

Microsoft

Exam Questions AZ-400

Microsoft Azure DevOps Solutions (beta)



NEW QUESTION 1

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 prefect 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 Triggers tab of the build pipeline, you selected Batch changes while a build is in progress

Does this meet the goal?

A. Yes

B. No

Answer: B

NEW QUESTION 2

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

1. Minimizes image sizes

2. Minimizes the security surface area of the final image What should you include in the recommendation?

A. multi-stage builds

B. single-stage builds

C. PowerShell Desired State Configuration (DSC)

D. Docker Swarm

Answer: A

Explanation:

Multi-stage builds are a new feature requiring Docker 17.05 or higher on the daemon and client. Multistage builds are useful to anyone who has struggled to optimize Dockerfiles while keeping them easy to read and maintain. References: <https://docs.docker.com/develop/develop-images/multistage-build/>

NEW QUESTION 3

DRAG DROP

You have an Azure Kubernetes 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 configure Azure Container Instances as a hosted environment for running the containers in AKS. 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
Run <code>helm init.</code>	
Run <code>az aks install-connector.</code>	
Create a YAML file.	
Run <code>az role assignment create</code>	
Run <code>kubectl apply.</code>	

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 4

HOTSPOT

You have a project in 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": 
      {
        "Microsoft.KeyVault/vaults",
        "Microsoft.Resources/deployment",
        "Microsoft.Subscription/subscriptions".
      }

      "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",
        :{
          "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')]"
        }
      }
    }
  ],

```

```
},
"parameters":{
  "secret":{
    "reference":{
      "keyVault":{
        "id": "[resourceId(parameters('vaultSubscription'),
          parameters('vaultResourceGroupName'),
          'Microsoft.KeyVault/vaults',
          parameters('vaultName'))]"
      },
      "secretName": "[parameters('secretName')]"
    }
  }
}
```

NEW QUESTION 5

DRAG DROP

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

You need to recommend a solution for accessing the secrets stored in the key vault during deployments. The solution must use the principle of least privilege. What should you include in the recommendation? To answer, drag the appropriate configurations to the correct targets. Each configuration may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

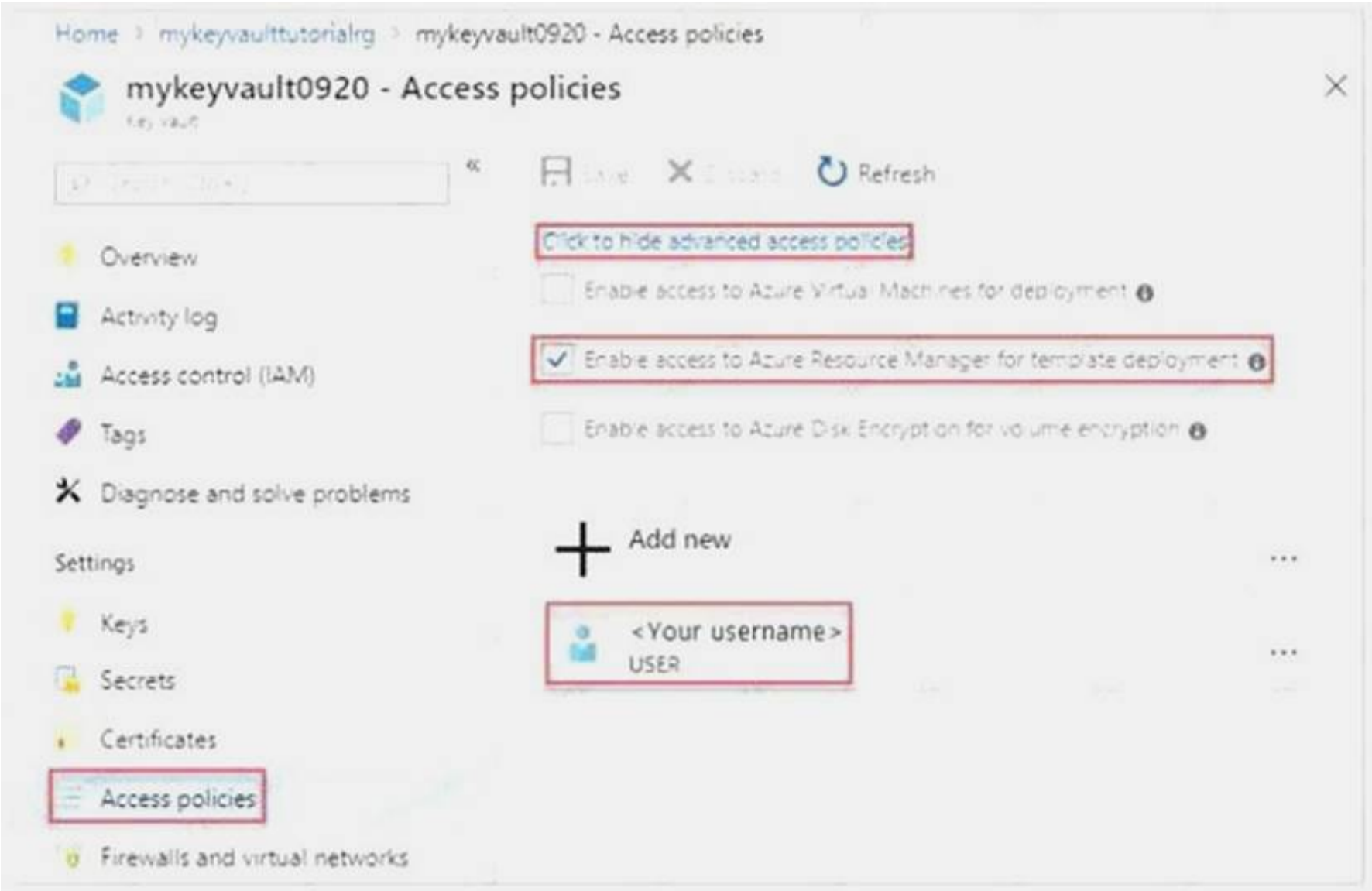
Configurations	Answer Area
A Key Vault access policy	Enable key vaults for template deployment by using: <input type="text"/>
A Key Vault advanced access policy	Restrict access to the secrets in Key Vault by using: <input type="text"/>
RBAC	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: A key Vault advanced access policy



Box 2: RBAC

Management plane access control uses RBAC.

The management plane consists of operations that affect the key vault itself, such as:

„hCreating or deleting a key vault.

„hGetting a list of vaults in a subscription.

„hRetrieving Key Vault properties (such as SKU and tags).

„hSetting Key Vault access policies that control user and application access to keys and secrets.

References: <https://docs.microsoft.com/en-us/azure/azure-resourcemanager/resource-manager-tutorial-use-key-vault>

NEW QUESTION 6

DRAG DROP

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

iE Ten virtual machines hosted in Azure.

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

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

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

Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or soon to view content

NOTE: Each correct selection n worth one point.

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

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: A deployment group

When authoring an Azure Pipelines or TFS Release pipeline, you can specify the deployment targets for a job using a deployment group.

If the target machines are Azure VMs, you can quickly and easily prepare them by installing the Azure Pipelines Agent Azure VM extension on each of the VMs, or by using the Azure Resource Group Deployment task in your release pipeline to create a deployment group dynamically.

Box 2: A deployment group
 References: <https://docs.microsoft.com/enus/ azure/devops/pipelines/release/deployment-groups>

NEW QUESTION 7

DRAG DROP

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

¡E Use a project agent pool when authoring build release pipelines.

¡E View the agent pool and agents of the organization.

¡E Use the principle of least privilege.

Which role memberships are required for the Azure 0e%Oos organization and the project? To answer, drag the appropriate role membership to the correct targets.

Each role membership may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to content

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Reader

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

Box 2: Service account

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

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

In addition to all the permissions given the Reader and the Service Account role, members of the administrator role can register or unregister agents from the organization agent pool. They can also refer to the organization agent pool when creating a project agent pool in a project. Finally, they can also manage membership for all roles of the organization agent pool. The user that created the organization agent pool is automatically added to the Administrator role for that pool.

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

NEW QUESTION 8

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:

¡E Consolidate commit histories

¡E 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-withQuestions>
 & Answers PDF P-43 squash

NEW QUESTION 9

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: D

Explanation:

You can authenticate as a GitHub App.

References: <https://developer.github.com/apps/building-github-apps/authenticating-with-github-apps/>

NEW QUESTION 10

Your company uses Service Now for incident management. You develop an application that runs on Azure. The company needs to generate a ticket in Service Now when the application fails to authenticate. Which Azure Log Analytics solution should you use?

- A. Automation & Control
- B. IT Service Management Connector (ITSM)
- C. Application Insights Connector
- D. Insight & Analytics

Answer: B

Explanation:

The IT Service Management Connector (ITSMC) allows you to connect Azure and a supported IT Service Management (ITSM) product/service. ITSMC supports connections with the following ITSM tools:

„ServiceNow

„System Center Service Manager

„Provision

„Cherwell

With ITSMC, you can

„Create work items in ITSM tool, based on your Azure alerts (metric alerts, Activity Log alerts and Log Analytics alerts).

„Optionally, you can sync your incident and change request data from your ITSM tool to an Azure Log Analytics workspace.

References: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/itsmcoverview>

NEW QUESTION 10

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.

- A. 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.
- B. What should you include in the recommendation?
- C. Azure Application Insights
- D. Azure SQL Database Intelligent Insights
- E. Azure Event Hubs
- F. Azure Log Analytics

Answer: D

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/collectazurepass-posh>

NEW QUESTION 14

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.

„hThe 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.

„hTeams integrates with Azure DevOps. References:

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

NEW QUESTION 17

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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

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

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

Solution: From Pre-deployment conditions, you modify the Time between reevaluation of gates option.

Does this meet the goal?

A. Yes

B. No

Answer: A

Explanation:

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/enus/ azure/devops/pipelines/release/approvals/gates>

Approvals and gates give you additional control over the start and completion of the deployment pipeline. Each stage in a release pipeline can be configured with predeployment and post-deployment conditions that can include waiting for users to

manually approve or reject deployments, and checking with other automated systems until specific conditions are verified.

NEW QUESTION 19

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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

„hTwo resource groups

„hFour Azure virtual machines in one resource group

„hTwo Azure SQL databases in other resource group

You need to recommend a solution to deploy the resources.

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

Does this meet the goal?

A. Yes

B. No

Answer: A

Explanation:

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

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

NEW QUESTION 24

Your company develops a client banking application that processes a large volume of data.

Code quality is an ongoing issue for the company. Recently, the code quality has deteriorated because of an increase in time pressure on the development team.

You need to implement static code analysis.

During which phase should you use static code analysis?

A. build

B. production release

C. staging

D. integration testing

Answer: B

NEW QUESTION 26

HOTSPOT

How should you complete the code to initialize App Center in the mobile application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection a worth one point.

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

[MSAnalytics.self,
[MSDistribute.self,
[MSPush.self,

MSAnalytics.self]
MSCrashes.self]
MSDistribute.self]

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Scenario: Visual Studio App Center must be used to centralize the reporting of mobile application crashes and device types in use.

In order to use App Center, you need to opt in to the service(s) that you want to use, meaning by default no services are started and you will have to explicitly call each of them when starting the SDK.

Insert the following line to start the SDK in your app's AppDelegate class in the didFinishLaunchingWithOptions method.

MSAppCenter.start("{Your App Secret}", withServices: [MSAnalytics.self, MSCrashes.self])


References: <https://docs.microsoft.com/en-us/appcenter/sdk/getting-started/ios>


NEW QUESTION 31

HOTSPOT

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/enus/azure/devops/pipelines/policies/retention>

NEW QUESTION 36

DRAG DROP

You need to implement the code flow strategy for Project2 in Azure DevOps. Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange 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-yourbranches>

NEW QUESTION 40

DRAG DROP

You need to configure Azure Automation for the computers in Pool7.
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.

Run the New-AzureRmResourceGroupDeployment Azure PowerShell cmdlet.

Create an Azure Resource Manager template file that has an extension of .json.

Run the Import-AzureRmAutomationDscConfiguration Azure PowerShell cmdlet.

Run the Start-AzureRmAutomationDscCompilationJob Azure PowerShell cmdlet.

Create a Desired State Configuration (DSC) configuration file that has an extension of .ps1.

1

2

3

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- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Run the New-AzureRmResourceGroupDeployment Azure PowerShell cmdlet.

Create an Azure Resource Manager template file that has an extension of .json.

>

<

Answer Area

1

Create a Desired State Configuration (DSC) configuration file that has an extension of .ps1.

2

Run the Import-AzureRmAutomationDscConfiguration Azure PowerShell cmdlet.

3

Run the Start-AzureRmAutomationDscCompilationJob Azure PowerShell cmdlet.

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NEW QUESTION 42

DRAG DROP

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.

Actions

Open the release pipeline editor.

Open the **Triggers** tab.

Disable the continuous integration trigger.

Enable Gates.

Add a manual intervention task.

Add Query Work Items.

>

<

Answer Area

1

2

3

<

>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Open the release pipeline editor.

Open the **Triggers** tab.

Disable the continuous integration trigger.

>

<

Answer Area

1

Add a manual intervention task.

2

Add Query Work Items.

3

Enable Gates.

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NEW QUESTION 44

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