**Q1)** You have to create a build pipeline in Azure DevOps. You already have a project in place. The build pipeline would pick up an ASP.Net Core application from Azure repos. After the build process, all artifacts must be present so that it could be released by a subsequent release pipeline defined in Azure DevOps.
You have defined the following build pipeline:
You have to ensure all artifacts are present for the release pipeline. You decide to add an App Center to distribute the task.
Would this fulfill the requirement?

● Correct
✅ Incorrect

**Explanation:-**This task is specifically meant to distribute builds to testers and users through the App Center.

---

**Q2)** You have to create a build pipeline in Azure DevOps. You already have a project in place. The build pipeline would pick up an ASP.Net Core application from Azure Repos. After the build process, all artifacts must be present so that it could be released by a subsequent release pipeline defined in Azure DevOps.
You have defined the following build pipeline:
You have to ensure all artifacts are present for the release pipeline. You decide to add an App Service Deploy task.
Would this fulfill the requirement?

● Correct
✅ Incorrect

**Explanation:-**This task is meant to deploy a build to the Azure App service.

---

**Q3)** You have to create a build pipeline in Azure DevOps. You already have a project in place. The build pipeline would pick up an ASP.Net Core application from Azure Repos. After the build process, all artifacts must be present so that it could be released by a subsequent release pipeline defined in Azure DevOps.
You have defined the following build pipeline:
You have to ensure all artifacts are present for the release pipeline. You decide to add a Publish Build Artifacts task.
Would this fulfill the requirement?

● Incorrect
✅ Correct

**Explanation:-**Yes, this can be used to publish the build and make it available for release pipelines defined in Azure DevOps.

---

**Q4)** The following release pipeline has been defined in Azure DevOps.
The Artifacts section has been defined to pick up the artifacts from a build pipeline defined in Azure DevOps.
Would the release pipeline be triggered automatically when the associated build pipeline completes the build process?

● Correct
✅ Incorrect

**Explanation:-**If you look closely at the Artifacts section, the lightning symbol indicates that the build would not be triggered automatically. When you actually edit the Artifacts section, you can actually see this setting.

---

**Q5)** The following release pipeline has been defined in Azure DevOps.
The Artifacts section has been defined to pick up the artifacts from a build pipeline defined in Azure DevOps.
You have to configure the pipeline to ensure that approval is required before the build can be released to the "Production" stage.
Which of the following would you implement to fulfill this requirement?

● Add a gate to the "Production" stage.
✅ Add an approval to "Production" stage.

**Explanation:-**You can easily perform this requirement by adding an approval to the "Production" stage.
1. First, modify the pre-stage configuration.
2. Then, Enable "Pre-deployment approvals".
3. Then, Enter the approvers for the stage.

● Add a gate to the "Staging" stage.
● Add a task to the "Production" stage.

---

**Q6)** The following release pipeline has been defined in Azure DevOps.
The Artifacts section has been defined to pick up the artifacts from a build pipeline defined in Azure DevOps.
You need to ensure the release pipeline deploys the source to an Azure Web App.
Which of the following must you add to the pipeline?

● A release
● A variable
✅ A task

**Explanation:-**You need to add a task to the pipeline as shown below.

● A gate

---

**Q7)** A company has the following Azure delivery pipeline in place:
You need to add a pre-deployment gate to the "Staging" stage. It would be based on Azure Monitor alerts.
You need to ensure the following:
- Alerts have time to be generated so that they could be evaluated by the gate
- You have to ensure that the gate fails if a maximum time period of 30 minutes is reached.
Which of the following would you configure for the gate to comply with the below requirement
"Alerts have time to be generated so that they could be evaluated by the gate"

- Minimum duration for steady results after a successful gates evaluation
- The time between re-evaluation of gates
- ✅ The delay before evaluation

**Explanation:-**This can be accomplished with the setting "The delay before evaluation". This would give enough time for the alerts to be in a state that they communicate their status to the gates.

The Microsoft documentation mentions the following on this setting.
- The timeout after which gates fail

---

**Q8) A company has the following Azure delivery pipeline in place:**
**You need to add a pre-deployment gate to the "Staging" stage. It would be based on Azure Monitor alerts.**
**You need to ensure the following:**
**- Alerts have time to be generated so that they could be evaluated by the gate**
**- You have to ensure that the gate fails if a maximum time period of 30 minutes is reached.**
**Which of the following would you configure for the gate to comply with the below requirement?**
**"You have to ensure that the gate fails if a maximum time period of 30 minutes is reached".**

- ✅ The timeout after which gates fail

**Explanation:-**This can be accomplished with the setting "The timeout after which gates fail".

The Microsoft documentation mentions the following on this setting:
- Minimum duration for steady results after a successful gates evaluation
- The time between re-evaluation of gates
- The delay before evaluation

---

**Q9) A company is currently hosting its Git repositories in a Bitbucket server that is located in its on-premise environment. The server is protected with a firewall. The firewall does not allow any Inbound Internet traffic. The company wants to use Azure DevOps for its build and release processes.**
**Which of the following components would you use to implement this requirement? (Choose 2)**

- Use service hooks
- ✅ Use a self-hosted agent

**Explanation:-**The Microsoft documentation states that you need to use the External Git connection for repositories hosted on on-premise servers that have a firewall in place.

Also, you would need your own custom agent to run the release.

The Microsoft documentation mentions the following.
- Use a Microsoft hosted agent
- ✅ Use an external Git connection

**Explanation:-**The Microsoft documentation states that you need to use the External Git connection for repositories hosted on on-premise servers that have a firewall in place.

Also, you would need your own custom agent to run the release.

The Microsoft documentation mentions the following.

---

**Q10) A team is currently using Azure DevOps for its production-based application. The application is currently using Azure Web Apps, Azure SQL database and Azure Functions. An email needs to be sent to the internal DevOps team whenever the web application fails to return a status code of 200.**
**Which of the following can be used to accomplish this?**

- Using Pipelines in Azure Devops
- Using Service Maps in Azure Application Insights
- ✅ Using Availability Tests in Azure Application Insights

**Explanation:-**An example of this is given in the Microsoft documentation which shows the use of availability tests for this sort of requirement.
- Using Application Maps in Azure Devops

---

**Q11) A company is planning on deploying an application using Azure Pipelines to several virtual machines. Virtual machines will be hosted both in Azure and in their on-premise data center. All the virtual machines have the Azure Pipelines agent installed. You need to recommend a strategy for ensuring the applications can be released to the various endpoints.**
**Which of the following would you use to deploy the application to the Virtual machines hosted in Azure?**

- Application Roles
- Resources groups
- Management groups
- ✅ Deployment groups

**Explanation:-**No matter what the type of the endpoint is, you have to make use of deployment groups. The Microsoft documentation mentions the following

---

**Q12) A company is planning on deploying an application using Azure Pipelines to several virtual machines. Virtual machines will be hosted both in Azure and in their on-premise data center. All the virtual machines have the Azure Pipelines agent installed. You need to recommend a strategy for ensuring the applications can be released to the various endpoints.**
**Which of the following would you use to deploy the application to the Virtual machines hosted in the on-premise data center?**

- Application Roles
- Resources groups
- Management groups
- ✅ Deployment groups

**Explanation:-**No matter what the type of the endpoint is, you have to make use of deployment groups. The Microsoft documentation mentions the following

---

**Q13) A team is planning on using Azure DevOps for its applications. They need to configure access to the Azure DevOps Agent pools. The access configuration must meet the following requirements:**

**- Ability to use a project agent pool when authoring build release pipelines**
**- Provide the ability to view the agent pool and agents of the organization**
**- Ensure the principle of least privilege is used**
**Which of the following role would you assign to the project in Azure DevOps?**

○ Reader

✅ Service Account

**Explanation:-**You would assign the Service Account role. This would fulfill the requirement of " Ability to use a project agent pool when authoring build release pipelines".

○ Administrator

○ User

---

**Q14) A team needs to create a Kubernetes cluster using the Azure CLI. The Kubernetes cluster needs to have monitoring enabled. You need to complete the following script for this purpose.**
**Which of the following would go into Slot2?**

○ template

○ monitoring

✅ aks

**Explanation:-**This is clearly given in the Microsoft documentation

○ group

---

**Q15) A team needs to create a Kubernetes cluster using the Azure CLI. The Kubernetes cluster needs to have monitoring enabled. You need to complete the following script for this purpose.**
**Which of the following would go into Slot3?**

○ aks

✅ monitoring

**Explanation:-**This is clearly given in the Microsoft documentation

○ group

○ template

---

**Q16) A team needs to create Resource Manager templates for deployment of virtual machines that would have a custom script extension. You need to complete the below resource manager template:**
**Which of the following would go into Slot1?**

○ CustomScriptExtension

○ Compute.Extensions

✅ Microsoft.Compute

**Explanation:-**An example of this is given in the Microsoft documentation

○ PowershellExtension

---

**Q17) A team needs to create Resource Manager templates for deployment of virtual machines that would have a custom script extension. You need to complete the below resource manager template:**
**Which of the following would go into Slot2?**

○ Compute.Extensions

✅ CustomScriptExtension

**Explanation:-**An example of this is given in the Microsoft documentation

○ Microsoft.Compute

○ PowershellExtension

---

**Q18) A team has just deployed an application onto Azure Kubernetes. Below is the status of the pods on the cluster:**
**You now need to scale the number of frontend pods to 5.**
**Which of the following command would you issue for this requirement?**

○ kubectl scale deployment/frontend=5

○ az aks scale deployment/frontend=5

✅ kubectl scale –replicas=5 deployment/frontend

**Explanation:-**The correct command to use is the kubectl command. An example of this is given in the Microsoft documentation

○ az aks scale –replicas=5 deployment/frontend

---

**Q19) A team currently has a GitHub repository. Their company has started using Azure DevOps and has now mandated to start using Azure Repositories. They have to get their source code into Azure Repositories in the simplest way possible. They decide to create a pull request for the existing repository.**
**Would this fulfill the requirement?**

○ Correct

✅ Incorrect

**Explanation:-**The pull request is used when you want to merge the changes in a branch onto the master branch in a repository.

---

**Q20) A company is planning on developing and deploying a set of applications. They want to use DevOps tools to implement the application lifecycle.**
**They have the following requirements when it comes to choosing the right DevOps tools:**
**- All work items need to be segregated into sprints**
**- The scrum master needs to be able to see how the work items are progressing in each sprint**
**- All application builds and deployments must be carried out using build and release pipelines**
**- All possible measures need to be taken to avoid the need to manage the underlying infrastructure**

**- Tools must be put in place to perform the following testing procedures:**
**- Unit testing for application code**
**- Application code checks for any open source licensing issues**
**- Penetration testing for the application in the development and testing stage**
**Which of the following would you implement to comply with the following requirement?**
**"The scrum master needs to be able to see how the work items are progressing in each sprint"**

○ Customize the cards in Azure Boards for each sprint
● Create multiple iterations for each sprint
✅ Add the required widgets to the dashboard in Azure Boards

**Explanation:-**You can make use of widgets in Azure Boards to get a good idea of the work items are progressing in a sprint.

The Microsoft documentation mentions the following:

● Create gates that would output the release status to Azure Boards

---

**Q21) A company is planning on developing and deploying a set of applications. They want to use DevOps tools to implement the application lifecycle.**
**They have the following requirements when it comes to choosing the right DevOps tools:**
**- All work items need to be segregated into sprints**
**- The scrum master needs to be able to see how the work items are progressing in each sprint**
**- All application builds and deployments must be carried out using build and release pipelines**
**- All possible measures need to be taken to avoid the need to manage the underlying infrastructure**
**- Tools must be put in place to perform the following testing procedures:**
**- Unit testing for application code**
**- Application code checks for any open source licensing issues**
**- Penetration testing for the application in the development and testing stage**
**Which of the following tool would you use to implement your build and release pipelines?**

○ TeamCity
✅ Azure DevOps Services

**Explanation:-**Since you need to comply with the requirement "All possible measures need to be taken to avoid the need to manage the underlying infrastructure", you need to opt for software as a service such as Azure DevOps Services.

The Microsoft documentation mentions the following:

● Azure DevOps Server 2019
● Jenkins

---

**Q22) A company is planning on developing and deploying a set of applications. They want to use DevOps tools to implement the application lifecycle.**
**They have the following requirements when it comes to choosing the right DevOps tools:**
**- All work items need to be segregated into sprints**
**- The scrum master needs to be able to see how the work items are progressing in each sprint**
**- All application builds and deployments must be carried out using build and release pipelines**
**- All possible measures need to be taken to avoid the need to manage the underlying infrastructure**
**- Tools must be put in place to perform the following testing procedures:**
**- Unit testing for application code**
**- Application code checks for any open source licensing issues**
**- Penetration testing for the application in the development and testing stage**
**Which of the following could be used as a tool to comply with the below requirement?**
**"Application code checks for any open source licensing issues"**

○ Azure release pipeline gates
● Jenkins
✅ WhiteSource Bolt

**Explanation:-**You can use WhiteSource Bolt to comply with this requirement.

The Marketplace for Visual Studio mentions the following on this software:

● Azure Artifacts

---

**Q23) A company wants to start using Azure DevOps. Three projects have been created in Azure DevOps for different departments. Each department has different requirements for its project management process.**
**The department-based requirements are given below:**
**You have to decide on the right process to adopt for Azure Boards for each department.**
**Which of the following would you adopt for DepartmentA?**

○ CMMI
✅ Scrum

**Explanation:-**Here since you want to track the product backlog items on a Kanban board, you should choose the Scrum process.

The Microsoft documentation mentions the following on the process:

● Agile
● XP

---

**Q24) Which of the following is not a consideration when you build a scaling strategy into your application?**

○ Startup time of your instances
● State management of your application
✅ The backup retention policies for your instances

**Explanation:-**While it's important to define the backup retention policies, it's unrelated to the ability of your application to scale.

● Automating the scaling of your instances based on a metric or schedule

---

**Q25) Which of the following is the definition of the term "network latency"?**

● A private circuit between an on-premises network and Azure

● The TTL of an asset in a content delivery network
✅ The amount of time it takes for information to be sent from a source to a destination
**Explanation:-**Latency is a measure of network transit time.
● The amount of throughput available on the network

---

**Q26) Suppose your web application is hosted in East US. Which of the following is the most cost-effective way to optimize network latency for users around the world?**

● Deploy more instances in East US to serve the extra user load.
● Use Azure Traffic Manager in performance routing mode.
✅ Use a content delivery network to place assets and content closer to your users.
**Explanation:-**By using a content delivery network, assets are cached at locations physically closer to users, which reduces the amount of time to load them. A content delivery network cost-effectively improves network latency for users around the globe.
● Deploy Azure ExpressRoute to each of your users.

---

**Q27) What is polyglot persistence?**

● A way to keep connections alive for data transfers
✅ The use of different data storage technologies for different purposes in your application
**Explanation:-**Polyglot persistence is the use of different data storage technologies in the same application so that you can use the best approach for each type of data.
● Using Azure SQL Database to store all of your data
● An approach to deal with transient data faults

---

**Q28) True or false: Azure Cache for Redis improves the performance of your application by storing a snapshot of data in memory.**

● Incorrect
✅ Correct
**Explanation:-**Azure Cache for Redis stores application data in memory, which leads to fast retrieval times and an improvement in application performance related to frequently accessed data.

---

**Q29) True or false: Log Analytics tracks custom logs and metrics.**

● Incorrect
✅ Correct
**Explanation:-**For custom logs and metrics, you can use the HTTP Data Collector API to write data to Log Analytics from any REST API client or an Azure Logic App to write data from a custom workflow.

---

**Q30) Which of the following is a benefit of incorporating CI/CD into your development processes?**

✅ Earlier identification of code defects.
**Explanation:-**Your developers will be able to identify and resolve code defects earlier in the development cycle.
● Build processes revert to manual compilation, thereby allowing you to catch potential issues.
● Longer time between validation of developer code.
● Decreased confidence when deploying your code to production.

---

**Q31) Which of the following is true of microservice architectures?**

● Microservices require that all services be developed with the same language.
● All services typically run on the same virtual machine.
✅ Communication between services is typically through REST calls.
**Explanation:-**REST calls are the most common mechanism used for communication.
● One large development team builds and maintains the entire code base.

---

**Q32) Which of the following would you use to troubleshoot the performance of API calls in your application?**

✅ Application Insights
● Activity Log
● Network Watcher
● Service Health

---

**Q33) A company wants to start using Azure DevOps. Three projects have been created in Azure DevOps for different departments. Each department has different requirements for its project management process.**
**The department-based requirements are given below:**
**You have to decide on the right process to adopt for Azure Boards for each department.**
**Which of the following would you adopt for DepartmentB?**

● Scrum
● CMMI
✅ Agile
**Explanation:-**Here since you need to track user stories on a Kanban board, you should opt for the Agile process.
The Microsoft documentation mentions the following on the process.
● XP

**Q34) A company wants to start using Azure DevOps. Three projects have been created in Azure DevOps for different departments. Each department has different requirements for its project management process.**
**The department-based requirements are given below:**
**You have to decide on the right process to adopt for Azure Boards for each department.**
**Which of the following would you adopt for DepartmentC?**

- ⬤ XP
- ⬤ Scrum
- ✅ CMMI

**Explanation:-**Here since the department needs a more agile process to track requirements, reviews and change requests, you should use the CMMI process.

The Microsoft documentation mentions the following on the process.

- ⬤ Agile

---

**Q35) A team is planning on using the testing tools available in Azure DevOps services. They want to have the following defined in Azure DevOps.**
**- Ability to group test suite sand individual test cases together**
**- Ability to group test cases into separate testing scenarios within a test plan**
**- Ability to add testing steps for testing an application**
**Which of the following would you use for the given requirement**

- ✅ Test plans

**Explanation:-**You have to use Test Plans for this requirement.

The Microsoft documentation mentions the following.

- ⬤ Load Tests
- ⬤ Test cases
- ⬤ Test suites

---

**Q36) A team currently has a GitHub repository. Their company has started using Azure DevOps and has now mandated to start using Azure Repositories. They have to get their source code into Azure Repositories in the simplest way possible. They decide to create to import the repository. Would this fulfil the requirement?**

- ⬤ Incorrect
- ✅ Correct

**Explanation:-**Yes, you can just simply import the entire Github repository from Azure Repositories.

In Azure repositories, click on "Import repository".

You can then just provide the GitHub URL and click on Import.

---

**Q37) A team is currently using a Git-based repository in Azure repositories. The repository is being used for the source code of a web-based application. The repository has the main master branch and many feature topics branches. There is a large volume of feature requests. It is becoming difficult to follow the history of the changes to the master branch.**
**You have to design a pull request merge strategy that would meet the following requirements:**
**- Allows consolidation of all commit histories**
**- Merge the changes into a single commit**
**You need to choose the right branching strategy.**
**Which of the following would you choose?**

- ✅ squash merge

**Explanation:-**You can implement this with the squash merge technique.

This is also given in the Microsoft documentation.

- ⬤ slow-merge
- ⬤ fast-forward merge
- ⬤ Git fetch

---

**Q38) A company is currently making use of Azure pipelines for continuous integration and delivery. You have to configure a custom agent that would be required to run Linux-based containers.**
**Which of the following is required by Azure Pipelines for Linux-based containers? (Choose 2)**

- ⬤ Inclusion of python scripts
- ✅ No definition of an ENTRYPOINT

**Explanation:-**This is given in the Microsoft documentation.

- ⬤ PowerShell
- ✅ Bash

**Explanation:-**This is given in the Microsoft documentation.

---

**Q39) A company is currently making use of Azure pipelines for continuous integration and delivery. You have to configure a custom agent that would be required to run Linux-based containers.**
**Which of the following needs to set on the agent host? (Choose 2.)**

- ⬤ Root permissions given to the agent
- ✅ Permission given to the agent for the Docker daemon

**Explanation:-**This is given in the Microsoft documentation.

- ✅ Installation of Docker

**Explanation:-**This is given in the Microsoft documentation.

- ⬤ Installation of SonarQube

---

**Q40) A company is planning on developing and deploying 4 applications. Each of the applications have different requirements when it comes to version control. The requirements are given below:**
**ProjectA – Here the project leads must be able to restrict access to individual files and folders in the repository**

**ProjectB- This project needs to ensure that The last build was successful before a check-in. Ensure that the check-in is associate with at least one work item**
**ProjectC – Here team members must be able to share code using Xcode**
**ProjectD – Here it needs to be ensured that the release branch is only viewable by project leads.**
**Which of the following source control system would you use for ProjectA?**

○ Git
○ Subversion
○ Perforce
✅ Team Foundation Version Control

**Explanation:-**This sort of requirement is possible with Team Foundation Version Control. The Microsoft documentation mentions the following

**Q41) A company is planning on developing and deploying 4 applications. Each of the applications have different requirements when it comes to version control. The requirements are given below:**
**ProjectA – Here the project leads must be able to restrict access to individual files and folders in the repository**
**ProjectB- This project needs to ensure that the last build was successful before a check-in. Ensure that the check-in is associate with at least one work item**
**ProjectC – Here team members must be able to share code using Xcode**
**ProjectD – Here it needs to be ensured that the release branch is only viewable by project leads**
**Which of the following source control system would you use for ProjectB?**

○ Git
○ Subversion
○ Perforce
✅ Team Foundation Version Control

**Explanation:-**This sort of requirement is possible with Team Foundation Version Control. The Microsoft documentation mentions the following

**Q42) A company is planning on developing and deploying 4 applications. Each of the applications have different requirements when it comes to version control. The requirements are given below:**
**ProjectA – Here the project leads must be able to restrict access to individual files and folders in the repository**
**ProjectB- This project needs to ensure that the last build was successful before a check-in. Ensure that the check-in is associate with at least one work item**
**ProjectC – Here team members must be able to share code using Xcode**
**ProjectD – Here it needs to be ensured that the release branch is only viewable by project leads.**
**Which of the following source control system would you use for ProjectC?**

○ Team Foundation Version Control
○ Perforce
○ Subversion
✅ Git

**Explanation:-**This can be done from Git. There is also a guide in Microsoft documentation on the same.

**Q43) A company is planning on developing and deploying 4 applications. Each of the applications has different requirements when it comes to version control.**
**The requirements are given below:**
**ProjectA – Here the project leads must be able to restrict access to individual files and folders in the repository**
**ProjectB- This project needs to ensure that the last build was successful before a check-in Ensure that the check-in is associated with at least one work item**
**ProjectC – Here team members must be able to share code using Xcode**
**ProjectD – Here it needs to be ensured that the release branch is only viewable by project leads**
**Which of the following source control system would you use for ProjectD?**

○ Git
○ Subversion
○ Perforce
✅ Team Foundation Version Control

**Explanation:-**This sort of requirement is possible with Team Foundation Version Control. The Microsoft documentation mentions the following

**Q44) A team is currently using a project in Azure Devops. The team needs to have a policy in place that ensures the following A user should be able to merge to a master branch even if the code fails to compile. The solution must use the principle of least privilege.**
**Which of the following would you implement?**

✅ Ensure to modify the access control for the user from the security setting of the branch
**Explanation:-**You can set permissions at the branch level. This is also given in the Microsoft documentation
○ Ensure to modify the access control for the user from the security setting of the repository
○ Ensure that the user is added to the Project Administrators group
○ Ensure that the user is added to the Build Administrators group

**Q45) Your team currently has the following DevOps environment defined:**
**- An Azure DevOps deployment**
**- A Jenkins server hosted on an Azure Virtual Machine**
**You need to ensure that a notification is sent to the Jenkins server whenever a developer commits a change to a branch in Azure Repos.**
**You decide to implement an email subscription as part of Azure DevOps Notification.**
**Would this fulfill the requirement?**

○ Correct
✅ Incorrect
**Explanation:-**The Notifications in Devops are used for sending internal notifications within the deployment. The Microsoft documentation mentions

**Q46) Your team currently has the following DevOps environment defined:**
**- An Azure DevOps deployment**
**- A Jenkins server hosted on an Azure Virtual Machine**
**You need to ensure that a notification is sent to the Jenkins server whenever a developer commits a change to a branch in Azure Repos.**
**You decide to implement a service hook.**
**Would this fulfill the requirement?**

⬤ Incorrect
✅ Correct

**Explanation:-**Yes, you can create a service hook from the Jenkins server to the Azure DevOps repo. An example of this is given in the Microsoft documentation

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**Q47) Your team currently has the following DevOps environment defined:**
**- An Azure DevOps deployment**
**- A Jenkins server hosted on an Azure Virtual Machine**
**You need to ensure that a notification is sent to the Jenkins server whenever a developer commits a change to a branch in Azure Repos.**
**You decide to implement a trigger in Azure pipelines.**
**Would this fulfill the requirement?**

⬤ Correct
✅ Incorrect

**Explanation:-**Azure Pipelines along with Jenkins build is normally used to trigger the entire build workflow.

---

**Q48) A team is currently building and deploying an application using Azure services which includes the Devops service. You have to advise on the right security tool to use to during the following phase of the development lifecycle:**
**- After a pull request**
**- During the continuous integration phase**
**- During the continuous delivery phase.**
**Which of the following would you use for the pull request phase?**

⬤ Load Testing
⬤ Threat Modeling
✅ Static Code Analysis

**Explanation:-**During the coding phase it is always preferential to use static code analyser tools. The Microsoft documentation mentions the following

⬤ Penetration Testing

---

**Q49) A company is planning on building several Azure Devops pipelines. They need to use hosted build agents for various application types.**
**Which of the following build agent pool would you use to host an application that runs on iOS?**

⬤ Hosted Ubuntu
✅ Hosted macOS

**Explanation:-**This can be done via the Hosted macOS agent. The Microsoft documentation mentions the following

⬤ Hosted Windows Container
⬤ Default

---

**Comprehension:**

**Overview**

Montana is an online training provider. They currently have a set of applications that need to be developed and deployed to Azure.

They want to implement DevOps processes and tools throughout the lifecycle for the applications.

**Requirements**

• Azure Build pipelines will be used to build application code stored in a GitHub repository

• Custom agents will be deployed with custom software installed.

• Application deployed via the release pipeline would be deployed to Azure virtual machines

• The configuration of the virtual machines must remain consistent during the lifecycle of the application

• A set of mobile applications will also be developed

• The mobile application needs to be distributed to users via App Center for testing

• All release pipelines would be configured using Azure release pipelines

• Azure Artifact feeds will be used for the development community

• It must be ensured that the Visual Studio App Center must be used to centralize the reporting of mobile application crashes and device types in use.

• Also, it must be ensured that all App Center must be used to centralize the reporting of mobile application crashes and device types in use.

• The Team leads must be able to create new packages and edit the permission for permission feeds

• The team members should be able to install packages

**Q50) Which of the following SDK packages related to App Center need to be installed for the mobile-based applications? (Choose 2)**

● Microsoft.AppCenter.Mobile
✅ Microsoft.AppCenter.Crashes

**Explanation:-**When setting up an application you have to install Microsoft.AppCenter.Analytics and Microsoft.AppCenter.Crashes.

● Microsoft.AppCenter.System
✅ Microsoft.AppCenter.Analytics

**Explanation:-**When setting up an application you have to install Microsoft.AppCenter.Analytics and Microsoft.AppCenter.Crashes.

---

**Comprehension:**

**Overview**

Montana is an online training provider. They currently have a set of applications that need to be developed and deployed to Azure.

They want to implement DevOps processes and tools throughout the lifecycle for the applications.

**Requirements**

• Azure Build pipelines will be used to build application code stored in a GitHub repository

• Custom agents will be deployed with custom software installed.

• Application deployed via the release pipeline would be deployed to Azure virtual machines

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**Q51)**

**"You have to add the starting code for the OnCreate() method to integrate the AppCenter SDK with mobile-based applications.**

**Which of the following would go into Slot1?"**

● Mobile
● Runtime
✅ Analytics

**Explanation:-**"Here you need to add the Type of "Analytics". This is given as the starting documentation when you setup a project in Visual Studio App Center."

● System

---

**Comprehension:**

**Overview**

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**Q52)**

**"You have to add the starting code for the OnCreate() method to integrate the AppCenter SDK with mobile-based applications.**

**Which of the following would go into Slot2?"**

● Mobile
● Runtime
✅ Crashes

**Explanation:-**"Here you need to add the Type of "Crashes". This is given as the starting documentation when you set up a project in Visual Studio App Center."

○ System

---

**Comprehension:**

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**Q53)**

**"You need to comply with the following requirement:**

**"The configuration of the virtual machines must remain consistent during the lifecycle of the application"**

**You decide to implement Azure Automation.**

**Would this fulfill the requirement?"**

○ Incorrect

✅ Correct

**Explanation:-**"Correct, you can use the State configuration of Azure Automation to achieve this. The Microsoft documentation mentions the following."

---

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**Q54)**

**"You need to comply with the following requirement:**

**"The configuration of the virtual machines must remain consistent during the lifecycle of the application"**

**You decide to implement an Azure virtual machine with Puppet installed.**

**Would this fulfill the requirement?"**

○ Incorrect

✅ Correct

**Explanation:-**"You can also implement configuration management using custom tools such as Chef and Puppet. A guide available on the Microsoft site mentions the following."

---

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**Q55)**

**"You need to define a secret in the release pipeline.**

**The secret can only be used in the "Release" stage of the pipeline.**

**Where would you define the secret in the pipeline"**

○ In the pipeline section
○ In the options section
○ In the secrets section
✅ In the variables section

**Explanation:-**"You would define this in the "Variables section. This is given in the Microsoft documentation."

---

**Comprehension:**

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**Q56)**

**You need to define a secret in the release pipeline.**

**The secret can only be used in the "Release" stage of the pipeline.**

**How would you ensure the secret is only defined for the "Release stage"?**

○ Add it as an option for the Release stage only
○ Add a tag for the variable
✅ Add a scope for the variable

**Explanation:-**You can define a scope for the variable as shown below.
○ Add a trigger for the Release stage only

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**Q57) Which of the following package feed permission should be given to the team leads?**

⚪ Contributor
✅ Owner
**Explanation:-**"You would need to give Owner privileges so that the team members could edit the feed permissions. Below is the list of permissions given in the Microsoft documentation."
⚪ Collaborator
⚪ Reader

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**Comprehension:**

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**Q58) Which of the following package feed permission should be given to the team members?**

⚪ Collaborator
⚪ Contributor
⚪ Owner
✅ Reader
**Explanation:-**"Even the reader access allows installation of packages. So, this should be the ideal permission to give to team members. Below is the list of permissions given in the Microsoft documentation."