

AZ-400 Dumps

Microsoft Azure DevOps Solutions (beta)

<https://www.certleader.com/AZ-400-dumps.html>



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.

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

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

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

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

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a gate From Pre-deployment conditions instead. References: <https://docs.microsoft.com/enus/azure/devops/pipelines/release/approvals/gates>

NEW QUESTION 2

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

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

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

Solution: From Pre-deployment conditions, you modify the Timeout setting for predeployment approvals.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a gate instead of an approval instead.

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

NEW QUESTION 3

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 4

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 your 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 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 rbacvirtual- 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 5

DRAG DROP

You need to use Azure Automation Sure Configuration to manage the ongoing consistency of virtual machine configurations.

Which five 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the orders you select.

Actions	Answer Area
Onboard the virtual machines to Azure Automation State Configuration.	
Check the compliance status of the node.	
Create a management group.	
Assign the node configuration.	
Compile a configuration into a node configuration.	
Upload a configuration to Azure Automation State Configuration.	
Assign tags to the virtual machines.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Assign the node configuration.

You create a simple DSC configuration that ensures either the presence or absence of the Web-Server Windows Feature (IIS), depending on how you assign nodes. Step 2: Upload a configuration to Azure Automation State Configuration.

You import the configuration into the Automation account. Step 3: Compiling a configuration into a node configuration Compiling a configuration in Azure Automation

Before you can apply a desired state to a node, a DSC configuration defining that state must be compiled into one or more node configurations (MOF document),

and placed on the Automation DSC Pull Server.

Step 4: Onboard the virtual machines to Azure State Configuration Onboarding an Azure VM for management with Azure Automation State Configuration

Step 5: Check the compliance status of the node.

Viewing reports for managed nodes. Each time Azure Automation State Configuration performs a consistency check on a managed node, the node sends a status report back to the pull server. You can view these reports on the page for that node.

On the blade for an individual report, you can see the following status information for the corresponding consistency check:

The report status is either "Compliant", the configuration "Failed", or the node is "Not Compliant" (when the node is in ApplyandMonitor mode and the machine is not in the desired state).

References: <https://docs.microsoft.com/en-us/azure/automation/automation-dscgetting-started>

NEW QUESTION 6

Your company builds a multi tier web application.

>You use Azure DevOps and host the production application on Azure virtual machines.

Your team prepares an Azure Resource Manager template of the virtual machine that you will use to test new features.

You need to create a staging environment in Azure that meets the following requirements:

• Minimizes the cost of Azure hosting

• Provisions the virtual machines automatically

• Uses the custom Azure Resource Manager template to provision the virtual machines

What should you do?

A. In Azure DevOps, configure new tasks in the release pipeline to create and delete the virtual machines in Azure DevTest Labs.

B. From Azure Cloud Shell, run Azure PowerShell commands to create and delete the new virtual machines in a staging resource group.

C. In Azure DevOps, configure new tasks in the release pipeline to deploy to Azure Cloud Services.

D. In Azure Cloud Shell, run Azure CLI commands to create and delete the new virtual machines in a staging resource group.

Answer: A

Explanation:

You can use the Azure DevTest Labs Tasks extension that's installed in Azure DevOps to easily integrate your CI/CD build-and-release pipeline with Azure DevTest Labs. The extension installs three tasks:

• Create a VM

• Create a custom image from a VM

• Delete a VM

The process makes it easy to, for example, quickly deploy a "golden image" for a specific test task and then delete it when the test is finished.

References: <https://docs.microsoft.com/en-us/azure/lab-services/devtest-labintegrate-ci-cd-vsts>

NEW QUESTION 7

HOTSPOT

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

```

NEW QUESTION 8

DRAG DROP

You need to recommend a solution for deploying charts by using Helm and Tiller 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

NEW QUESTION 9

DRAG DROP

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	The elapsed time from the creation of work items to their completion: <input type="text"/>
Cycle Time	
Lead Time	The elapsed time to complete work items once they are active: <input type="text"/>
Velocity	The remaining work: <input type="text"/>

- 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. Incorrect Answers:

Velocity provides a useful metric for these activities: Support sprint planning

Forecast future sprints and the backlog items that can be completed

A guide for determining how well the team estimates and meets their planned

commitments References:

<https://docs.microsoft.com/en-us/azure/devops/report/dashboards/velocityguidance?view=vsts>

<https://docs.microsoft.com/en-us/azure/devops/report/dashboards/cycle-time-andlead-time?view=vsts>

<https://docs.microsoft.com/en-us/azure/devops/report/dashboards/configureburndown-burnup-widgets?view=vsts>

NEW QUESTION 10

Your company deploys applications in Docker containers.

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

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

What should you configure?

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

Answer: C

Explanation:

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

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

or Azure Container registry.

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

NEW QUESTION 10

You are developing a multi-tier application. The application will use Azure App Service web apps as the front end and an Azure SQL database as the back end.

The application will use Azure functions to write some data to Azure Storage. You need to send the Azure DevOps team an email message when the front end fails to return a status code of 200.

Which feature should you use?

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

Answer: D

Explanation:

Application Map helps you spot performance bottlenecks or failure hotspots across all components of your distributed application. Each node on the map represents an application component or its dependencies; and has health KPI and alerts status. References: <https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-map>

NEW QUESTION 14

DRAG DROP

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

• Ten virtual machines hosted in Azure.

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

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

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

NOTE: Each correct selection is worth one point.

Components	Answer Area
A deployment group	Ten virtual machines hosted in Azure:
A management group	
A resource group	Ten virtual machines hosted in an on-premises data center environment:
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.

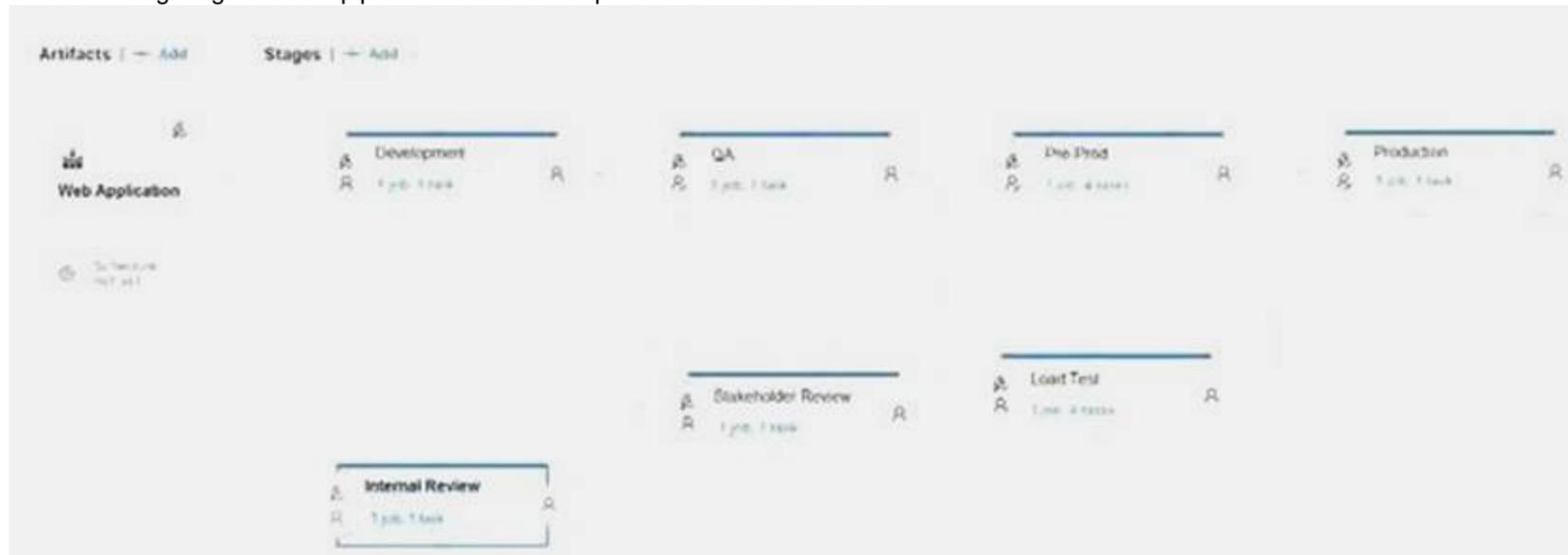
Box 2: A deployment group

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

NEW QUESTION 16

HOTSPOT

You are configuring a release pipeline in Azure DevOps as shown in the exhibit.



Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

How many stages have triggers set?

0

1

2

3

4

5

6

7

Which component should you modify to enable continuous delivery?

The Development stage

The Internal Review stage

The Production stage

The Web Application artifact

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: 5

There are five stages: Development, QA, Pre-production, Load Test and Production. They all have triggers.

Box 2: The Internal Review stage References: <https://docs.microsoft.com/enus/ azure/devops/pipelines/release/triggers>

NEW QUESTION 17

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 20

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 23

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. Microsoft Visual Studio App Center
- B. Azure DevOps Project
- C. Azure Logic Apps
- D. Azure Pipelines
- E. Azure Application Insights

Answer: CE

Explanation:

References:

<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 28

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 Pre-deployment conditions settings of the release pipeline, you select After stage.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead, In Visual Designer you enable continuous integration (CI) by:
„hSelect the Triggers tab.
„hEnable Continuous integration. References:
<https://docs.microsoft.com/en-us/azure/devops/pipelines/get-started-designer>

NEW QUESTION 30

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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 Pre-deployment conditions settings of the release pipeline, you select Batch changes while a build is in progress.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a Pull request trigger. Note: Batch changes

Select this check box if you have a lot of team members uploading changes often and you want to reduce the number of builds you are running. If you select this option, when a build is running, the system waits until the build is completed and then queues another build of all changes that have not yet been built.

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

NEW QUESTION 34

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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 two standalone templates, each of which will deploy the resources in its respective group.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a main template and two linked templates.

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

NEW QUESTION 39

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

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

What should you use?

- A. Microsoft Visual SourceSafe
- B. PDM
- C. WhiteSource
- D. OWASP ZAP

Answer: C

Explanation:

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 definitive database of open source repositories.

Azure DevOps integration with WhiteSource Bolt will enable you to:

„hDetect and remedy vulnerable open source components.

„hGenerate comprehensive open source inventory reports per project or build.

„hEnforce open source license compliance, including dependencies and licenses.

„hIdentify outdated open source libraries with recommendations to update. References: <https://www.azuredevopslabs.com/labs/vstsextend/WhiteSource/>

NEW QUESTION 41

unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution

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

You integrate a cloud-hosted Jenkins server and a new Azure DevOps deployment. You need Azure DevOps to send a notification to Jenkins when a developer commits

changes to a branch in Azure Repos.

Solution: You create a service hook subscription that uses the build completed event Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 45

Your company develops an app for OS. All users of the app have devices that are members of a private distribution group in Microsoft Visual Studio App Center. You plan to distribute a new release of the app. You need to identify which certificate file you require to distribute the new release from App Center. Which file type should you upload to App Center?

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

Answer: D

NEW QUESTION 49

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

NEW QUESTION 54

Your company is building a mobile app that targets Android devices and OS devices. Your team uses Azure DevOps to manage all work items and release cycles. You need to recommend a solution to perform the following tasks:
jE Collect crash reports for issue analysis
jE Distribute beta releases to your testers.
jE Get user feedback on the functionality of new apps. What should you include in the recommendation?

- A. Jenkins integration
- B. Azure Application Insights widgets
- C. the Microsoft Test & Feedback extension
- D. Microsoft Visual Studio App Center integration

Answer: D

NEW QUESTION 57

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 58

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

Answer: C

NEW QUESTION 60

Your company is concerned that when developers introduce open source libraries, it creates licensing compliance issues. You need to add an automated process to the build pipeline to detect when common open source libraries are added to the code base. What should you use?

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

D. Jenkins

Answer: C

NEW QUESTION 64

HOTSPOT

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 68

What should you use to implement the code quality restriction on the release pipeline for the investment planning applications suite?

- A. a trigger
- B. a pre deployment approval
- C. a post-deployment approval
- D. a deployment gate

Answer: B

Explanation:

When a release is created from a release pipeline that defines approvals, the deployment stops at each point where approval is required until the specified approver grants approval or rejects the release (or re-assigns the approval to another user). Scenario: Code quality and release quality are critical. During release, deployments must not proceed between stages if any active bugs are logged against the release. References: <https://docs.microsoft.com/en-us/azure/devops/pipelines/release/approvals/approvals>

NEW QUESTION 70

Where should the build and release agents for the investment planning applications suite run? To answer, select the appropriate options in the answer area
NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Build agent: A source control system

Release agent: The developers' computers

Case Study: 2 Overview
Existing Environment

This is a case study Case studies are not limed separately. You can use as much exam time at you would like to complete each case. However there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of the case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment and problem statements. If the case study has an All Information tab, note that the information displayed on it is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the question button to return to the question.

Requirements

Contoso plans to improve its IT development and operations processes implementing Azure DevOps principles. Contoso has an Azure subscription and creates an Azure DevOps organization.

The Azure DevOps organization includes:

- The Docker extension

- A deployment pool named Pool7 that contains 10 Azure virtual machines that run Windows Server 2016.

The Azure subscription contains an Azure Automation account. Planned Changes

Contoso plans to create projects in Azure DevOps as shown in the following table.

Project name	Project details
Project 1	Project1 will provide support for incremental builds and third-party SDK components
Project 2	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.
Project 3	Project3 will be integrated with SonarQube
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.
Project 5	Project5 will contain a Git repository in Azure Reports and a continuous integration trigger that will initiate a build in response to any change except for changes within /folder1 of the repository.
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.
Project 7	Project7 will contain a target deployment group named Group7 that maps to Pool7. Project7 will use Azure Automation State Configuration to maintain the desired state of the computers in Group7.

Technical Requirements

Contoso identifies the following technical requirements:

- Implement build agents for Project 1.

- Whenever possible, use Azure resources

- Avoid using deprecated technologies

- Implement a code flow strategy for Project2 that will:

- Enable Team 2 to submit pull requests for Project2.

- Enable Team 2 to work independently on changes to a copy of Project?

- 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.

- Whenever possible, implement automation and minimize administrative effort.

- Implement Project3, Project5, Project6, and Project7 based on the planned changes.

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

NEW QUESTION 71

In Azure DevOps, you create Project3.

You need to meet the requirements of the project. What should you do first?

- A. From Azure DevOps, create a service endpoint.
- B. From SonarQube, obtain an authentication token.
- C. From Azure DevOps, modify the build definition.
- D. From SonarQube, create a project

Answer: A

Explanation:

The first thing to do is to declare your SonarQube server as a service endpoint in your VSTS/DevOps project settings.

References: <https://docs.sonarqube.org/display/SCAN/Analyzing+with+SonarQube+Extension+for+VSTS-TFS>

NEW QUESTION 76

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.

The screenshot shows an interface with two main sections: 'Actions' on the left and 'Answer Area' on the right. The 'Actions' section contains a list of five items: 'Open the release pipeline editor.', 'Open the **Triggers** tab.', 'Disable the continuous integration trigger.', 'Enable Gates.', and 'Add a manual intervention task.'. Below the 'Add a manual intervention task.' item are two circular navigation buttons: a right-pointing arrow and a left-pointing arrow. The 'Answer Area' section contains a vertical list of three numbered boxes (1, 2, 3) which are currently empty. To the right of these boxes are two circular navigation buttons: an up-pointing arrow and a down-pointing arrow.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

This screenshot is identical to the one above, but the 'Answer Area' is now populated with three items in the numbered boxes: '1 Add a manual intervention task.', '2 Add Query Work Items.', and '3 Enable Gates.'. The 'Actions' list remains the same as in the previous screenshot.

NEW QUESTION 81

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