

Q1)

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 Internet Information Services that runs in a Docker container?

- ☐ Hosted macOS
- ☐ Hosted Ubuntu
- ☒ Hosted Windows Container

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

- ☐ Default

**Q2) 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 Linux?

- ☐ Default
- ☐ Hosted macOS
- ☒ Hosted Ubuntu

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

- ☐ Hosted Windows Container

**Q3) A company is currently using Travis as its Continuous Integration tool. They now want to migrate to Azure and use a managed service. They decide to start using Team Foundation Server. Would this fulfill the requirement?**

- ☐ Correct
- ☒ Incorrect

**Explanation:-** Team Foundation Server is not a managed service. This is a software you would install in your on-premise location. And also note that Team Foundation Server is not tagged as Azure DevOps Server.

**Q4) A company is currently using Team Foundation Server 2013. They want to now migrate to Azure DevOps. Below are the key points that need to be observed for the migration:**

- All dates for the Team Foundation Version Control changesets need to be preserved
- All TFS artifacts need to be migrated
- The migration effort should be minimized

Which of the following step needs to be carried out for the migration?

- ☐ One must make use of public API based tools
- ☐ The TFS Integration Platform needs to be used
- ☒ The TFS database import service needs to be used

**Explanation:-** The TFS can be used to ensure the integrity of all data that is copied to Azure DevOps. This tool also has been recently branded as a Data migration tool for Azure DevOps. This is given as one of the options for the database migration

- ☐ The assets need to be copied manually

**Q5) Which of the following can be used by a company to manage technical debt for applications?**

- ☐ Jenkins
- ☒ SonarQube

**Explanation:-** The right tool for this is SonarQube. Below is what the documentation on Azure DevOps mentions about the tool

- ☐ WhiteSource Bolt
- ☐ PMD

**Q6) A company wants to store NuGet packages which are created by the internal development team. These packages need to be streamed to different departments. Each department must have its own container for consuming the NuGet packages.**

Which of the following would you use for storing the NuGet packages?

- ☐ Azure Functions
- ☐ Azure Logic Apps
- ☒ Azure Artifacts

**Explanation:-** You need to use Azure Artifacts for storing the NuGet packages. The Microsoft documentation mentions the following

- ☐ Azure Repository

**Q7) A team has currently setup a DevOps project. The lead wants to make use of the Analytics service to see the count of work items over time for each column of a Kanban board.**

Which of the following widget would service this purpose?

- ☒ Cumulative Flow Diagram

**Explanation:-** You can use the Cumulative Flow Diagram for this purpose. The Microsoft documentation mentions the following

- ☐ Lead Time
- ☐ Cycle Time
- ☐ Burnup

**Q8) A company has deployed solutions using the Azure Kubernetes service. They have solutions deployed to clusters running both Linux and Windows Server 2019. They want to be able to get the following metrics for the clusters:**

- Able to view the health of the clusters
  - Able to view the health of the underlying VM's
- Which of the following could be used for this purpose?**

- ☐ Azure Devops
- ☐ Azure Artifacts
- ☒ Azure Monitor

**Explanation:-**You can see all the metrics for the underlying resources for your cluster using the Azure Monitor service. The Microsoft documentation mentions the following

- ☐ Azure Advisor
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**Q9) What is a tenant in Azure AD?**

- ☐ A tenant represents a geographic location in an organization.
- ☐ A tenant represents a user in an organization.
- ☒ A tenant represents an entire organization.

**Explanation:-**You create a tenant for your organization so that your internal users can be managed by Azure AD.

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**Q10) What is an identity security score?**

- ☐ It's a number between 1 and 223 that indicates how well your organization's tenants align with each other.
- ☒ It's a number between 1 and 223 that indicates how aligned your security is with Microsoft best practices.

**Explanation:-**Use an identity security score to see how secure your Azure AD instance is.

- ☐ It's a number between 1 and 223 that indicates exactly how many identities are secured in your organization.
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**Q11) What does the term identity mean?**

- ☐ The service that does the authentication for users. It can also be an application.
- ☐ A user that can be authenticated. It has to be a user. Applications or services can't be considered as identities.
- ☒ Something that can be authenticated. It can be a user, application, service, or anything that needs to be identified.

**Explanation:-**An identity represents a user, or sometimes a service or an application, that needs access to do something.

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**Q12) Which licensing plan supports Identity Protection?**

- ☐ Azure Active Directory Free
- ☐ Azure Active Directory Premium P1
- ☒ Azure Active Directory Premium P2

**Explanation:-**Identity Protection helps you configure risk-based conditional access for your applications to protect them from identity-based risks.

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**Q13) What does Azure AD B2B provide?**

- ☒ Azure AD B2B allows you to invite external users to your tenant so that your staff can collaborate with them.

**Explanation:-**If your company works with external contractors, those contractors can be invited as guest users. When the work is done, access for those contractors can be revoked.

- ☐ Azure AD B2B allows you to let your users access virtual machines by using their company Azure AD credentials.
  - ☐ Azure AD B2B allows you to manage your customers' identities. It provides access to applications and resources.
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**Q14) What does Azure AD Application Proxy do?**

- ☐ You use it to add Azure AD Gallery applications to your instance of Azure AD.
- ☒ You use it to add on-premises applications to your instance of Azure AD.

**Explanation:-**By using Application Proxy in this way, you create secure remote access for your on-premises applications.

- ☐ You use it to identify applications in your instance of Azure AD.
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**Q15) If you delete a user account by mistake, can it be restored?**

- ☐ When a user account is deleted, it's gone forever and can't be restored.
- ☐ The user account can be restored, but only when it's created within the last 30 days.
- ☒ The user account can be restored, but only when it's deleted within the last 30 days.

**Explanation:-**A user account can be restored when it's deleted within the last 30 days. Go to the deleted user list to see the list of all of the deleted users.

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**Q16) What kind of account would you create to allow an external organization easy access?**

- ☐ An administrator account for each member of the external team.
- ☐ An external account for each member of the external team.
- ☒ A guest user account for each member of the external team.

**Explanation:-**A guest user account restricts users to just the access they need.

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**Q17) Which three items does a custom app need to authenticate with an Azure AD application?**

- ☐ Tenant ID, public key, and authentication key

☒ Tenant ID, application ID, and authentication key

**Explanation:-**An authorization request requires a tenant ID, application ID, and authentication key.

- ☐ Object ID, application ID, and authentication key
- ☐ Tenant ID, application ID, and object ID

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**Q18) What service is called when your application passes a token to Azure?**

- ☐ The service principal application
- ☐ Azure REST API
- ☒ Azure Resource Manager

**Explanation:-**Azure Resource Manager is the framework that a custom application uses to connect or authenticate to Azure resources.

- ☐ Azure Active Directory (Azure AD)

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**Q19) A company is currently using Travis as their Continuous Integration tool. They now want to migrate to Azure and use a managed service. They decide to start using Azure Pipelines. Would this fulfil the requirement?**

- ☒ Correct
- ☐ Incorrect

**Explanation:-**Yes, Azure Pipelines can be used as your replacement for Travis as a Continuous Integration tool. The Microsoft documentation mentions the following

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**Q20) A team is currently using the Azure Pipeline service for the CI/CD process for an application. The Pipeline needs to make use of a secret that needs to be shared across the pipeline. How would you define the secret?**

- ☐ In the YAML file, add a normal variable
- ☒ Set the secret in the pipeline editor

**Explanation:-**The ideal approach is to set the variable in the editor. This is also given in the Microsoft documentation

- ☐ In the YAML file, add a secret variable
- ☐ Set the secret in the application

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**Q21) A company wants to make use of Azure Pipelines for the management of the CI/CD process for various applications. When it comes to the approval process for the various stages for the deployment process, they have the following requirements:**

- It is necessary for a group of users to manually validate a change request for the deployment of an application can occur to the QA stage
- After the deployment of an application to the QA stage, a group of users must manually sign off before the application can be released to the production stage
- It must also be ensured that no pending issues or work items are present for the application before the application can be deployed to the QA stage.

**Which of the following would you use for the requirement?**

**“It is necessary for a group of users to manually validate a change request for the deployment of an application can occur to the QA stage”**

- ☐ Pre-deployment gates
- ☐ Post-deployment approvals
- ☒ Pre-deployment approvals

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

- ☐ Post deployment gates

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**Q22) A company wants to make use of Azure Pipelines for the management of the CI/CD process for various applications. When it comes to the approval process for the various stages for the deployment process, they have the following requirements:**

- It is necessary for a group of users to manually validate a change request for the deployment of an application can occur to the QA stage
- After the deployment of an application to the QA stage, a group of users must manually sign off before the application can be released to the production stage
- It must also be ensured that no pending issues or work items are present for the application before the application can be deployed to the QA stage.

**Which of the following would you use for the requirement?**

**“After the deployment of an application to the QA stage, a group of users must manually sign off before the application can be released to the production stage”**

- ☐ Post deployment gates
- ☐ Pre-deployment gates
- ☒ Post-deployment approvals

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

- ☐ Pre-deployment approvals

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**Q23) A development team has implemented Azure Pipelines. They have defined an approval process based on a condition. There is a policy attached that the approvals must be completed within 5 hours.**

**But after implementation, the deployments start failing after 2 hours.**

**You need to ensure the deployments only fail if the approval time is longer than 5 hours.**

**You decide to modify the Timeout setting from the pre-deployment approvals from the Pre-deployment conditions section**

**Would this fulfill the requirement?**

- ☐ Incorrect
- ☒ Correct

**Explanation:-**In the Microsoft documentation, it mentions that if the Timeout is exceeded for an approval process, the deployment is rejected. Since we are looking at a pre-deployment stage, this is the right approach to change the timeout for this process.

**Q24) A team has currently set the timeout for job to zero for one of the pipelines defined in Azure Pipelines. The pipeline is using Microsoft hosted agents along with a public repository. How long would the job run with these settings defined?**

- ☐ 60 minutes
- ☒ 360 minutes

**Explanation:-**This is mentioned in the Microsoft documentation

- ☐ Forever
- ☐ 1 day

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**Q25)**

**Your team is currently configuring a stage in Azure pipelines to deploy an application to Azure Service Fabric.**

**Which of the following is required when configuring a connection in Azure Pipeline for deployment to Azure Service Fabric?**

- ☐ Application credentials
- ☒ Server certificate thumbprint

**Explanation:-**For deployment of an application using Azure Pipelines to Azure Service Fabric, you would need to have the cluster endpoint and the Server certificate thumbprint. This is also mentioned in the Microsoft documentation

- ☒ The cluster endpoint

**Explanation:-**For deployment of an application using Azure Pipelines to Azure Service Fabric, you would need to have the cluster endpoint and the Server certificate thumbprint. This is also mentioned in the Microsoft documentation

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**Q26) A team wants to deploy a set of resources using Resource Manager templates. They have to complete the Azure CLI script below to deploy the template.**

**The template is located in a folder on a workstation machine.**

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

- ☐ --template-file
- ☐ --template-uri
- ☒ group create

**Explanation:-**The first step is to create a resource group.

An example of this is also given in the Microsoft documentation.

- ☐ group deployment create

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**Q27)**

**A company is currently managing its build process via a Jenkins server hosted on a virtual machine in Azure.**

**They want to make use of Azure Pipelines for their release process.**

**They want to ensure that all output from the Jenkins CI project is stored in an Azure storage account.**

**Which of the following would you configure for this requirement?**

- ☐ From Azure Pipelines, create an Azure storage connection
- ☒ Install the Azure Storage plugin in Jenkins

**Explanation:-**The right way to do this is to install the Azure Storage plugin in Jenkins. The Microsoft documentation mentions the following

- ☐ From Azure BLOB storage, configure a Jenkins service connection
- ☐ Install the Azure Storage plugin in Azure Pipelines

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**Q28) A company wants to implement a source code versioning management system for its project. They have the following requirements:**

**- There should be no issues related to case-sensitivity when commits are made from multiple development teams**

**- There should be no restriction on file and folder names.**

**Which of the following would you consider implementing for the company?**

- ☐ Git running on macOS
- ☐ Subversion running on Linux
- ☒ Azure Repos

**Explanation:-**These restrictions can be removed by using Azure Repos. The Microsoft documentation mentions the following

- ☐ Git running on Windows

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**Q29) A company is planning on using the Azure Kubernetes service for hosting its docker based applications. They want to use Role-Based access to give access to a set of Azure AD users to manage the clusters in the service.**

**Which of the following can be used to grant access to the users for the cluster?**

- ☐ AzureADRole
- ☐ DockerRole
- ☒ ClusterRole

**Explanation:-**The Microsoft documentation mentions the following

- ☐ KubernetesRole

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**Q30) A company is planning on using the Azure Kubernetes service for hosting their docker based applications. They want to use Role Based access to give access to a set of Azure AD users to manage the clusters in the service.**

**Which of the following is used to grant role permissions to the cluster?**

- ☐ ClusterRoleAccess
- ☐ PermissionAssignment
- ☒ ClusterRoleBinding

**Explanation:-**The Microsoft documentation mentions the following

- ☐ PermissionDefinition

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**Q31) Your company is developing an application for iOS devices. The members having these devices will receive the application via Visual Studio App Center. The members are part of a private distribution.**

**Which of the following certificate type is used for distribution of the application via the App Center?**

- ☒ .p12

**Explanation:-**The certificate must be of the .p12 format, this is also given in the Microsoft documentation

- ☐ .pfx
- ☐ .pvi
- ☐ .cer

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**Q32) A development team has currently setup an Azure repository for source code versioning. They currently have the git client installed on their Windows workstations. They will be using this client to connect to the Azure Repo.**

**Which of the following mechanism is used to authenticate into the repo?**

- ☐ Certificates
- ☐ Group access
- ☐ Role Based access
- ☒ Personal Access token

**Explanation:-**For git clients, they would normally use Personal Access tokens for authentication. The Microsoft documentation mentions the following

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**Q33) A development team has currently setup an Azure repository for source code versioning. They currently have the git client installed on their Windows workstations. They will be using this client to connect to the Azure Repo.**

**Which of the following should be used to manage the authentication from the Windows client?**

- ☐ Azure Repo Roles
- ☐ Azure Repo Credential Manager
- ☒ Git Credential Manager

**Explanation:-**This needs to be managed via the Git Credential manager. The Microsoft documentation mentions the following

- ☐ SSH

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**Q34) How would you migrate the source code from Team Foundation Server onto Azure Devops?**

- ☐ Clone the repositories into Azure Devops
- ☒ Import the repositories into Azure Devops

**Explanation:-**You can do an import of the registry. An example of this is given in the Microsoft documentation

- ☐ Import the server onto Azure Devops
- ☐ Migrate the server onto Azure Devops

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**Q35) A team wants to deploy a set of resources using Resource Manager templates. They have to complete the Azure CLI script below to deploy the template.**

**The template is located in a folder on a workstation machine.**

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

- ☐ --template-file
- ☐ --template-uri
- ☐ group create
- ☒ group deployment create

**Explanation:-**The next step is to use the "group deployment" command to deploy the template to the resource group.

An example of this is also given in the Microsoft documentation.

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**Q36) A team wants to deploy a set of resources using Resource Manager templates. They have to complete the Azure CLI script below to deploy the template.**

**The template is located in a folder on a workstation machine.**

**Which of the following would go into Slot**

- ☐ group deployment create
- ☐ group create
- ☐ --template-uri
- ☒ --template-file

**Explanation:-**Since the template file is in the local machine, we need to use the "--template-file" parameter to specify the template file.

An example of this is also given in the Microsoft documentation.

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**Q37) A team has deployed a Jenkins instance on an Azure virtual machine. The Jenkins administrator has defined a project named "montananet" as shown below.**

**The following steps need to be implemented for the project.**

- The source code for the build process must be picked up from Azure Repos
- The source code is a .Net based application.
- The Jenkins pipeline must build the application after the source code is checked out.

**Which of the following settings must be set in order for Jenkins to pick up the source code from Azure Repos?**

- DevOps project URL
  - ✔ Git URL
- Explanation:-**You need to set the Git URL as shown in the example below.
- This would ensure that Jenkins picks up the source code from the Azure Repo Git based repository
- GitHub project URL
  - DevOps TFS URL
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**Q38) A team has deployed a Jenkins instance on an Azure virtual machine. The Jenkins administrator has defined a project named “montananet” as shown below.**  
**The following steps need to be implemented for the project.**  
- The source code for the build process must be picked up from Azure Repos  
- The source code is a .Net based application.  
- The Jenkins pipeline must build the application after the source code is checked out.  
**How would you set up the authentication between Jenkins and Azure Repos?**

- By setting up a username and password in Azure DevOps
  - ✔ By setting up a Personal Access Token in Jenkins
- Explanation:-**You would need to generate a Personal Access Token in Azure DevOps as shown below.
- You could then use the same access token when setting up the Git URL in Jenkins.
- By setting up a username and password in Jenkins
  - By setting up a Personal Access Token in Azure DevOps
- 

**Q39) A team has deployed a Jenkins instance on an Azure virtual machine. The Jenkins administrator has defined a project named “montananet” as shown below.**  
**The following steps need to be implemented for the project.**  
- The source code for the build process must be picked up from Azure Repos  
- The source code is a .Net based application.  
- The Jenkins pipeline must build the application after the source code is checked out.  
**A developer needs to start making changes to the code stored in Azure repos. A fresh new machine has been given to the developer. The developer needs to start working on the source code.**  
**Which of the following could the developer implement to start working with the source code stored in Azure repos?**

- Upload newer files to the repository
  - Fork the repository
  - ✔ Make a clone of the repository
- Explanation:-**The ideal start is to make a clone of the repository on the local system. If you go to Azure repos, the clone option will present the URL which can be used to clone the repository.
- Commit the source code changes in Azure repos itself
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**Q40) A team has deployed a Jenkins instance on an Azure virtual machine. The Jenkins administrator has defined a project named “montananet” as shown below.**  
**The following steps need to be implemented for the project.**  
- The source code for the build process must be picked up from Azure Repos  
- The source code is a .Net based application.  
- The Jenkins pipeline must build the application after the source code is checked out.  
**After making changes to the source code on the local system and performing local commits, the developer now wants to merge the changes onto the master branch in Azure repos.**  
**Which of the following should ideally be done to make the merge onto the master branch?**

- Create a new merge request
  - Create a new push request
  - Create a new commit request
  - ✔ Create a new pull request
- Explanation:-**The ideal scenario is to create a pull request.
- The Microsoft documentation mentions the following:
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**Q41) A company wants to integrate the build of a set of applications into Azure DevOps. The applications are based on Erlang and Hack as the underlying programming language. You have to ensure that you can integrate these applications into Azure Build pipelines.**  
**Which of the following would you use in the build pipeline?**

- ✔ Create an Azure DevOps self-hosted agent that would run on Azure DevTest Labs
- Explanation:-**You can easily integrate the virtual machines within Azure DevTest Labs into Azure DevOps.
- The Microsoft documentation also has an article on the same as shown below.
- Use a Microsoft-hosted agent
  - Create an Azure DevOps self-hosted agent that would run on a Hyper-V machine
  - Create an Azure DevOps self-hosted agent that would run on an Azure virtual machine as part of Azure stack.
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**Q42) A company is planning on using Azure DevOps services for its build and release processes. They have a set of .Net applications that need to be incorporated into a build pipeline. They also want to make use of SonarQube for measuring technical debt and for identifying security vulnerabilities in the code.**  
**You have to ensure that the Azure build pipeline can use SonarQube for the build process.**  
**You have setup a separate virtual machine in Azure with SonarQube installed.**  
**You have to now setup Azure DevOps and the build pipeline in a project.**  
**Which of the following would you set up at the organization level for SonarQube integration?**

- A job
  - A task
  - ✔ An extension
- Explanation:-**You would set up an extension in your Azure DevOps organization.

So, you would first go to your "Organization settings". Next, you would go to Extensions. And then you would go to the marketplace and install SonarQube.

- ☐ A service connection

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**Q43) A company is planning on using Azure DevOps services for its build and release processes. They have a set of .Net applications that need to be incorporated into a build pipeline. They also want to make use of SonarQube for measuring technical debt and for identifying security vulnerabilities in the code.**

**You have to ensure that the Azure build pipeline can use SonarQube for the build process.**

**You have setup a separate virtual machine in Azure with SonarQube installed.**

**You have to now setup Azure DevOps and the build pipeline in a project.**

**Which of the following would you set up at the project level for SonarQube integration?**

- ☐ A job
- ☐ A task
- ☐ An extension
- ☒ A service connection

**Explanation:-**You have to set up a service hook in your DevOps organization.

So here you would first go onto your project and then go to the "Project settings".

Next, you would go to create a service connection and then choose SonarQube.

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**Q44) A company is planning on using Azure DevOps services for its build and release processes. They have a set of .Net applications that need to be incorporated into a build pipeline. They also want to make use of SonarQube for measuring technical debt and for identifying security vulnerabilities in the code.**

**You have to ensure that the Azure build pipeline can use SonarQube for the build process.**

**You have setup a separate virtual machine in Azure with SonarQube installed.**

**You have to now setup Azure DevOps and the build pipeline in a project.**

**You now have to complete the build pipeline YAML file as shown below. The build must ensure that SonarQube runs as part of the build process.**

**Which of the following would be a task that would ideally go into Task1?**

- ☐ VSBUILD Task
- ☐ SonarQube Analyze Task
- ☒ SonarQube Prepare Task

**Explanation:-**You first need to add the SonarQube Prepare Task.

An example of an implementation is given below:

The Prepare task must be before the solution build task.

- ☐ SonarQube Publish Task

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**Q45) A company is planning on using Azure DevOps services for its build and release processes. They have a set of .Net applications that need to be incorporated into a build pipeline. They also want to make use of SonarQube for measuring technical debt and for identifying security vulnerabilities in the code.**

**You have to ensure that the Azure build pipeline can use SonarQube for the build process.**

**You have setup a separate virtual machine in Azure with SonarQube installed.**

**You have to now setup Azure DevOps and the build pipeline in a project.**

**You now have to complete the build pipeline YAML file as shown below. The build must ensure that SonarQube runs as part of the build process.**

**Which of the following would be a task that would ideally go into Task2?**

- ☒ VSBUILD Task

**Explanation:-**Next comes the actual solution build task.

An example of an implementation is given below.

- ☐ SonarQube Analyze Task
- ☐ SonarQube Prepare Task
- ☐ SonarQube Publish Task

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**Q46) A company is planning on using Azure DevOps services for its build and release processes. They have a set of .Net applications that need to be incorporated into a build pipeline. They also want to make use of SonarQube for measuring technical debt and for identifying security vulnerabilities in the code.**

**You have to ensure that the Azure build pipeline can use SonarQube for the build process.**

**You have setup a separate virtual machine in Azure with SonarQube installed.**

**You have to now setup Azure DevOps and the build pipeline in a project.**

**You now have to complete the build pipeline YAML file as shown below. The build must ensure that SonarQube runs as part of the build process.**

**Which of the following would be a task that would ideally go into Task3?**

- ☐ SonarQube Prepare Task
- ☒ SonarQube Analyze Task

**Explanation:-**Next comes the SonarQube Analysis task.

An example of an implementation is given below:

- ☐ SonarQube Publish Task
- ☐ VSBUILD Task

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**Q47) A company is planning on using Azure DevOps services for its build and release processes. They have a set of .Net applications that need to be incorporated into a build pipeline. They also want to make use of SonarQube for measuring technical debt and for identifying security vulnerabilities in the code.**

**You have to ensure that the Azure build pipeline can use SonarQube for the build process.**

**You have setup a separate virtual machine in Azure with SonarQube installed.**

**You have to now setup Azure DevOps and the build pipeline in a project.**

**You now have to complete the build pipeline YAML file as shown below. The build must ensure that SonarQube runs as part of the build process.**

**Which of the following would be a task that would ideally go into Task4?**



- SonarQube Analyze Task
- SonarQube Prepare Task
- ✓ SonarQube Publish Task

**Explanation:-**And finally, you have the publish task which will publish the SonarQube results.

An example of an implementation is given below:

- VSBuild Task

**Q48) 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 clone of the entire repository. Would this fulfill the requirement?**

- Correct
- ✓ Incorrect

**Explanation:-**Cloning a repository is used when you want to work with the repository on your local system.

**Q49) Your company wants to start making use of the Azure container service for storing private Docker images. You have to create an Azure CLI script to create the Azure container registry You also have to deploy an image onto the registry. The Dockerfile and the application have been given to you for deployment as an image onto the registry. You have to complete the below Azure CLI commands for this purpose. Which of the following would go into Slot1?**

- acr build
- ✓ acr create

**Explanation:-**The first step is to create the Azure container registry which can be fulfilled by the “az acr create” command.

An example of this is given in the Microsoft documentation.

- group create
- --image

**Q50) Your company wants to start making use of the Azure container service for storing private Docker images. You have to create an Azure CLI script to create the Azure container registry You also have to deploy an image onto the registry. The Dockerfile and the application have been given to you for deployment as an image onto the registry. You have to complete the below Azure CLI commands for this purpose. Which of the following would go into Slot2**

- --image
- acr create
- ✓ acr build

**Explanation:-**The next step is to build the image and deploy it to the Azure container registry.

An example of this is given in the Microsoft documentation.

- group create

**Q51) Your company wants to start making use of the Azure container service for storing private Docker images. You have to create an Azure CLI script to create the Azure container registry You also have to deploy an image onto the registry. The Dockerfile and the application have been given to you for deployment as an image onto the registry. You have to complete the below Azure CLI commands for this purpose. Which of the following would go into Slot3?**

- group create
- acr build
- acr create
- ✓ --image

**Explanation:-**Here you have to specify the “--image” option to specify the image name.

An example of this is given in the Microsoft documentation.

**Q52) Your team is automating the build process for a Java based application by using Azure Devops. The team needs to have code coverage in place and then ensure the outcomes are published to Azure Pipelines. Which of the following can be used for the code coverage?**

- JavaTest
- ✓ Cobertura

**Explanation:-**Cobertura is a code coverage tool for Java. Below is a snippet of the documentation page for the tool.

It also has the ability to publish results to Azure DevOps as mentioned in the Microsoft documentation

- MSTest
- DevTest

**Q53) A project team is using Azure Devops for building and deploying projects using pipelines. The application using this infrastructure is a Java based application. You need to ensure a strategy is in place for managing technical debt. Which of the following would you recommend? Choose 2 answers from the options given below**

- ✓ Ensure to configure pre-deployment approvals in the deployment pipeline

**Explanation:-**SonarQube is the perfect tool that can be used for measuring technical debt. The Microsoft documentation mentions the following

Then ensure to create a pre-deployment approval task so that the approver can view the technical debt before proceeding with the approval

- Ensure to configure post-deployment approvals in the deployment pipeline
- Carry out an integration between Azure Devops and Azure DevTest Labs



✔ Carry out an integration between Azure DevOps and SonarQube

**Explanation:-**SonarQube is the perfect tool that can be used for measuring technical debt. The Microsoft documentation mentions the following

Then ensure to create a pre-deployment approval task so that the approver can view the technical debt before proceeding with the approval

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**Q54) A team is currently working on an application and a project has been created in DevOps for the application. The IT Security team wants to ensure that an automated process is put in place to detect whenever open source libraries are added to the code base. The automated process needs to be added to the build pipeline.**

**Which of the following would you use for this purpose?**

- ☐ Jenkins
- ✔ ☒ Black Duck

**Explanation:-**You can use the Black Duck product for this requirement. Below is what is mentioned about the product

- ☐ PMD
- ☐ Style Check

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**Q55) Your team has defined a new project in Azure DevOps. This is for a web application. You need to ensure that whenever code is checked in, a build is run automatically.**

**You decide to Enable continuous integration from the Triggers tab of the build pipeline.**

**Would this fulfill the requirement?**

- ☐ Incorrect
- ✔ ☒ Correct

**Explanation:-**In the Designer, you can go to the Continuous Integration section and ensure that triggers are enabled. This is also given in the Microsoft documentation

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**Q56) Your team has defined a new project in Azure DevOps. This is for a web application. You need to ensure that whenever code is checked in, a build is run automatically.**

**You decide to select Batch changes while a build is in progress from the Triggers tab of the build pipeline.**

**Would this fulfil the requirement?**

- ☐ Correct
- ✔ ☒ Incorrect

**Explanation:-**This is used when a batch of changes need to be built. The Microsoft documentation mentions the following on this setting

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**Q57) Your team has defined a new project in Azure DevOps. This is for a web application. You need to ensure that whenever code is checked in, a build is run automatically.**

**You decide to enable the Pull request trigger setting from the Triggers tab of the build pipeline.**

**Would this fulfil the requirement?**

- ☐ Correct
- ✔ ☒ Incorrect

**Explanation:-**This is more pertinent to a pull request. The Microsoft documentation mentions the following on this setting

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**Q58) A team is currently building an application using docker containers. Azure Pipelines is being used for the CI/CD process. The team wants to run multiple containers at the same time and also run tests on them.**

**Which of the following should be used for this requirement?**

- ☐ Use docker stack deploy
- ☐ Use the swarm service
- ☐ Docker multi-stage builds
- ✔ ☒ Docker compose

**Explanation:-**This can be achieved with the help of Docker compose. The Microsoft documentation mentions the following

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**Q59) A team is currently using Azure Pipelines for the CI/CD process for their Java based application. They are making use of Cobertura for their code coverage. They want the code coverage results to be published as part of Azure Pipelines.**

**Which of the following would you configure in Azure Pipelines?**

- ☐ Publish Cobertura Task
- ☐ Run Functional Tests
- ☐ Publish Test Results Task
- ✔ ☒ Publish Code Coverage Results Task

**Explanation:-**The right approach is to use the Publish Code Coverage Results Task. The Microsoft documentation mentions the following

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**Q60) A company is planning on using Azure Pipelines to deploy their ASP.Net and Node.js applications to a set of web servers. These web servers are nothing but virtual machines in Azure which have IIS installed. The company has the following requirements:**

**- Minimize the effort in deploying the application by giving the ability to deploy to a set of servers at once**

**- Provide an option for a gradual deployment to the servers**

**Which of the following would you use to fulfil the requirement?**

**“Minimize the effort in deploying the application by giving the ability to deploy to a set of servers at once”**

- ☐ Use the Custom Script Extension
- ☐ Use Role based access control
- ✔ ☒ Create Deployment Groups

**Explanation:-**The best option is to club the servers into a deployment group in Azure Pipelines. The Microsoft documentation mentions the following

- ☐ Create Azure policies

