/features/security/owasp/?gclid=Cj0KCQiAzZL- BRDnARIsAPCJs70Teq0-efl2Hd_h-kykCB7l_C7L88Q7kpiuTzuD6Xw1jUb6ZqIP7O0aApVzEALw_wcB)

**NEW QUESTION 176**

- (Topic 4)

You are developing an application. The application source has multiple branches. You make several changes to a branch used for experimentation.

You need to update the main branch to capture the changes made to the experimentation branch and override the history of the Git repository.

Which Git option should you use?

- A. Rebase
- B. Fetch
- C. MergeE1457D5D1DDCBD40AB3BF70D5D
- D. Push

**Answer:** C

**Explanation:**

<https://docs.microsoft.com/en-us/azure/devops/repos/git/pull-requests>

**NEW QUESTION 177**

- (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 178**

DRAG DROP - (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, result Code, and duration fields.

? Only requests made the last hour. How should you complete the query?

Values	Answer Area
extend	...
project	requests
select	where [ ]
timestamp >= ago(1hr)	where resultCode == "404" and (client_City == "London" or client_City == "Paris")
timestamp -gt ago(1hr)	[ ] timestamp, url, resultCode, duration
	...

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Values	Answer Area
<input type="checkbox"/> extend	<pre> ... requests   where timestamp -gt ago(1hr)   where resultCode == "404" and (client_City == "London" or client_City == "Paris")   select timestamp, url, resultCode, duration ... </pre>
<input type="checkbox"/> project	
<input type="checkbox"/> select	
<input type="checkbox"/> timestamp >= ago(1hr)	
<input type="checkbox"/> timestamp -gt ago(1hr)	

**NEW QUESTION 181**

- (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 Assurance for the project.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

The basic idea behind Continuous Assurance (CA) is to setup the ability to check for "drift" from what is considered a secure snapshot of a system. Support for Continuous Assurance

lets us treat security truly as a 'state' as opposed to a 'point in time' achievement. This is particularly important in today's context when 'continuous change' has become a norm.

There can be two types of drift:

? Drift involving 'baseline' configuration: This involves settings that have a fixed number of possible states (often pre-defined/statically determined ones). For instance, a SQL DB can have TDE encryption turned ON or OFF...or a Storage Account may have auditing turned ON however the log retention period may be less than 365 days.

? Drift involving 'stateful' configuration: There are settings which cannot be constrained within a finite set of well-known states. For instance, the IP addresses configured to have access to a SQL DB can be any (arbitrary) set of IP addresses. In such scenarios, usually human judgment is initially required to determine whether a particular configuration should be considered 'secure' or not. However, once that is done, it is important to ensure that there is no "stateful drift" from the attested configuration. (E.g., if, in a troubleshooting session, someone adds the IP address of a developer machine to the list, the Continuous Assurance feature should be able to identify the drift and generate notifications/alerts or even trigger 'auto-remediation' depending on the severity of the change).

Reference:

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

**NEW QUESTION 182**

- (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/d80f81d6c98f8ce2c74b034309bb774ea8d31cfb/images/win/Vs2015-Server2012R2-Readme.md>

<https://github.com/actions/virtual-environments/blob/master/images/win/Windows2016-Readme.md>

**NEW QUESTION 187**

- (Topic 4)

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

You use Azure DevOps to build a containerized app named App1 and deploy App1 to an Azure container instance named ACM.

You need to restart ACI1 when App1 stops responding. What should you do?

- A. Add a liveness probe to the YAML configuration of App1.
- B. Use Connection Monitor in Azure Network Watcher.
- C. Add a readiness probe to the YAML configuration of App1.
- D. Use IP flow verify in Azure Network Watcher.

**Answer:** A

**Explanation:**

<https://docs.microsoft.com/en-us/azure/container-instances/container-instances-liveness-probe>

**NEW QUESTION 189**

DRAG DROP - (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.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 193**

- (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 195**

DRAG DROP - (Topic 3)

You need to configure authentication for App1. The solution must support the planned changes.

Which three actions should you perform in sequence? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

**Actions Commands Cmdlets Statements**

**Answer Area**

- 
- 
- 
- 
- 



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Woodgrove Bank plans to implement the following changes to the identity environment:  
 ? Configure App1 to use a service principal.

**NEW QUESTION 200**

DRAG DROP - (Topic 3)

You are configuring the Azure DevOps dashboard. The solution must meet the technical requirements.

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

NOTE: Each correct selection is worth one point.

**Widgets**

**Metrics**

- 
- 
- 
- 
- 
- 

- 1:
- 2:
- 3:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Woodgrove Bank identifies the following technical requirements:  
 ? The Azure DevOps dashboard must display the metrics shown in the following table:  
 Box 1: Velocity  
 Velocity displays your team velocity. It shows what your team delivered as compared to plan.  
 Box 2: Release pipeline overview  
 Release pipeline overview shows the status of environments in a release definition.  
 Box 3: Query tile  
 Query tile displays the total number of results from a query.

**NEW QUESTION 203**

- (Topic 3)

You need to meet the technical requirements for monitoring App1. What should you use?

- A. Splunk
- B. Azure Application Insights
- C. Azure Advisor
- D. App Service logs

Answer: B

**NEW QUESTION 204**

DRAG DROP - (Topic 2)

You need to implement Project6.

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.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Scenario: Implement Project3, Project5, Project6, and Project7 based on the planned changes

Project 6	Project6 will provide support for build and deployment pipelines. Deployment will be allowed only if the number of current work items representing active software bugs is 0.
-----------	---

Step 1: Open the release pipeline editor.

In the Releases tab of Azure Pipelines, select your release pipeline and choose Edit to open the pipeline editor.

Step 2: Enable Gates.

Choose the pre-deployment conditions icon for the Production stage to open the conditions panel. Enable gates by using the switch control in the Gates section.

Step 3: Add Query Work items.

Choose + Add and select the Query Work Items gate. Configure the gate by selecting an existing work item query.

Note: A case for release gate is:

Incident and issues management. Ensure the required status for work items, incidents, and issues. For example, ensure deployment occurs only if no priority zero

bugs exist, and validation that there are no active incidents takes place after deployment.

References:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/release/deploy-using-approvals?view=azure-devops#configure-gate>

**NEW QUESTION 205**

DRAG DROP - (Topic 2)

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

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

Actions	Answer Area
Create a fork	
Create a branch	
Add a build validation policy.	⬅
Add a build policy	➡
Create a repository	⬆
Add an application access policy.	⬇

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Create a repository

A Git repository, or repo, is a folder that you've told Git to help you track file changes in. You can have any number of repos on your computer, each stored in their own folder.

Step 2: Create a branch

Branch policies help teams protect their important branches of development. Policies enforce your team's code quality and change management standards.

Step 3: Add a build validation policy

When a build validation policy is enabled, a new build is queued when a new pull request is created or when changes are pushed to an existing pull request targeting this branch. The build policy then evaluates the results of the build to determine whether the pull request can be completed.

Scenario:

Implement a code flow strategy for Project2 that will: Enable Team2 to submit pull requests for Project2.

Enable Team2 to work independently on changes to a copy of Project2.

Ensure that any intermediary changes performed by Team2 on a copy of Project2 will be subject to the same restrictions as the ones defined in the build policy of Project2.

Project2 will use an automatic build policy. A small team of developers named Team2 will work independently on changes to the project. The Team2 members will not have permissions to Project2.

References: <https://docs.microsoft.com/en-us/azure/devops/repos/git/manage-your-branches>

**NEW QUESTION 208**

- (Topic 2)

You need to implement Project4. What should you do first?

- A. Add the FROM instruction in the Dockerfile file.
- B. Add a Copy and Publish Build Artifacts task to the build pipeline.
- C. Add a Docker task to the build pipeline.
- D. Add the MAINTAINER instruction in the Dockerfile file.

**Answer:** C

**Explanation:**

Scenario: Implement Project4 and configure the project to push Docker images to Azure Container Registry.

Project 4	Project4 will provide support for a build pipeline that creates a Docker image and pushes the image to the Azure Container Registry. Project4 will use an existing Dockerfile.
-----------	--

You use Azure Container Registry Tasks commands to quickly build, push, and run a Docker container image natively within Azure, showing how to offload your "inner-loop" development cycle to the cloud. ACR Tasks is a suite of features within Azure Container Registry to help you manage and modify container images across the container lifecycle.

References:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-quickstart-task-cli>

**NEW QUESTION 212**

**HOTSPOT - (Topic 1)**

You need to configure a cloud service to store the secrets required by the mobile applications to call the share.

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

**Required secrets:**

▼
Certificate
Personal access token
Shared Access Authorization token
Username and password

**Storage location:**

▼
Azure Data Lake
Azure Key Vault
Azure Storage with HTTP access
Azure Storage with HTTPS access

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Every request made against a storage service must be authorized, unless the request is for a blob or container resource that has been made available for public or signed access. One option for authorizing a request is by using Shared Key.

Scenario: The mobile applications must be able to call the share pricing service of the existing retirement fund management system. Until the system is upgraded, the service will only support basic authentication over HTTPS.

The investment planning applications suite will include one multi-tier web application and two iOS mobile application. One mobile application will be used by employees; the other will be used by customers.

References: <https://docs.microsoft.com/en-us/rest/api/storageservices/authorize-with-shared-key>

**NEW QUESTION 213**

**HOTSPOT - (Topic 1)**

How should you configure the release retention policy for the investment planning applications suite? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Global release:**

▼
Set the default retention policy to 30 days.
Set the maximum retention policy to 30 days.
Set the stage retention policy to 30 days.
Set the stage retention policy to 60 days.

**Production stage:**

▼
Set the default retention policy to 30 days.
Set the maximum retention policy to 60 days.
Set the stage retention policy to 30 days.
Set the stage retention policy to 60 days.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Scenario: By default, all releases must remain available for 30 days, except for production releases, which must be kept for 60 days.

Box 1: Set the default retention policy to 30 days

The Global default retention policy sets the default retention values for all the build pipelines. Authors of build pipelines can override these values.

Box 2: Set the stage retention policy to 60 days

You may want to retain more releases that have been deployed to specific stages. References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/policies/retention>

**NEW QUESTION 218**

**- (Topic 1)**

You have Azure Pipelines and GitHub integrated as a source code repository. The build pipeline has continuous integration enabled.

You plan to trigger an automated build whenever code changes are committed to the repository. You need to ensure that the system will wait until a build completes before queuing another build. What should you implement?

- A. path filters
- B. batch changes
- C. scheduled builds
- D. branch filters

**Answer: B**

**Explanation:**

Batching CI runs

If you have many team members uploading changes often, you may want to reduce the number of runs you start. If you set batch to true, when a pipeline is running, the system waits until the run is completed, then starts another run with all changes that have not yet been built.

Example:

# specific branch build with batching trigger:

batch: true branches: include:

- master

To clarify this example, let us say that a push A to master caused the above pipeline to run. While that pipeline is running, additional pushes B and C occur into the repository. These updates do not start new independent runs immediately. But after the first run is completed, all pushes until that point of time are batched together and a new run is started.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/repos/github>

**NEW QUESTION 220**

- (Topic 1)

You have a project in Azure DevOps.

You plan to deploy a self-hosted agent by using an unattended configuration script. Which two values should you define in the configuration script? Each correct answer

presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. authorization credentials
- B. the project name
- C. the deployment group name
- D. the organization URL
- E. the agent pool name

**Answer: CE**

**Explanation:**

Unattended config:

The agent can be set up from a script with no human intervention. You must pass -- unattended and the answers to all questions.

To configure an agent, it must know the URL to your organization or collection and credentials of someone authorized to set up agents. All other responses are optional. Reference:

<https://docs.microsoft.com/en-us/azure/devops/pipelines/agents/v2-windows>

**NEW QUESTION 223**

HOTSPOT - (Topic 1)

How should you configure the release retention policy for the investment planning depletions suite? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Required secrets:

Certificate
Personal access token
Shared Access Authorization token
Username and password

Storage location:

Azure Data Lake
Azure Key Vault
Azure Storage with HTTP access
Azure Storage with HTTPS access

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Every request made against a storage service must be authorized, unless the request is for a blob or container resource that has been made available for public or signed access. One option for authorizing a request is by using Shared Key.

Scenario: The mobile applications must be able to call the share pricing service of the existing retirement fund management system. Until the system is upgraded, the service will only support basic authentication over HTTPS.

The investment planning applications suite will include one multi-tier web application and two iOS mobile application. One mobile application will be used by employees; the other will be used by customers.

References: <https://docs.microsoft.com/en-us/rest/api/storageservices/authorize-with-shared-key>

#### NEW QUESTION 227

- (Topic 4)

You have an app named App1 that you release by using Azure Pipelines. App1 has the versions shown in the following table.

You complete a code change to fix a bug that was introduced in version 3.4.3. Which version number should you assign to the release?

- A. 3.4.4
- B. 3.4.8
- C. 3.5.0
- D. 4.0.1

**Answer:** D

#### NEW QUESTION 232

- (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 30day period.

Reference:

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

#### NEW QUESTION 235

- (Topic 4)

Your company plans to use an agile approach to software development

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

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

- A. Octopus
- B. Bamboo
- C. Microsoft Project
- D. Slack

**Answer:** D

#### Explanation:

Slack is a popular team collaboration service that helps teams be more productive by keeping all communications in one place and easily searchable from virtually anywhere. All your messages, your files, and everything from Twitter, Dropbox, Google Docs, Azure DevOps, and more all together. Slack also has fully native apps for iOS and Android to give you the full functionality of Slack wherever you go.

Integrated with Azure DevOps

This integration keeps your team informed of activity happening in its Azure DevOps projects. With this integration, code check-ins, pull requests, work item updates, and build events show up directly in your team's Slack channel.

Note: Microsoft Teams would also be a correct answer, but it is not an option here. References:

<https://marketplace.visualstudio.com/items?itemName=ms-vsts.vss-services-slack>

#### NEW QUESTION 237

- (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 pipeline caching.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

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 241**

- (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 246**

DRAG DROP - (Topic 4)

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

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

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 247**

- (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 252**

SIMULATION - (Topic 4)

You need to create and configure an Azure Storage account named az400lod11566895stor in a resource group named RG1lod11566895 to store the boot diagnostics for a virtual machine named VM1.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

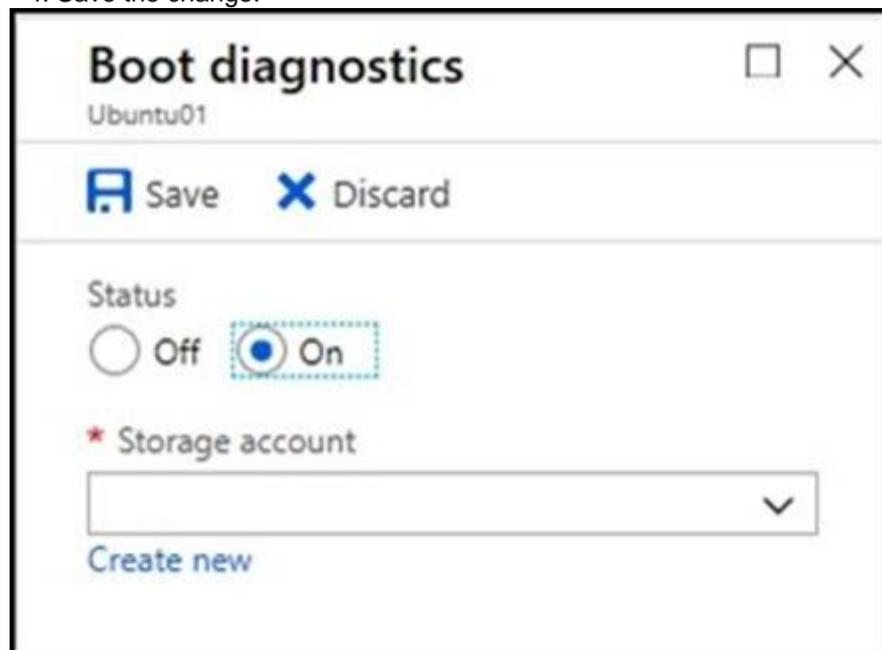
Step 1: To create a general-purpose v2 storage account in the Azure portal, follow these steps:

- ? On the Azure portal menu, select All services. In the list of resources, type Storage Accounts. As you begin typing, the list filters based on your input. Select Storage Accounts.
- ? On the Storage Accounts window that appears, choose Add.
- ? Select the subscription in which to create the storage account.
- ? Under the Resource group field, select RG1lod11566895
- ? Next, enter a name for your storage account named: az400lod11566895stor
- ? Select Create.

Step 2: Enable boot diagnostics on existing virtual machine

To enable Boot diagnostics on an existing virtual machine, follow these steps:

- \* 1. Sign in to the Azure portal, and then select the virtual machine VM1.
- \* 2. In the Support + troubleshooting section, select Boot diagnostics, then select the Settings tab.
- \* 3. In Boot diagnostics settings, change the status to On, and from the Storage account drop-down list, select the storage account az400lod11566895stor.
- \* 4. Save the change.



You must restart the virtual machine for the change to take effect.

**NEW QUESTION 257**

- (Topic 4)

You have a web app hosted on Azure App Service. The web app stores data in an Azure SQL database.

You need to generate an alert when there are 10,000 simultaneous connections to the database. The solution must minimize development effort.

Which option should you select in the Diagnostics settings of the database?

- A. Send to Log Analytics
- B. Stream to an event hub
- C. Archive to a storage account

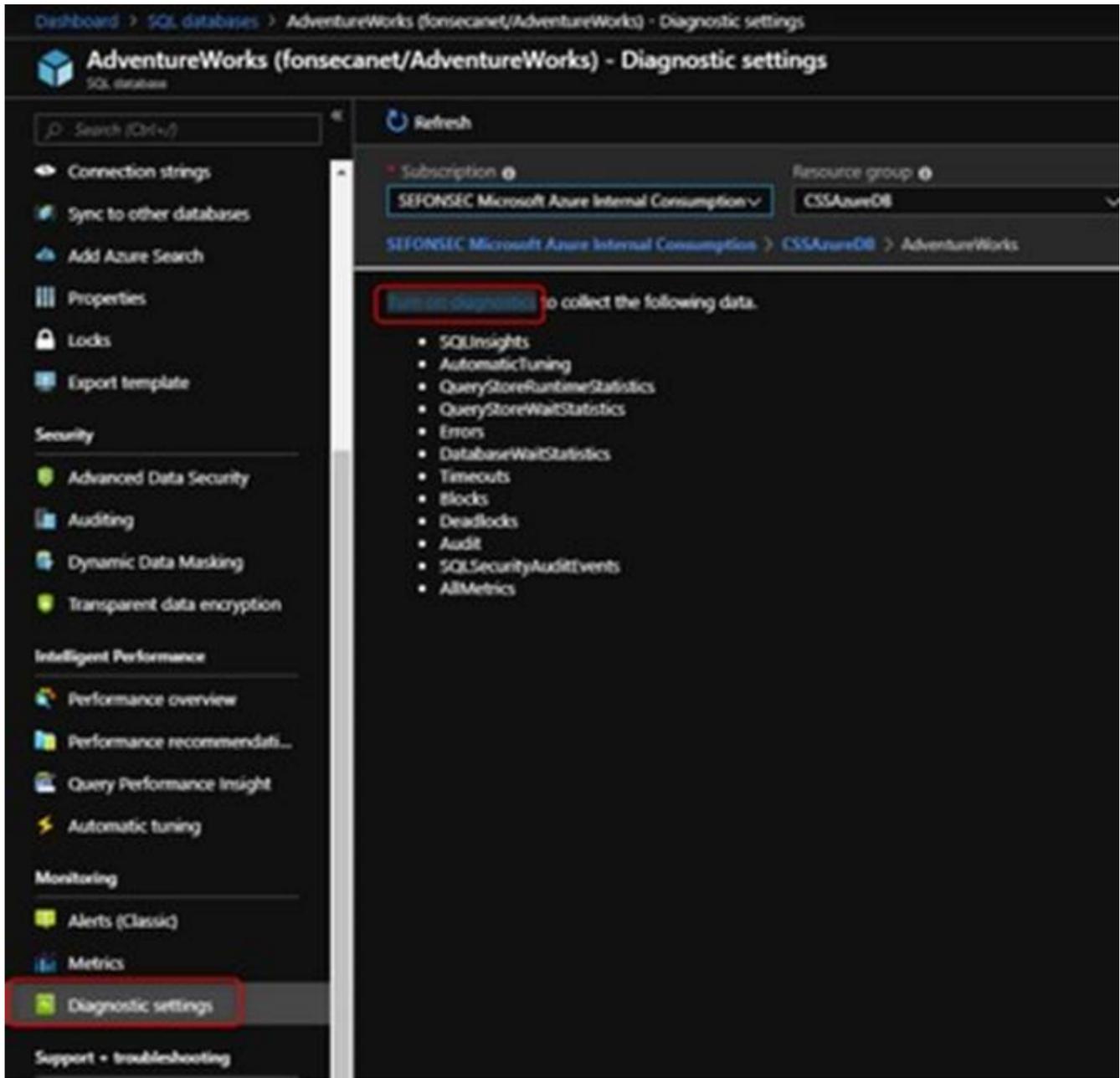
**Answer:** A

**Explanation:**

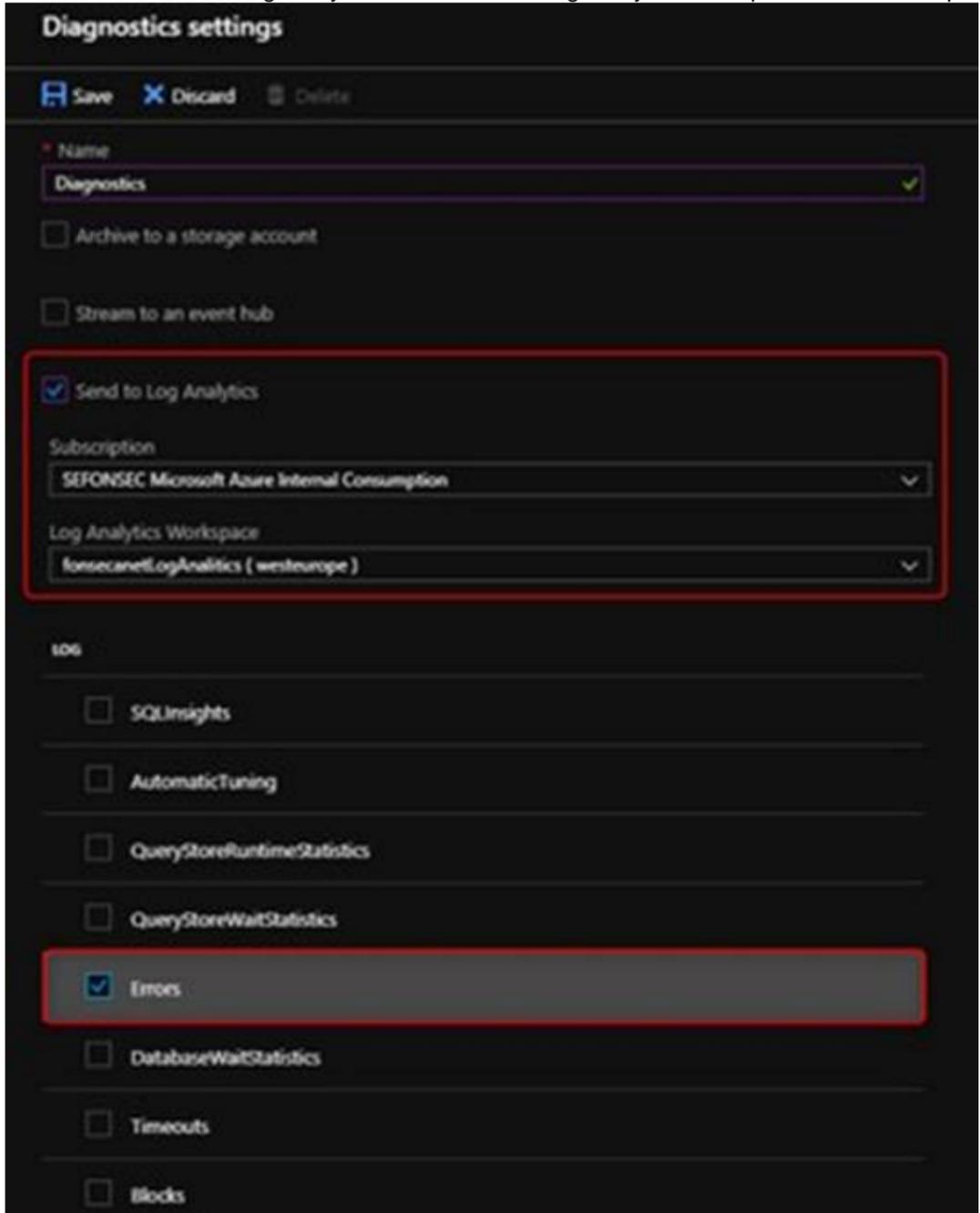
ENABLE DIAGNOSTICS TO LOG ANALYTICS

This configuration is done PER DATABASE

- \* 1. Click on Diagnostics Settings and then Turn On Diagnostics



\* 2. Select to Send to Log Analytics and select the Log Analytics workspace. For this sample I will selected only Errors



Graphical user interface Description automatically generated with medium confidence

Reference:

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

**NEW QUESTION 262**

- (Topic 4)

Your company is building a new solution in Java.

The company currently uses a SonarQube server to analyze the code of .NET solutions. You need to analyze and monitor the code quality of the Java solution.

Which task types should you add to the build pipeline?

- A. Octopus
- B. Chef
- C. Maven
- D. Grunt

**Answer: A**

**NEW QUESTION 263**

- (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 266**

- (Topic 4)

You have a GitHub repository.

You create a new repository in Azure DevOps.

You need to recommend a procedure to clone the repository from GitHub to Azure DevOps.

What should you recommend?

- A. Create a pull request.
- B. Create a webhook.
- C. Create a service connection for GitHub.
- D. From Import a Git repository, click Import.
- E. Create a personal access token in Azure DevOps.

**Answer: D**

**Explanation:**

You can import an existing Git repo from GitHub, Bitbucket, GitLab, or other location into a new or empty existing repo in your project in Azure DevOps.

Import into a new repo

? Select Repos, Files.

? From the repo drop-down, select Import repository.

? If the source repo is publicly available, just enter the clone URL of the source repository and a name for your new Git repository.

References:

<https://docs.microsoft.com/en-us/azure/devops/repos/git/import-git-repository?view=azure-devops>

**NEW QUESTION 269**

- (Topic 4)

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

Name	Type
DepPipeline1	Azure DevOps deployment pipeline
ADFPipeline1	Azure Data Factory pipeline
Vault1	Azure Key Vault

DepPipeline1 and ADFPipeline1 use a single credential that is stored in Vault1. You need to configure ADFPipeline1 to retrieve the credential from Vault1. Which type of activity should you use?

- A. Web
- B. Copy
- C. Lookup
- D. Get Metadata

Answer: A

**NEW QUESTION 270**

- (Topic 4)

You are integrating an Azure Boards project and a GitHub repository. You need to authenticate Azure Boards to GitHub. Which two authentication methods can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. a trusted root certificate
- B. a publisher certificate
- C. Azure Active Directory (Azure AD)
- D. GitHub user credentials
- E. a personal access token (PAT)

Answer: CD

**NEW QUESTION 272**

HOTSPOT - (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

**NEW QUESTION 273**

HOTSPOT - (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 278**

- (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 pipeline that is used to deploy a web app. The pipeline includes a test suite named TestSuite1. TestSuite1 is used to validate the operations of the web app.

TestSuite1 fails intermittently.

You identify that the failures are unrelated to changes in the source code and execution environment.

You need to minimize troubleshooting effort for the TestSuite1 failures. Solution: You enable flaky test management.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**NEW QUESTION 281**

- (Topic 4)

You use a Git repository in Azure Repos to manage the source code of a web application. Developers commit changes directly to the master branch.

You need to implement a change management procedure that meets the following requirements:

The master branch must be protected, and new changes must be built in the feature branches first.

Changes must be reviewed and approved by at least one release manager before each merge.

Changes must be brought into the master branch by using pull requests. What should you configure in Azure Repos? D18912E1457D5D1DDCDBD40AB3BF70D5D

- A. branch policies of the master branch
- B. Services in Project Settings
- C. Deployment pools in Project Settings
- D. branch security of the master branch

**Answer:** A

**Explanation:**

Branch policies help teams protect their important branches of development.

Policies enforce your team's code quality and change management standards. Reference:

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

**NEW QUESTION 286**

- (Topic 4)

During a code review, you discover many quality issues. Many modules contain unused variables and empty catch Modes. You need to recommend a solution to improve the quality o' the code. What should you recommend?

- A. In a Gradle build task, select Run Checkstyle.
- B. In an Xcode build task, select Use xcpretty from Advanced
- C. In a Grunt build task, select Enabled from Control Options.
- D. In a Maven build task, select Run PMD.

**Answer:** D

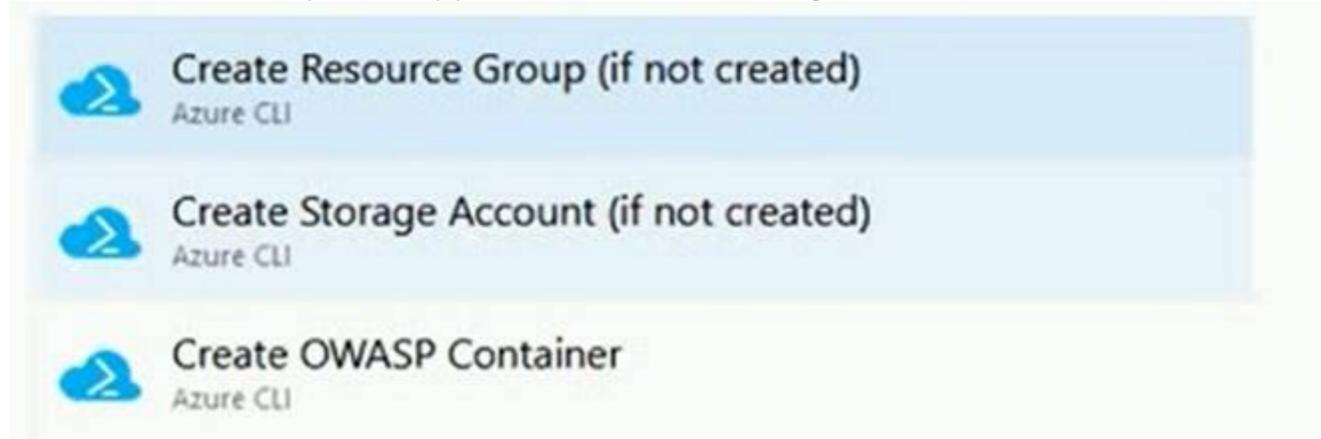
**Explanation:**

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. References: <https://pmd.github.io/>

**NEW QUESTION 291**

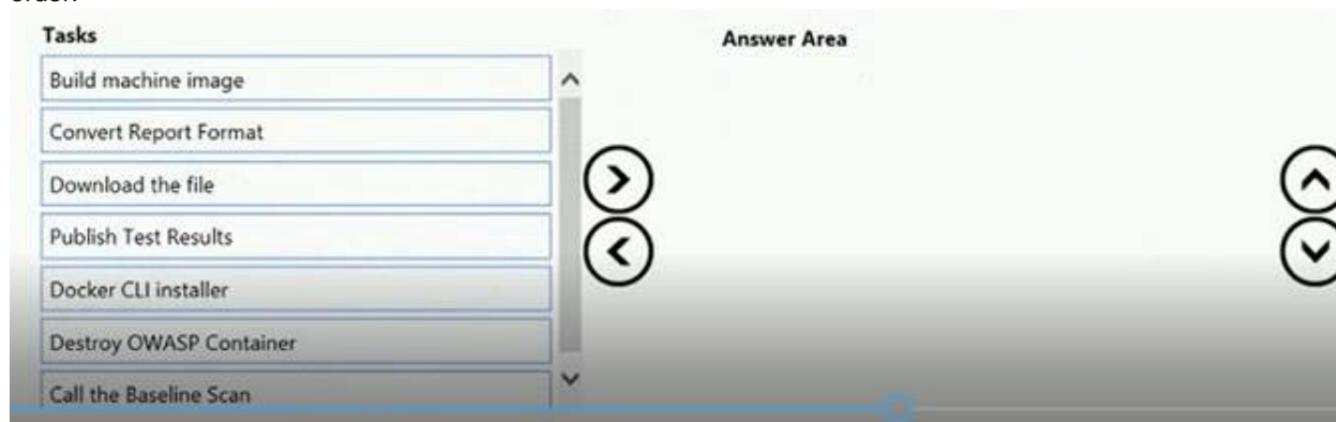
DRAG DROP - (Topic 4)

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.



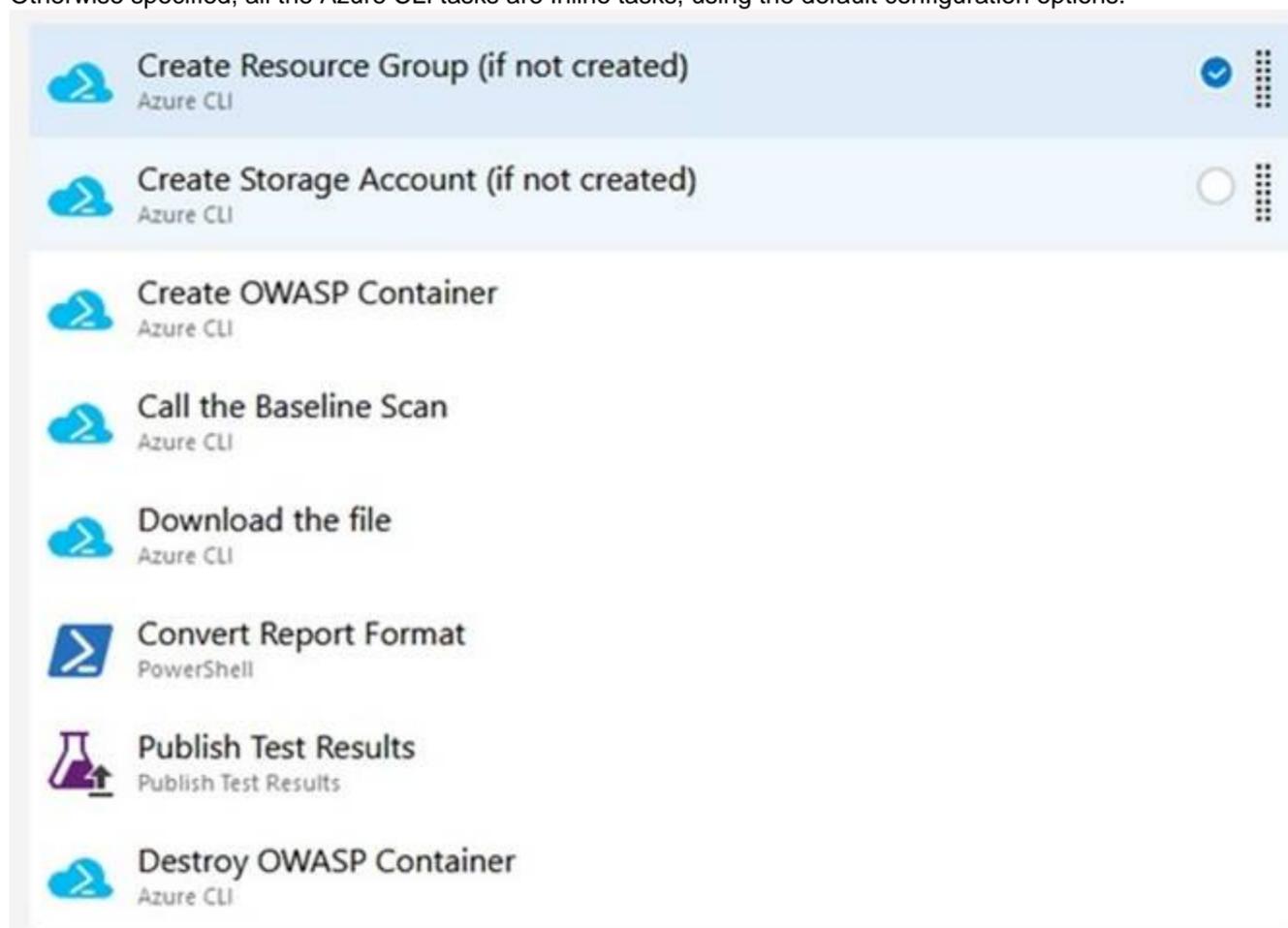
- A. Mastered
- B. Not Mastered

**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.



**NEW QUESTION 294**

- (Topic 4)

You use Calendar Versioning (CalVer) for code assets.

You need to store an optional tag of beta as part of the version. Which part of the version should you use for the tag?

- A. micro
- B. minor
- C. major
- D. modifier

**Answer: D**

**NEW QUESTION 297**

- (Topic 4)

You have a build pipeline in Azure Pipelines. You create a Slack App Integration.

You need to send build notifications to a Slack channel named #Development. What should you do first?

- A. Configure a service connection.
- B. Create a service hook subscription.
- C. Create a project-level notification.
- D. Create a global notification.

**Answer: B**

**Explanation:**

Create a service hook for Azure DevOps with Slack to post messages to Slack in response to events in your Azure DevOps organization, such as completed builds, code changes, pull requests, releases, work items changes, and more.

Note:

- \* 1. Go to your project Service Hooks page: [https://{orgName}/{project\\_name}/\\_settings/serviceHooksSelect](https://{orgName}/{project_name}/_settings/serviceHooksSelect) Create Subscription.
- \* 3. Choose the types of events you want to appear in your Slack channel.
- \* 4. Paste the Web Hook URL from the Slack integration that you created and select Finish.
- \* 5. Now, when the event you configured occurs in your project, a notification appears in your team's Slack channel.

Reference:

<https://docs.microsoft.com/en-us/azure/devops/service-hooks/services/slack>

**NEW QUESTION 300**

- (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 9pm packages that are published to Feed 1. 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 9pm packages test successfully, configure a release pipeline that promotes a package to the @default view.
- C. Create a feed view named release and set @release as the default view
- D. After the 9pm packages test successfully, configure a release pipeline that promotes a package to the @release View.
- E. Create a feed view named @release and set @release as the default view
- F. After the 9pm packages test successfully, configure a release pipeline that tags the packages as release.
- G. Create a feed view named @default
- H. After the 9pm packages test successful
- I. configure a release pipeline that tags the packages as release.

**Answer: C**

**NEW QUESTION 305**

- (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 307**

- (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 309**

- (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 312**

SIMULATION - (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

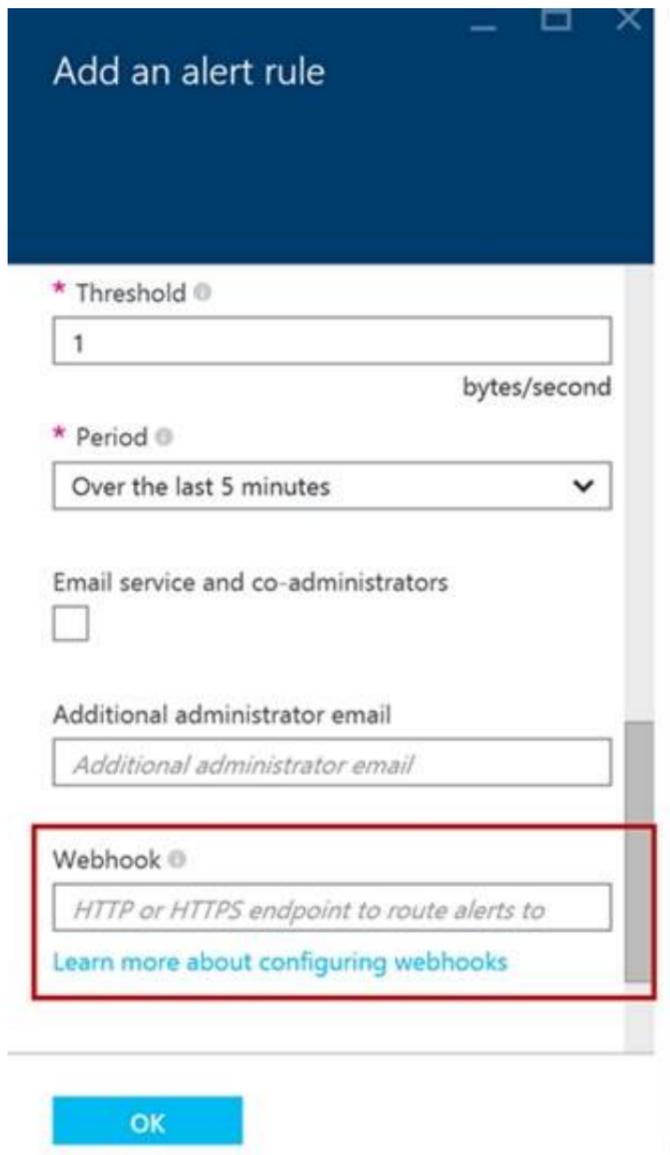
Resource Group: az400-9940427-main

Resource: az400-9940427-main

Threshold: 5

Period: Over the last 5 minutes

Webhook: https://contoso.com/notify



#### NEW QUESTION 314

- (Topic 4)

You have an Azure subscription that contains four Azure virtual machines

You need to configure the virtual machines to use a single identity. The solution must meet the following requirements:

- Ensure that the credentials for the identity are managed automatically.
- Support granting privileges to the identity. Which type of identity should you use?

- A. a service principal
- B. a user-assigned managed identity
- C. a system-assigned managed identity
- D. a user account

**Answer:** C

#### Explanation:

System-assigned managed identities enable Azure resources to authenticate to cloud services without storing credentials in code. They also support granting privileges to the identity, making them the ideal choice for this scenario. Source: Microsoft

#### NEW QUESTION 318

- (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 Monitor, create an action group.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

#### Explanation:

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

Reference:

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

#### NEW QUESTION 319

- (Topic 4)

Your development team is building a new web solution by using the Microsoft Visual Studio integrated development environment (IDE).

You need to make a custom package available to all the developers. The package must be managed centrally, and the latest version must be available for consumption in Visual Studio automatically. Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Publish the package to a feed.
- B. Create a new feed in Azure Artifacts.
- C. Upload a package to a Git repository.
- D. Add the package URL to the Environment settings in Visual Studio.
- E. Add the package URL to the NuGet Package Manager settings in Visual Studio.
- F. Create a Git repository in Azure Repos.

**Answer:** ABE

**Explanation:**

B: By using your custom NuGet package feed within your Azure DevOps (previously VSTS) instance, you'll be able to distribute your packages within your organization with ease. Start by creating a new feed.

A: We can publish, pack and push the built project to our NuGet feed. E: Consume your private NuGet Feed

Go back to the Packages area in Azure DevOps, select your feed and hit "Connect to feed". You'll see some

instructions for your feed, but it's fairly simple to set up.

Just copy your package source URL, go to Visual Studio, open the NuGet Package Manager, go to its settings and add a new source. Choose a fancy name, insert the source URL. Done.

Search for your package in the NuGet Package Manager and it should appear there, ready for installation.

Make sure to select the appropriate feed (or just all feeds) from the top right select box. References:

<https://medium.com/medialesson/get-started-with-private-nuget-feeds-in-azure-devops-8c7b5f022a68>

**NEW QUESTION 320**

- (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 322**

HOTSPOT - (Topic 4)

You have an Azure Kubernetes Service (AKS) pod.

You need to configure a probe to perform the following actions:

? Confirm that the pod is responding to service requests.

? Check the status of the pod four times a minute.

? Initiate a shutdown if the pod is unresponsive.

How should you complete the YAML configuration file? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

```

apiVersion: v1
kind: Pod
metadata:
  labels:
    test: readiness-and-liveness
  name: readiness-http
spec:
  containers:
  - name: container1
    image: k8s.gcr.io/readiness-and-liveness
    args:
    - /server
    livenessProbe:
    readinessProbe:
    shutdownProbe:
    startupProbe:
    httpGet:
      path: /checknow
      port: 8123
      httpHeaders:
      - name: Custom-Header
        value: CheckNow
      initialDelaySeconds: 15
      periodSeconds: 15
      timeoutSeconds: 15
  
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: readiness Probe:

For containerized applications that serve traffic, you might want to verify that your container is ready to handle incoming requests. Azure Container Instances supports readiness probes to include configurations so that your container can't be accessed under certain conditions.

**NEW QUESTION 325**

- (Topic 4)

You are automating the build process for a Java-based application by using Azure DevOps. You need to add code coverage testing and publish the outcomes to the pipeline.

What should you use?

- A. Cobertura
- B. JUnit
- C. Coverage.py
- D. Bullseye Coverage

**Answer:** A

**NEW QUESTION 330**

DRAG DROP - (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 DevOps 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**

- Administrator
- Reader
- Service Account
- User

Organization:

Project:

- 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 333**

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