

AZ-400

Practice Test 1

About the practice test

45 questions | 2 hours | passing score 70 %

★ Question 1:

Your company is planning on using Azure Boards. They want to be able to create and track user stories and bugs on a Kanban board. Which of the following work item process would they choose when creating the project in their Azure DevOps organization?

Agile

CMMI

Scrum

Basic

★ Question 2 :

Your company is planning on using Azure Boards. They want to be able to create and track product backlog items and bugs on a Kanban board. Which of the following work item process would they choose when creating the project in their Azure DevOps organization?

Agile

CMMI

Scrum

Basic

★ Question 3 :

Your company is planning on using Azure Boards. They want to be able to create and track requirements, change requests, risks and reviews. Which of the following work item process would they choose when creating the project in their Azure DevOps organization?

Agile

CMMI

Scrum

Basic

★ Question 4 :

Your company has created an Azure DevOps project within an organization. The project is based on the Agile work item process. They want to be able to visualize the user stories created as part of the project. Which of the following helps to accomplish this?

Work items

Queries

Repos

Kanban boards

★ Question 5 :

Your company is planning on using Azure Boards. They want to add widgets to the dashboard based on specific requirements. Which widget can be used for tracking the following requirement?

“Track the time taken to close a work item after work on it has started”

Cycle time

Lead time

Velocity

Burndown chart

★ Question 6 :

Your company is planning on using Azure Boards. They want to add widgets to the dashboard based on specific requirements. Which widget can be used for tracking the following requirement?

“Track the time taken to close a work item after it was created”

Cycle time

Lead time

Velocity

Burndown chart

★ Question 7 :

Your team has a project in an Azure DevOps organization. The project administrator has created a shared query.

techsup4000

/ AgileProject

/ Boards

/ Queries

Search

Queries > Shared Queries

+ New query

>New folder

Title

Last modified by

Tasks-High-Priority

...



techsup4000 updated 6 minutes ago

You must ensure that a user named UserA has access to edit the shared query. You must ensure the least permissions are given to the user for this requirement. Which permission on the shared query would you grant the user for this requirement?

Contribute

Read

Delete

Manage permissions

★ Question 8 :

Your Azure DevOps project currently has the following wiki

techsup4000 / AgileProject / Overview / Wiki

The screenshot shows the Azure DevOps Wiki interface. At the top left, there's a dropdown menu labeled "AgileProject.wiki". Below it is a search bar with the placeholder "Filter pages by title". To the right of the search bar is a "X" button. Underneath the search bar, there are two collapsed sections: "Understanding the project" and "2. Job Postings page". A single page, "1. Login Page", is expanded and highlighted with a blue border. To the right of the page list, the main content area displays the "1. Login Page" content. The content includes the title "1. Login Page", a timestamp "techsup4000 Just now", a visit count "0 visits in last 30 days", and a comment input field with a placeholder "Add a comment...".

You need to move the “1.Login Page” to be directly under the Understanding the project home folder. How can you accomplish this?

Add another subs wiki under the main wiki page.

Delete and recreate the page again.

Just drag and drop the page accordingly.

★ Question 8 :

Your Azure DevOps project currently has the following wiki

techsup4000 / AgileProject / Overview / Wiki

The screenshot shows the Azure DevOps Wiki interface. On the left, there's a sidebar titled 'AgileProject.wiki' with a dropdown arrow. Below it is a search bar labeled 'Filter pages by title' with a magnifying glass icon and a close button. Under the search bar are two collapsed sections: 'Understanding the project' (indicated by a house icon) and '2. Job Postings page' (indicated by a document icon). A third section, '1. Login Page' (indicated by a document icon), is expanded and highlighted with a blue border. To the right of the sidebar, the main content area has a title '1. Login Page' in bold. Below the title is a timestamp 'techsup4000 Just now'. Underneath the timestamp is the page content '1. Login Page'. Further down is a statistic '0 visits in last 30 days'. At the bottom of the content area is a text input field with a green 'T' icon and placeholder text 'Add a comment...'. There are three dots at the top right of the content area.

You need to move the “1.Login Page” to be directly under the Understanding the project home folder. How can you accomplish this?

Add another subs wiki under the main wiki page.

Delete and recreate the page again.

Just drag and drop the page accordingly.

★ Question 9 :

Your company has an Azure DevOps project under an Azure DevOps organization. You have to create a published wiki from within the project. Which of the following is required for the published wiki?

An Azure DevOps Kanban board

An Azure DevOps Test Plan

An Azure DevOps Repository

An Azure DevOps Pipeline

★ Question 10 :

Your company has just setup an Azure DevOps organization and a project.

An Azure repo based on Git is in place. Developers use this for version control for an ASP.NET application.

The screenshot shows a file browser interface for an Azure DevOps repository named 'webapp'. The left sidebar lists files: 'webapp' (a folder), '.gitattributes', '.gitignore', and 'webapp.sln'. The main area is titled 'Files' and shows a table of contents. The table has columns for 'Name', 'Last change', and 'Commits'. It lists four items: 'webapp' (changed yesterday), '.gitattributes' (changed Monday), '.gitignore' (changed Monday), and 'webapp.sln' (changed Monday). Each item has a small preview icon and a commit history link.

Name	Last change	Commits
webapp	Yesterday	86922ce3 Change as part of Feature100 to user!
.gitattributes	Monday	a06624d3 Add .gitignore and .gitattributes , Alan Rodrigues
.gitignore	Monday	a06624d3 Add .gitignore and .gitattributes , Alan Rodrigues
webapp.sln	Monday	b684e515 Add project files , Alan Rodrigues

The developers need to work on many new features for the application from time to time. Which of the following should they consider when integrating the new features into the application code?

Commit changes to the code directly to the main branch

Create feature branches and use pull requests to merge the branches into the main branch

Create multiple main branches and make changes to each main branch

★ Question 11:

A development team is working on application code that is hosted in a Git repository. They need to create multiple feature branches off the main branch. Which of the following is the right approach when creating feature branches?

Make sure the feature branches are long-lived branches

Make sure the feature branches are short-lived branches

Make sure the feature branches are primary branches

★ Question 12 :

Your company has setup an Azure DevOps organization and a project team within the organization. They are setting up several repositories in Azure Repos. They want to setup the following set of permissions for several types of users.

User	Requirements
DeveloperA	The developer should be able to 1. Contribute to the repositories 2. Create branches 3. Create new repositories
DeveloperB	The developer should be able to 1. Contribute to the repositories 2. Create branches 3. NOT be able to bypass policies when pushing 4. NOT be able to create new repositories
Manager	Here the manager should ONLY be able to view the repositories within the project.

You have to assign the users to the correct Azure DevOps in-built groups. You need to ensure the least privilege is used when assigning the required group.

Which of the following group would you assign to DeveloperA?

Project Administrators

Contributors

Project Collection Service Administrators

★ Question 13 :

Your company has setup an Azure DevOps organization and a project team within the organization. They are setting up several repositories in Azure Repos. They want to setup the following set of permissions for several types of users.

User	Requirements
DeveloperA	The developer should be able to 1. Contribute to the repositories 2. Create branches 3. Create new repositories
DeveloperB	The developer should be able to 1. Contribute to the repositories 2. Create branches 3. NOT be able to bypass policies when pushing 4. NOT be able to create new repositories
Manager	Here the manager should ONLY be able to view the repositories within the project.

You have to assign the users to the correct Azure DevOps in-built groups. You need to ensure the least privilege is used when assigning the required group.

Which of the following group would you assign to DeveloperB?

Project Administrators

Contributors

Project Collection Service Administrators

★ Question 14 :

Your company has setup an Azure DevOps organization and a project team within the organization. They are setting up several repositories in Azure Repos. They want to setup the following set of permissions for several types of users.

User	Requirements
DeveloperA	The developer should be able to <ul style="list-style-type: none">1. Contribute to the repositories2. Create branches3. Create new repositories
DeveloperB	The developer should be able to <ul style="list-style-type: none">1. Contribute to the repositories2. Create branches3. NOT be able to bypass policies when pushing4. NOT be able to create new repositories
Manager	Here the manager should ONLY be able to view the repositories within the project.

You have to assign the users to the correct Azure DevOps in-built groups. You need to ensure the least privilege is used when assigning the required group.

Which of the following group would you assign to the Manager?

Project Administrators

Contributors

Project Collection Build Service Account

★ Question 15 :

Your company has setup an Azure DevOps organization and a project within the organization. Developers are currently working on application code within a particular repository.

https://dev.azure.com/techsup4000/AgileProject/_git/webapp

You need to ensure that notifications are sent to slack whenever pull requests are created.

Which of the following command would issue within Slack for this requirement?

/azrepos tag https://dev.azure.com/techsup4000/AgileProject/_git/webapp



/azrepos assign https://dev.azure.com/techsup4000/AgileProject/_git/webapp

/azrepos subscribe https://dev.azure.com/techsup4000/AgileProject/_git/webapp

/azrepos signin https://dev.azure.com/techsup4000/AgileProject/_git/webapp

★ Question 16 :

Your team is currently working on application code within a Git repository. You must reduce the data size of the repository. You need to complete the below command for this requirement.

git **Slot 1** --expire now

Which of the following would go into Slot 1?

commit

push

prune

merge

★ Question 17:

Your company has just setup a project team. The team is going to be working on developing application code. The code needs to be part of a source code versioning tool. The developers need to work offline on the application code and make the required changes. They also need the full project history when they work with the application code offline. Which of the following would the ideal tool to use for this requirement?

Team Foundation Version Control

Subversion

Git

★ Question 18 :

Your team has setup a Git repository within Azure Repos

Name ↑	Last change	Commits
webapp	Yesterday	dc70924b Add project files, Alan Rodrigues
webapp.sln	Yesterday	dc70924b Add project files, Alan Rodrigues

They want to ensure that certain binary files are not committed to the repository. Which of the following can be implemented for this requirement? Choose 4 answers from the options given below

Run the git add command

Run the git commit command

Add the names of the required binary files to the .gitignore file

Run the git init command

Create a .gitignore file

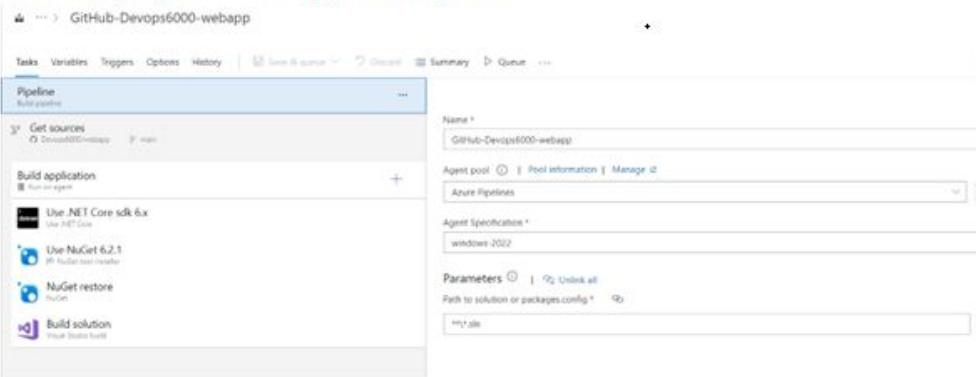
★ Question 19 :

Your team is working on a Git repository hosted in Azure Repos. The team is creating multiple feature branches and different team members are working on each feature branch. You want to ensure that when team members merge the features into the main branch via Pull requests, the history volume does not increase significantly on the main branch. Which of the following merge strategy can be used for this requirement?

- fast-forward-merge**
- squash merge**
- three-way merge**

★ Question 20 :

Your company has a build pipeline in place



You have to ensure that when code is checked into the corresponding repository, a build runs automatically. Which of the following would you configure in the pipeline for this requirement?

Create a new pipeline variable

Add a new task to the pipeline

Enable Continuous Integration

Enable batch changes

★ Question 21:

Your company is planning on implementing a security process within their DevOps pipelines. They want to ensure the right testing strategy is conducted during the various phases in the DevOps pipeline. Which of the following should ideally be done during the planning phase?

Load Testing

Static Code Analysis

Penetration Testing

Threat modeling

★ Question 22 :

Your company currently has a project defined in a Jenkins instance.

The screenshot shows a Jenkins dashboard for a project named 'ProjectB'. At the top, there's a navigation bar with 'Dashboard' and 'ProjectB'. Below it, a main area has a title 'Project ProjectB' and a back-link 'Back to Dashboard'. On the left, there are several links: 'Status' (highlighted in grey), 'Changes' (with a diff icon), 'Workspace' (with a folder icon), 'Build Now' (with a play icon), and 'Configure' (with a gear icon). To the right of these links, there's a 'Workspace' section with a folder icon and a 'Recent Changes' section with a diff icon.

The project needs to pick up code from a repository defined in Azure repos. It has to be ensured that a build is triggered in Jenkins whenever a developer commits a change to the main branch in the repository in Azure repos. Which of the following needs to be implemented for this requirement?

- Create a service connection in Project settings in the Azure DevOps project containing the repository.
- Create a service connection in Jenkins.
- Create a service hook in Project settings in the Azure DevOps project containing the repository.
- Create a service hook in Jenkins.

★ Question 23 :

Your company is planning on using the Azure DevOps set of tools. They currently use Jenkins when it comes to Continuous Integration. Which of the following tool within Azure DevOps could be used to replace the Jenkins tool?

Azure Boards

Azure Build Pipelines

Azure Artifacts

Azure Repos

★ Question 24 :

Your company currently has an Azure DevOps project in place. The project is being used for the DevOps lifecycle for a Java-based application. They are planning on using SonarQube when it comes to Static code analysis. Which of the following task should be defined in the build pipeline for usage of SonarQube for measuring code quality for the Java application?

Gradle

Grunt

MSBuild

Docker

★ Question 25 :

Your company currently has an Azure DevOps project in place. The project is being used for the DevOps lifecycle for a .NET-based application. They want to identify any security vulnerabilities during the application build process when it comes to any open-source libraries used in the application. Which of the following could be used for this requirement?

Grunt

Gulp

Black Duck

Docker

★ Question 26 :

Your company has just set an Azure DevOps account based on the free tier. They have setup a number of private projects. Each project has a build pipeline defined that used a self-hosted agent. They are experiencing delays when it comes to the build process, and this is because of the queueing of the builds. Which of the following can be done to rectify this issue?

- Implement caching in the pipeline**
- Use Microsoft-hosted agents instead.**
- Configure a policy for the project**
- Purchase parallel jobs**

★ Question 27 :

Your company has a build pipeline in place

The screenshot shows the Azure Pipelines interface for a build pipeline named "GitHub-Devops6000-webapp". The pipeline is defined with the following tasks:

- Get sources (using DevOps6000-repository)
- Build application (using Run on agent)
- Use .NET Core sdk 6.x (using .NET Core)
- Use NuGet 6.2.1 (using NuGet tool installer)
- NuGet restore (using NuGet)
- Build solution (using Visual Studio build)

The pipeline is set to run on an Azure Pipelines agent pool and uses the windows-2022 agent specification.

How many tasks have been defined in the pipeline?

1

4

5

10

★ Question 28 :

Your company has the following Azure pipeline in place

The screenshot shows the Azure DevOps interface for a project named 'DevProject'. On the left, there's a sidebar with options like Overview, Boards, Repos, Pipelines, etc. The main area is titled 'newapp' and shows a list of build definitions:

- #20210713-2 Update azure-pipelines.yml for Azure Pipelines (1 failure, 0 success)
- #20210713-5 Update azure-pipelines.yml for Azure Pipelines (2 failures, 3 successes)
- #20210713-3 Update azure-pipelines.yml for Azure Pipelines (2 failures, 4 successes)
- #20210713-4 Update azure-pipelines.yml for Azure Pipelines (1 failure, 3 successes)
- #20210713-0 azure-pipelines.yml - Works! (0 failures, 0 successes)
- #20210713-2 Changed made to index.html (2 failures, 1 success)
- #20210713-1 Building Azure pipelines (0 failures, 0 successes)

They want to ensure that a project team defined in Microsoft Teams gets notified whenever there are failures in the pipeline.

Which of the following command can be used for this requirement?

- @azure pipelines subscribe https://dev.azure.com/techsup4000/DevProject/_build?definitionId=3
- @azure pipelines subscriptions https://dev.azure.com/techsup4000/DevProject/_build?definitionId=3
- @azure pipelines subscribe https://dev.azure.com/techsup4000/DevProject/_package?definitionId=3
- @azure pipelines subscriptions https://dev.azure.com/techsup4000/DevProject/_package?definitionId=3

★ Question 29 :

Your company has an organization defined in GitHub. They also have a repository defined within the organization. They want to create an Azure Pipeline that would pick up code from the GitHub repository. You have to ensure that Azure Pipelines runs under the Azure Pipelines identity when it comes to the integration with GitHub. Which form of authentication would you use for this requirement?

OAuth

Personal Access Token

GitHub App

★ Question 30 :

You have to configure an availability test with the use of Application Insights. You will be setting a URL ping test against the site <https://cloudportalhub.com>.

You must ensure that tests are conducted from 5 locations at a duration of every 5 minutes. A successful test should mean that the main application page load along with the images on the page.

Which of the following would you configure in the test for the requirement •

"You must ensure that tests are conducted from 5 locations at a duration of every 5 minutes"

Parse dependent requests

Enable retries for availability test failures

Test locations

Content match

★ Question 31:

You have to configure an availability test with the use of Application Insights. You will be setting a URL ping test against the site <https://cloudportalhub.com>.

You must ensure that tests are conducted from 5 locations at a duration of every 5 minutes. A successful test should mean that the main application page load along with the images on the page.

Which of the following would you configure in the test for the requirement

“A successful test should mean that the main application page load along with the images on the page.”

Parse dependent requests

Enable retries for availability test failures

Test locations

Content match

★ Question 32 :

Your team has the following virtual machine defined as part of their subscription

The screenshot shows the Azure portal interface for a virtual machine named 'appvm'. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Connect, Windows Admin Center (Preview), Disk, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, and Continuous delivery. The main content area is titled 'Essentials' and displays the following information:

Resource group (Optional)	Operating system
11112222-0000-0000-0000-000000000000	Windows (Windows Server 2019 Datacenter)
Tags	None
Location	Standard D2s v5 (2 vCPUs, 8 GB memory)
Subscription (None)	Public IP address
Subscription ID	Template: gen.vnet/default
Tags (0)	DNS name
Click here to add tags	

Below this, there are tabs for Properties, Monitoring, Capabilities (0), Recommendations, and Tutorials. Under the 'Virtual machine' tab, the following details are shown:

Computer name	appvm
Health state	-
Operating system	Windows (Windows Server 2019)

Under the 'Networking' tab, it shows Public IP address: 23.166.6.69 and Private IP address: 10.0.2.49.

An Azure DevOps pipeline has been setup to release a web application onto the Azure virtual machine. You have to configure an Azure Monitor alert that would generate an alert if the CPU utilization of the machine goes beyond 75% for 5 minutes. Azure Monitor should be configured to calculate the average CPU utilization every 15 minutes.

Which of the following would you configure as the threshold type for the alert?

- Static
- Dynamic

★ Question 33 :

Your team has the following virtual machine defined as part of their subscription

The screenshot shows the Azure portal interface for a virtual machine named 'appvm'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tag, Diagnose and solve problems, Settings, Networking, Connect, Windows Admin Center (Preview), Data, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, and Continuous delivery. The main content area is titled 'Essentials' and displays the following information:

Resource group (Name)	Operating system
DEMO-VM-LAB-GRP	Windows (Windows Server 2019 Datacenter)
Status	Size
Running	Standard D2s v3 (2 vcpus, 8 GB memory)
Location	Public IP address
North Europe	20.166.6.69
Subscription (Usage)	Virtual network/subnet
DATA SUBSCRIPTION 1	testvnet1-vm-test-default
Subscription ID	VM name
6612d7e0-4e28-459e-9437-316bb6843c91	Not configured
Tags (0)	Click here to add tags

Below this, there are tabs for Properties, Monitoring, Capabilities (E), Recommendations, and Tutorials. Under the Properties tab, there are two sections: 'Virtual machine' and 'Networking'. The 'Virtual machine' section shows Computer name: appvm, Health state: -, and Operating system: Windows (Windows Server 2019). The 'Networking' section shows Public IP address: 20.166.6.69 and Public IP address (IPv6): -.

An Azure DevOps pipeline has been setup to release a web application onto the Azure virtual machine. You have to configure an Azure Monitor alert that would generate an alert if the CPU utilization of the machine goes beyond 75% for 5 minutes. Azure Monitor should be configured to calculate the average CPU utilization every 15 minutes.

Which of the following would you configure as the Aggregation granularity?

5 minutes

10 minutes

15 minutes

★ Question 34 :

Your team has an Azure DevOps pipeline. The pipeline is used for building a Core Services application.

← CoreServices

main ◆ CoreServices / azure-pipelines.yml

```
1 # ASP.NET Core (.NET Framework)
2 # Build and test ASP.NET Core projects targeting the full .NET Framework.
3 # Add steps that publish symbols, save build artifacts, and more:
4 # https://docs.microsoft.com/azure/devops/pipelines/languages/dotnet-core
5
6 trigger:
7 - main
8
9 pool:
10 - vmImage: 'windows-latest'
11
12 variables:
13 - solution: '**/*.sln'
14 - buildPlatform: 'Any CPU'
15 - buildConfiguration: 'Release'
16
17 steps:
18 - task: UseDotNet@0
19   inputs:
20     - packageType: 'sdk'
21     - version: '6.x'
22   settings:
23     - task: NuGetToolInstaller@1
24
25 settings:
26   - task: NuGetCommand@2
27     inputs:
28       restoreSolution: '$(solution)'
```

The application needs to pick up a secret defined in an Azure Key vault. The secret needs to be then used in the pipeline. Which of the following needs to be implemented for this requirement? Choose 3 answers from the options given below.

Create a service principal in Azure Active Directory

Enable the managed identity for the Azure Key vault service

Configure an access policy for the key vault

Configure an access policy in Azure Active Directory

Configure a service connection in the pipeline

← CoreServices

main ◆ CoreServices / azure-pipelines.yml

```
1 # ASP.NET Core (.NET Framework)
2 # Build and test ASP.NET Core projects targeting the full .NET Framework.
3 # Add steps that publish symbols, save build artifacts, and more:
4 # https://docs.microsoft.com/azure/devops/pipelines/languages/dotnet-core
5
6 trigger:
7 - main
8
9 pool:
10 - vmImage: 'windows-latest'
11
12 variables:
13 - solution: '**/*.sln'
14 - buildPlatform: 'Any CPU'
15 - buildConfiguration: 'Release'
16
17 steps:
18 - task: UseDotNet@2
19   inputs:
20     - packageType: 'sdk'
21     - version: '6.x'
22   settings:
23     - task: NuGetToolInstaller@1
24
25 settings:
26   - task: NuGetCommand@2
27     inputs:
28       restoreSolution: '$(solution)'
```

★ Question 35 :

Your team currently has an Azure DevOps pipeline that deploys application-based containers to an Azure Kubernetes cluster. The container images are stored in Azure container registry. As part of the security process, you have to ensure that you detect for any application security vulnerabilities as early on in the lifecycle as possible. Which of the following can be carried out for this requirement?

- A task which analyses the deployed container in the cluster for any security vulnerabilities
- A task which analyses the deployed container in an Azure container instance for any security vulnerabilities
- A task which analyses the image in Azure container registry for any security vulnerabilities

★ Question 36 :

Which of the following in Azure pipelines allows you to reference secrets defined in an Azure Key vault?

Task groups

Deployment groups

Variable groups

★ Question 37:

Your team has an Azure Artifacts feed as shown below

The screenshot shows the Azure Artifacts feed interface. At the top, there is a dropdown menu labeled "DevProjectFeed" and several navigation buttons: "Connect to Feed", "+ Create Feed", "Recycle Bin", and "Re". Below this is a search bar with the placeholder "Filter by keywords" and a "View" dropdown set to "Source". A table lists two packages:

Type	Package	View	Source
<input type="checkbox"/>	CoreServices Version 184.0.0		This feed
<input type="checkbox"/>	Newtonsoft.Json Version 13.0.1		NuGet Gallery

The feed is part of a private DevOps project. You have to ensure that other developers can restore the NuGet packages in the feed automatically. Which of the following can be used for this requirement?

Azure Artifacts Credential Provider

Azure Active Directory Application

Azure DevOps service connection

Azure DevOps service hook

★ Question 38 :

Your team is creating a build pipeline for a Java-based application. They want to use a tool that can calculate the percentage of code accessed by tests. Which of the following can be used for this requirement?

WhiteSource Bolt

Maven

Cobertura

★ Question 39 :

Your team needs to deploy a set of resources via the use of Azure Resource Manager templates. These templates need to access secrets that would be stored in an Azure Key Vault resource. Which of the following is one of the aspects that needs to be configured in the key vault for this requirement?

Azure Disk Encryption for volume encryption

Soft-Delete for the key vault

Azure Resource Manager for template deployment

★ Question 40 :

Your team is currently working on source code for an application. A Git repository in Azure Repos is being used for version control. You have to ensure that the types of merges are limited when pull requests are being made to the master branch. Which of the following can be configured for this requirement?

Branch permissions

Branch policies

Service hooks

Agent pools

★ Question 41 :

Your team is currently working on different revisions of an application. The application builds are being made available via packages via the Azure Artifact service. You have to ensure that packages that are currently under development are not visible to users. Which of the following can be used for this requirement?

Upstream sources

Feed views

Package promotion

★ Question 42 :

Your team is planning on using Azure DevOps for the Continuous Integration and Deployment of an application. The application needs to be automatically deployed via Azure Pipelines onto a set of Azure virtual machines. Which of the following would you provision in Azure DevOps to manage the target servers?

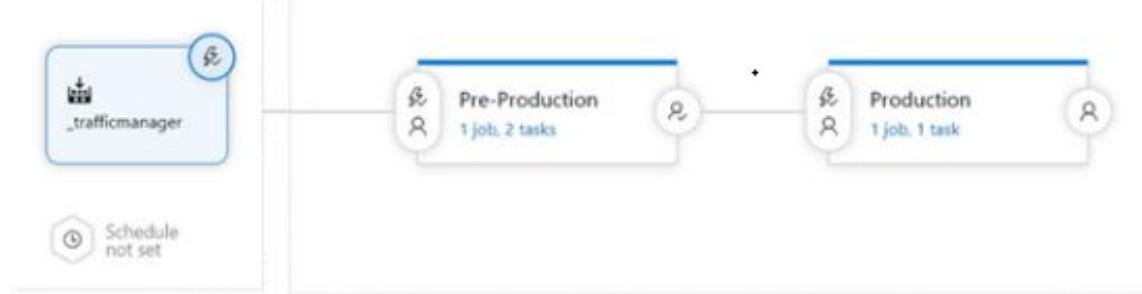
Agent pools

Target jobs

Deployment Groups

★ Question 43 :

Your team currently has the following Release pipeline in place



How many stages does the pipeline have?

1

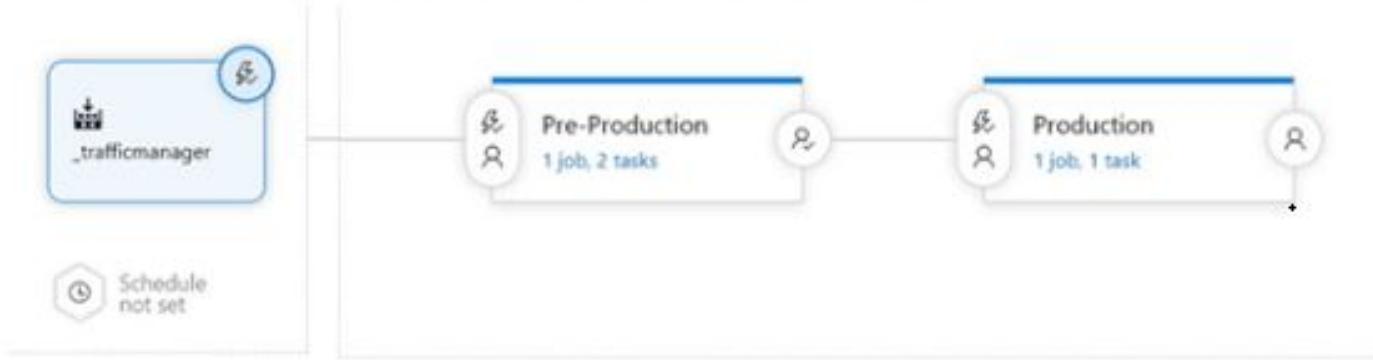
2

3

4

★ Question 44 :

Your team currently has the following Release pipeline in place



Is the Continuous deployment trigger set for the pipeline?

Yes

No

★ Question 45 :

Your team is working on application code within a git repository. You need to mark certain commits along the way as important application releases. You need to mark the first release for a particular commit. Which of the following statement would you issue for this requirement?

- git commit -m "Release v1.0"**
- git tag -a v1.0 -m "Release v1.0"**
- git push -m "Release v1.0"**
- git release -m "Release v1.0"**

Answers

Question 1

Your company is planning on using Azure Boards. They want to be able to create and track user stories and bugs on a Kanban board. Which of the following work item process would they choose when creating the project in their Azure DevOps organization?

Agile

(Correct)

CMMI

Scrum

Basic

(Incorrect)

Explanations

If they want to track user stories on a Kanban board, they can choose Agile as the work item process when creating the project. For more information on choosing the right process for Azure Projects, one can visit the following URL

<https://docs.microsoft.com/en-us/azure/devops/boards/work-items/guidance/choose-process>

Question 2

Your company is planning on using Azure Boards. They want to be able to create and track product backlog items and bugs on a Kanban board. Which of the following work item process would they choose when creating the project in their Azure DevOps organization?

Agile

CMMI

Scrum

(Correct)

Basic

Explications

If they want to track product backlog items on a Kanban board, they can choose Scrum as the work item process when creating the project.

For more information on choosing the right process for Azure Projects, one can visit the following URL

<https://docs.microsoft.com/en-us/azure/devops/boards/work-items/guidance/choose-process>

Question 3

Your company is planning on using Azure Boards. They want to be able to create and track requirements, change requests, risks and reviews. Which of the following work item process would they choose when creating the project in their Azure DevOps organization?

Agile

CMMI

(Correct)

Scrum

(Incorrect)

Basic

Explanations

They can create a project based on the CMMI work item process for this requirement.

For more information on choosing the right process for Azure Projects, one can visit the following URL

<https://docs.microsoft.com/en-us/azure/devops/boards/work-items/guidance/choose-process>

Question 4

Your company has created an Azure DevOps project within an organization. The project is based on the Agile work item process. They want to be able to visualize the user stories created as part of the project. Which of the following helps to accomplish this?

Work items

Queries

(Incorrect)

Repos

Kanban boards

(Correct)

Explications

You can visualize the user stories via the use of Kanban boards.

Question 5

Your company is planning on using Azure Boards. They want to add widgets to the dashboard based on specific requirements. Which widget can be used for tracking the following requirement?

“Track the time taken to close a work item after work on it has started”

- Cycle time** (Correct)
- Lead time**
- Velocity**
- Burndown chart** (Incorrect)

Explanations

This can be accomplished by the Cycle time widget.

For more information on the various widgets, one can visit the following URL

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

Question 6

Your company is planning on using Azure Boards. They want to add widgets to the dashboard based on specific requirements. Which widget can be used for tracking the following requirement?

"Track the time taken to close a work item after it was created"

Cycle time

Lead time

(Correct)

Velocity

(Incorrect)

Burndown chart

Explanations

This can be accomplished by the Lead time widget.

For more information on the various widgets, one can visit the following URL

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

Question 7

You must ensure that a user named UserA has access to edit the shared query. You must ensure the least permissions are given to the user for this requirement. Which permission on the shared query would you grant the user for this requirement?

Contribute

(Correct)

Read

Delete

Manage permissions

Explications

The Contribute permission would allow the user to be able to edit the shared query.

The Read permission would not grant the required permission. The Delete and Manage permissions would give additional permissions that are not required.

Question 8

You need to move the “1.Login Page” to be directly under the Understanding the project home folder. How can you accomplish this?

- Add another subs wiki under the main wiki page.** (Incorrect)
- Delete and recreate the page again.**
- Just drag and drop the page accordingly.** (Correct)

Explications

You can just drag and drop the pages within the wiki.

Question 9

Question 9 : **Correct**

Your company has an Azure DevOps project under an Azure DevOps organization. You have to create a published wiki from within the project. Which of the following is required for the published wiki?

An Azure DevOps Kanban board

An Azure DevOps Test Plan

An Azure DevOps Repository

(Correct)

An Azure DevOps Pipeline

Explications

An Azure DevOps repository is required for the published wiki.

Question 10

The developers need to work on many new features for the application from time to time. Which of the following should they consider when integrating the new features into the application code?

- Commit changes to the code directly to the main branch
- Create feature branches and use pull requests to merge the branches into the main branch (Correct)
- Create multiple main branches and make changes to each main branch (Incorrect)

Explications

The ideal approach is to create feature branches based on the different features. And then later merge the feature branches into the main branch.

Question 11

A development team is working on application code that is hosted in a Git repository. They need to create multiple feature branches off the main branch. Which of the following is the right approach when creating feature branches?

Make sure the feature branches are long-lived branches

Make sure the feature branches are short-lived branches

(Correct)

Make sure the feature branches are primary branches

Explanations

As a practice, you should always ensure that feature branches are short-lived branches.

Question 12

You have to assign the users to the correct Azure DevOps in-built groups. You need to ensure the least privilege is used when assigning the required group.

Which of the following group would you assign to DeveloperA?

Project Administrators

(Correct)

Contributors

Project Collection Service Administrators

The screenshot shows the 'Security' tab of a project's settings. Under 'User permissions', the 'Inheritance' toggle is turned on. A search bar is present. On the left, a tree view lists 'Azure DevOps Groups' (Build Administrators, Contributors, Project Administrators, Readers, Project Collection Administrators, Project Collection Build Service Accounts, Project Collection Service Accounts) and 'Users' (AgileProject Build Service (techsup4000)). On the right, a grid of permissions is shown for the 'Project Administrators' group. The permissions are:

Permission	Value
Bypass policies when completing pull requests	Not set
Bypass policies when pushing	Not set
Contribute	Allow
Contribute to pull requests	Allow
Create branch	Allow
Create repository	Allow
Create tag	Allow
Delete or disable repository	Allow
Edit policies	Allow
Force push (rewrite history, delete branches and tags)	Not set
Manage notes	Allow
Manage permissions	Allow
Read	Allow
Remove others' locks	Allow
Rename repository	Allow

Explications

When you look at the Project Administrators group, they do have the required permissions.

Question 13

You have to assign the users to the correct Azure DevOps in-built groups. You need to ensure the least privilege is used when assigning the required group.

Which of the following group would you assign to DeveloperB?

Project Administrators

(Incorrect)

Contributors

(Correct)

Project Collection Service Administrators

The screenshot shows the 'User permissions' tab in the Azure DevOps interface. It lists various repository-related permissions for the '(AgileProject)Contributors' group. The 'Contributors' group is highlighted in blue. The permissions listed include:

Permission	Value
Bypass policies when completing pull requests	Not set
Bypass policies when pushing	Not set
Contribute	Allow
Contribute to pull requests	Allow
Create branch	Allow
Create repository	Not set
Create tag	Allow
Delete or disable repository	Not set
Edit policies	Not set
Force push (rewrite history, delete branches and tags)	Not set
Manage notes	Allow
Manage permissions	Not set
Read	Allow
Remove others' locks	Not set
Rename repository	Not set

Explications

The Contributors role should suffice for this requirement

Question 14

You have to assign the users to the correct Azure DevOps in-built groups. You need to ensure the least privilege is used when assigning the required group.

Which of the following group would you assign to the Manager?

- Project Administrators (Incorrect)
- Contributors
- Project Collection Build Service Account (Correct)

The screenshot shows the 'Security' tab of a project's settings. It lists various user permissions and their assigned values. The 'Project Collection Build Service Accounts' group is highlighted in red, indicating it is the correct choice for the Manager role. The 'Contributors' group is also listed.

User	Contribute	Create branch	Create repository	Create tag	Delete or disable repository	Edit policies	Force push (rewrite history, delete branches and tag)	Manage notes	Manage permissions	Read	Remove others' locks	Rename repository
Build Administrators	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Allow (inherited)	Not set
Contributors	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set
Project Administrators	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set
Readers	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set
Project Collection Administrators	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set
Project Collection Build Service Accounts	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set
Project Collection Service Accounts	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set
Users	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set
AgileProject Build Service (techsup4000)	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Not set	Allow (inherited)	Not set

Explications

The Project Collection Build Service Account role should suffice for this requirement

Question 15

You have to assign the users to the correct Azure DevOps in-built groups. You need to ensure the least privilege is used when assigning the required group.

Which of the following group would you assign to the Manager?



Project Administrators

(Incorrect)



Contributors



Project Collection Build Service Account

(Correct)

Explanations

One of the specific commands you would need to execute within Slack to get notifications on Azure Repos is /azrepos subscribe and then give the repository URL.

For more information on the integration of Slack and Azure Repos, one can visit the below URL

<https://docs.microsoft.com/en-us/azure/devops/repos/integrations/repos-slack?view=azure-devops>

Question 16

Which of the following command would issue within Slack for this requirement?

/azrepos tag
https://dev.azure.com/tchsup4000/AgileProject/_git/webapp

/azrepos assign
https://dev.azure.com/tchsup4000/AgileProject/_git/webapp

/azrepos subscribe
https://dev.azure.com/tchsup4000/AgileProject/_git/webapp (Correct)

/azrepos signin
https://dev.azure.com/tchsup4000/AgileProject/_git/webapp

Explications

For this requirement, you can use the git prune command.

For more information on Git maintenance and data recovery, one can visit the below URL

<https://git-scm.com/book/en/v2/Git-Internals-Maintenance-and-Data-Recovery>

Question 17

Which of the following would go into Slot 1?

commit

push

prune

(Correct)

merge

Explanations

Git is a distributed system. This is the ideal tool to use for developers when they want to work with changes offline.

Question 18

Your company has just setup a project team. The team is going to be working on developing application code. The code needs to be part of a source code versioning tool. The developers need to work offline on the application code and make the required changes. They also need the full project history when they work with the application code offline. Which of the following would the ideal tool to use for this requirement?

Team Foundation Version Control

Subversion

Git

(Correct)

Explications

First, we have to create the .gitignore file

Add the required file names to the .gitignore file. These are the binary files that don't need to be tracked in Git.

Then run the git add command to add the .gitignore file

Finally commit the .gitignore file to the repository.

Question 19

They want to ensure that certain binary files are not committed to the repository. Which of the following can be implemented for this requirement? Choose 4 answers from the options given below

Run the `git add` command

(Correct)

Run the `git commit` command

(Correct)

Add the names of the required binary files to the `.gitignore` file

(Correct)

Run the `git init` command

Create a `.gitignore` file

(Correct)

Explications

When you want to reduce the commit history on the main branch, you should consider using the squash merge technique.

Question 20

Your team is working on a Git repository hosted in Azure Repos. The team is creating multiple feature branches and different team members are working on each feature branch. You want to ensure that when team members merge the features into the main branch via Pull requests, the history volume does not increase significantly on the main branch. Which of the following merge strategy can be used for this requirement?

fast-forward-merge

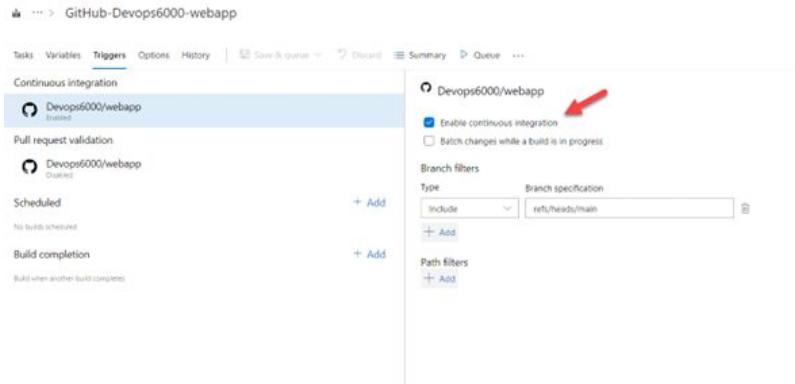
squash merge

(Correct)

three-way merge

Explications

To ensure that the build triggers automatically, you need to enable Continuous integration in the triggers tab of the pipeline



The screenshot shows the 'Triggers' tab of a pipeline configuration. On the left, there's a sidebar with sections for 'Continuous integration', 'Pull request validation', 'Scheduled', and 'Build completion'. The 'Continuous integration' section is expanded, showing a list of triggers. The first trigger is 'Devops6000/webapp' with the status 'Enabled'. To its right is a configuration panel. At the top of this panel is a checkbox labeled 'Enable continuous integration' which is checked. A red arrow points to this checkbox. Below it are two other options: 'Batch changes while a build is in progress' (unchecked) and 'Branch filters' (which includes a 'Type' dropdown set to 'Include' and a 'Branch specification' input field containing 'refs/heads/main'). There are also '+ Add' buttons for both the triggers and the filters.

Question 21

You have to ensure that when code is checked into the corresponding repository, a build runs automatically. Which of the following would you configure in the pipeline for this requirement?

Create a new pipeline variable

Add a new task to the pipeline

Enable Continuous Integration

(Correct)

Enable batch changes

(Incorrect)

Explications

Threat Modeling can be conducted during the planning phase to understand the various threats against an application.

Question 22

Your company is planning on implementing a security process within their DevOps pipelines. They want to ensure the right testing strategy is conducted during the various phases in the DevOps pipeline. Which of the following should ideally be done during the planning phase?

Load Testing

Static Code Analysis

Penetration Testing

(Incorrect)

Threat modeling

(Correct)

Explanations

You have to create a service hook in the Azure DevOps project. The service hook would ensure that a code commit would trigger a build in the Jenkins pipeline.

For more information on the service hook, one can visit the below URL

<https://docs.microsoft.com/en-us/azure/devops/service-hooks/services/jenkins?view=azure-devops>

Question 23

Your company is planning on using the Azure DevOps set of tools. They currently use Jenkins when it comes to Continuous Integration. Which of the following tool within Azure DevOps could be used to replace the Jenkins tool?

Azure Boards

Azure Build Pipelines

(Correct)

Azure Artifacts

Azure Repos

(Incorrect)

Explications

Azure Build Pipelines can be used to create the pipelines that would have been defined in the Jenkins instance.

Question 24

Your company currently has an Azure DevOps project in place. The project is being used for the DevOps lifecycle for a Java-based application. They are planning on using SonarQube when it comes to Static code analysis. Which of the following task should be defined in the build pipeline for usage of SonarQube for measuring code quality for the Java application?

Gradle

(Correct)

Grunt

MSBuild

(Incorrect)

Docker

Explications

For more information on the Gradle task, one can visit the below URL

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

Question 25

Your company currently has an Azure DevOps project in place. The project is being used for the DevOps lifecycle for a .NET-based application. They want to identify any security vulnerabilities during the application build process when it comes to any open-source libraries used in the application. Which of the following could be used for this requirement?

Grunt

Gulp

Black Duck

(Correct)

Docker

(Incorrect)

Explanations

Black Duck is an option that can be used for this requirement.

For more information on Black Duck, one can visit the below URL

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

Question 26

Your company has just set an Azure DevOps account based on the free tier. They have setup a number of private projects. Each project has a build pipeline defined that used a self-hosted agent. They are experiencing delays when it comes to the build process, and this is because of the queueing of the builds. Which of the following can be done to rectify this issue?

Implement caching in the pipeline

Use Microsoft-hosted agents instead.

Configure a policy for the project

(Incorrect)

Purchase parallel jobs

(Correct)

Explanations

With the free-tier, you only get the option of one parallel job that can run at a time.

If you need more jobs to run in parallel, then you need to purchase more jobs.

Private projects



Microsoft-hosted ⓘ

Free tier
1 parallel job up to 1800 mins/mo

Currently 34/1800 minutes are consumed

Purchase parallel jobs



Self-hosted ⓘ

1 Parallel jobs

Free parallel jobs

1

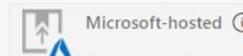
Visual Studio Enterprise subscribers ⓘ

0

Monthly purchases

0 Change

Public projects



Microsoft-hosted ⓘ

0 Parallel jobs



Self-hosted ⓘ

Unlimited Parallel jobs

Question 27

How many tasks have been defined in the pipeline?

1

(Incorrect)

4

(Correct)

5

10

Explications

There are four tasks that are part of one job defined in the pipeline.

Question 28

They want to ensure that a project teams defined in Microsoft Teams gets notified whenever there are failures in the pipeline.

Which of the following command can be used for this requirement?

- `@azure pipelines subscribe
https://dev.azure.com/techsup4000/DevProject/_build?
definitionId=3` (Correct)
- `@azure pipelines subscriptions
https://dev.azure.com/techsup4000/DevProject/_build?definitionId=3`
- `@azure pipelines subscribe
https://dev.azure.com/techsup4000/DevProject/_package?definitionId=3`
- `@azure pipelines subscriptions
https://dev.azure.com/techsup4000/DevProject/_package?
definitionId=3` (Incorrect)

Explications

You need to use the `@azure pipelines subscribe` command. And then you can use the build definition to the command.

For more information on Integrating Azure Pipelines and Microsoft Teams, one can visit the below URL

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

Question 29

Your company has an organization defined in GitHub. They also have a repository defined within the organization. They want to create an Azure Pipeline that would pick up code from the GitHub repository. You have to ensure that Azure Pipelines runs under the Azure Pipelines identity when it comes to the integration with GitHub. Which form of authentication would you use for this requirement?

OAuth

Personal Access Token

GitHub App

(Correct)

Explications

You need to use the GitHub App for this requirement

For more information on building GitHub repositories, one can visit the below URL

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

Question 30

Which of the following would you configure in the test for the requirement

"You must ensure that tests are conducted from 5 locations at a duration of every 5 minutes"

- Parse dependent requests
- Enable retries for availability test failures
- Test locations (Correct)
- Content match (Incorrect)

Explications

You can set this up from the test location setting in Application Insights

The screenshot shows the Azure Application Insights portal with the 'app-insights' resource selected. On the left, there's a chart titled 'Availability' showing 100% availability over the last 24 hours. Below the chart, a table provides detailed availability data for specific times and days. On the right, the 'Create Standard test' dialog is open. It includes sections for 'Basic Information' (Test name: app-test, URL: https://cloudportalhub.com), 'Availability' (checkboxes for 'Parse dependent requests' and 'Enable retries for availability test failures' are checked), 'Test frequency' (set to 5 minutes), and 'Test locations' (a dropdown menu where '5 selected' is highlighted with a red box). At the bottom, there's a section for 'Standard test info' with options for 'HTTP Request verb' (set to GET) and 'Add custom header'.

Question 31

Which of the following would you configure in the test for the requirement

"A successful test should mean that the main application page load along with the images on the page."

- Parse dependent requests (Correct)
- Enable retries for availability test failures
- Test locations (Incorrect)
- Content match

The screenshot shows the Azure Application Insights portal with a 'Create Standard test' dialog open. The 'Basic Information' section includes fields for 'Test name' (app-test), 'URL' (https://cloudportalhub.com), and 'Parse dependent requests' (which is checked and highlighted with a red box). Other options like 'Enable retries for availability test failures' and 'Enable SSL certificate validity' are also listed. Below the dialog, the 'Availability' chart shows 100% availability over the last 24 hours. The 'Standard test info' section at the bottom includes 'HTTP Request verb' (GET) and 'Add custom header'.

Explanations

You can configure the setting 'Enable retries for availability test failures'. This will ensure to parse all dependent requests which also includes images on the web page.

Question 32

An Azure DevOps pipeline has been setup to release a web application onto the Azure virtual machine. You have to configure an Azure Monitor alert that would generate an alert if the CPU utilization of the machine goes beyond 75% for 5 minutes. Azure Monitor should be configured to calculate the average CPU utilization every 15 minutes.

Which of the following would you configure as the threshold type for the alert?

Static

(Correct)

Dynamic

Explanations

Since this is based on a threshold value , we need to define a static alert.

Question 33

An Azure DevOps pipeline has been setup to release a web application onto the Azure virtual machine. You have to configure an Azure Monitor alert that would generate an alert if the CPU utilization of the machine goes beyond 75% for 5 minutes. Azure Monitor should be configured to calculate the average CPU utilization every 15 minutes.

Which of the following would you configure as the Aggregation granularity?

5 minutes

10 minutes

(Incorrect)

15 minutes

(Correct)

Explications

Here since the average needs to be calculated every 15 minutes , we have to define this as the Aggregation granularity.

Question 34

The application needs to pick up a secret defined in an Azure Key vault. The secret needs to be then used in the pipeline. Which of the following needs to be implemented for this requirement? Choose 3 answers from the options given below.

Create a service principal in Azure Active Directory (Correct)

Enable the managed identity for the Azure Key vault service (Incorrect)

Configure an access policy for the key vault (Correct)

Configure an access policy in Azure Active Directory

Configure a service connection in the pipeline (Correct)

Explanations

First, create a service principal in Azure Active Directory

Next configure an access policy in the key vault to give access to the service principal to the Key vault.

Then configure a service connection to the Azure subscription to use the Azure Key Vault.

For more information on using Azure Key vault secrets in Azure pipelines, one can also visit the below URL

<https://docs.microsoft.com/en-us/azure/devops/pipelines/release/azure-key-vault?view=azure-devops&tabs=yaml>

Question 35

Your team currently has an Azure DevOps pipeline that deploys application-based containers to an Azure Kubernetes cluster. The container images are stored in Azure container registry. As part of the security process, you have to ensure that you detect for any application security vulnerabilities as early on in the lifecycle as possible. Which of the following can be carried out for this requirement?

- A task which analyses the deployed container in the cluster for any security vulnerabilities
- A task which analyses the deployed container in an Azure container instance for any security vulnerabilities
- A task which analyses the image in Azure container registry for any security vulnerabilities

(Correct)

Explications

Since we need to check for any security vulnerabilities as early in the lifecycle as possible , we should scan the image in the Azure container registry.

Question 36

Which of the following in Azure pipelines allows you to reference secrets defined in an Azure Key vault?

Task groups

Deployment groups

(Incorrect)

Variable groups

(Correct)

Explications

You can reference secrets from an Azure Key vault with the use of Variable groups.

Question 37

Your team has an Azure Artifacts feed as shown below

The screenshot shows the Azure Artifacts feed interface. At the top, there's a dropdown menu set to "DevProjectFeed". Below it are buttons for "Connect to Feed", "Create Feed", "Recycle Bin", and other settings. A search bar with the placeholder "Filter by keywords" is followed by "View" and "Source" dropdowns. The main area displays a table with two rows. The first row contains a checkbox, a "Type" column with a "Package" icon, a "Name" column with "CoreServices", a "Version" column with "Version 184.0.0", a "Views" column with a value of 1, and a "Source" column with "This feed". The second row follows the same structure with "Newtonsoft.Json" and "Version 13.0.1" from "NuGet Gallery".

Type	Package	Views	Source
<input type="checkbox"/>	CoreServices Version 184.0.0	1	This feed
<input type="checkbox"/>	Newtonsoft.Json Version 13.0.1		NuGet Gallery

The feed is part of a private DevOps project. You have to ensure that other developers can restore the NuGet packages in the feed automatically. Which of the following can be used for this requirement?



Azure Artifacts Credential Provider

(Correct)



Azure Active Directory Application



Azure DevOps service connection



Azure DevOps service hook

Explications

You can use the Azure Artifacts Credential Provider to authenticate to the Azure Artifacts feed and get the packages accordingly.

Question 38

Your team is creating a build pipeline for a Java-based application. They want to use a tool that can calculate the percentage of code accessed by tests. Which of the following can be used for this requirement?

WhiteSource Bolt

Maven

(Incorrect)

Cobertura

(Correct)

Explications

This tool can be used to calculate the percentage of code accessed by tests for Java-based applications

For more information on the Cobertura tool, one can visit the below URL

<https://cobertura.github.io/cobertura/>

Question 39

Your team needs to deploy a set of resources via the use of Azure Resource Manager templates. These templates need to access secrets that would be stored in an Azure Key Vault resource. Which of the following is one of the aspects that needs to be configured in the key vault for this requirement?

- Azure Disk Encryption for volume encryption
- Soft-Delete for the key vault
- Azure Resource Manager for template deployment

(Correct)

The screenshot shows the 'Access policy' tab of an Azure Key Vault configuration. At the top, there are tabs for Basics, Access policy, Networking, Tags, and Review + create. The 'Access policy' tab is active. Below the tabs, there is a section titled 'Enable Access to:' with four checkboxes:

- Azure Virtual Machines for deployment (unchecked)
- Azure Resource Manager for template deployment (checked and highlighted with a red border)
- Azure Disk Encryption for volume encryption (unchecked)

Below the checkboxes, there is a 'Permission model' section with two radio buttons:

- Vault access policy (selected)
- Azure role-based access control (unchecked)

Explications

When you need ARM templates to access secrets in the key vault, you also need to configure the below setting

Question 40

Your team is currently working on source code for an application. A Git repository in Azure Repos is being used for version control. You have to ensure that the types of merges are limited when pull requests are being made to the master branch. Which of the following can be configured for this requirement?

Branch permissions

Branch policies

(Correct)

Service hooks

(Incorrect)

Agent pools

The screenshot shows the 'Branch Policies' section for the 'master' branch. It includes four policy options: 'Require a minimum number of reviewers', 'Check for linked work items', 'Check for comment resolution', and 'Limit merge types'. A red arrow points to the 'Limit merge types' option.

unit-test ← unit-test +

Filter by keywords

master Default Compare

Branch Policies

Note: If any required policy is enabled, this branch cannot be deleted and changes must be made via pull request.

Off Require a minimum number of reviewers
Require approval from a specified number of reviewers on pull requests.

Off Check for linked work items
Encourage traceability by checking for linked work items on pull requests.

Off Check for comment resolution
Check to see that all comments have been resolved on pull requests.

Off Limit merge types
Control branch history by limiting the available types of merge when pull requests are completed.

Explications

You can configure a branch policy for this as shown below

Question 41

Your team is currently working on different revisions of an application. The application builds are being made available via packages via the Azure Artifact service. You have to ensure that packages that are currently under development are not visible to users. Which of the following can be used for this requirement?

Upstream sources

Feed views

(Correct)

Package promotion

Explanations

With the use of Feed views, you can ensure that only certain packages are made available to users. Those packages which are still under development won't be visible to users.

For more information on Feed views , one can visit the below URL

<https://docs.microsoft.com/en-us/azure/devops/artifacts/concepts/views?view=azure-devops>

Question 42

Your team is planning on using Azure DevOps for the Continuous Integration and Deployment of an application. The application needs to be automatically deployed via Azure Pipelines onto a set of Azure virtual machines. Which of the following would you provision in Azure DevOps to manage the target servers?

Agent pools

Target jobs

Deployment Groups

(Correct)

Explanations

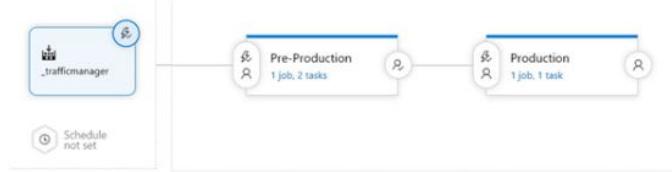
You can make the machines as part of a deployment group.

For more information on Deployment Groups , one can visit the below URL

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

Question 43

Your team currently has the following Release pipeline in place



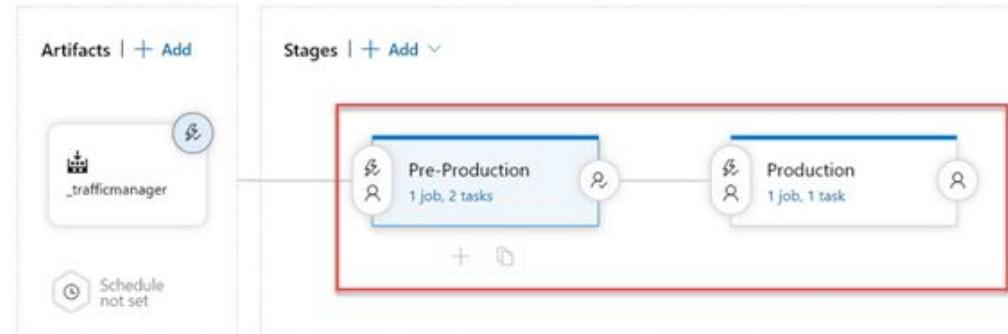
How many stages does the pipeline have?

- 1
- 2 (Correct)
- 3 (Incorrect)
- 4

Explications

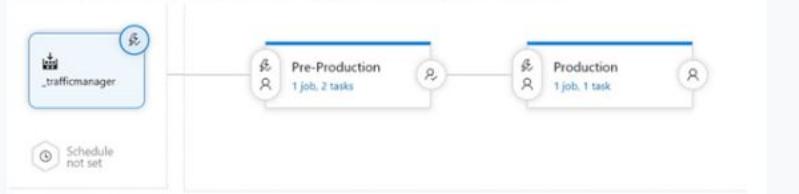
This is an example of a pipeline that has 2 stages.

The example is given below



Question 44

Your team currently has the following Release pipeline in place



Is the Continuous deployment trigger set for the pipeline?

Yes

(Correct)

No

Pipeline Tasks Variables Retention Options History

Continuous deployment trigger
Build: _trafficmanager

Enabled

Creates a release every time a new build is available.

Build branch filters

No filters added.

+ Add

Pull request trigger
Build: _trafficmanager

Disabled

Enabling this will create a release every time a selected artifact is available as part of a pull request workflow

Explications

If you click on the trigger, you will see that the Continuous deployment trigger is enabled

Question 45

Your team is working on application code within a git repository. You need to mark certain commits along the way as important application releases. You need to mark the first release for a particular commit. Which of the following statement would you issue for this requirement?

`git commit -m "Release v1.0"`

`git tag -a v1.0 -m "Release v1.0"`

(Correct)

`git push -m "Release v1.0"`

`git release -m "Release v1.0"`

Explications

The correct way to mark a release is to tag the required commit.

For more information on tags, one can visit the below URL

<https://git-scm.com/book/en/v2/Git-Basics-Tagging>