Demo Questions

Microsoft AZ-400 Exam

Microsoft Azure DevOps Engineer Expert

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Question #1 *Topic 1*

You use Azure Artifacts to host NuGet packages that you create.
You need to make one of the packages available to anonymous users outside your organization.
The solution must minimize the number of publication points.
What should you do?

- A. Change the feed URL of the package
- B. Create a new feed for the package
- C. Promote the package to a release view.
- D. Publish the package to a public NuGet repository.

Correct Answer: *B*
Azure Artifacts introduces the concept of multiple feeds that you can use to organize and control access to your packages.
Packages you host in Azure Artifacts are stored in a feed. Setting permissions on the feed allows you to share your packages with as many or as few people as your scenario requires.
Feeds have four levels of access: Owners, Contributors, Collaborators, and Readers.
References:
https://docs.microsoft.com/en-us/azure/devops/artifacts/feeds/feed-permissions?view=vsts&tabs=new-nav

Question #2 *Topic 1*

Your company plans to use an agile approach to software development.
You need to recommend an application to provide communication between members of the development team who work in locations around the world. The applications must meet the following requirements:
☞ Provide the ability to isolate the members of different project teams into separate communication channels and to keep a history of the chats within those channels.
☞ Be available on Windows 10, Mac OS, iOS, and Android operating systems.
☞ Provide the ability to add external contractors and suppliers to projects.
Integrate directly with Azure DevOps.
 ▪
What should you recommend?

- A. Microsoft Project
- B. Bamboo
- C. Microsoft Lync
- D. Microsoft Teams

Correct Answer: *D*
☞ Within each team, users can create different channels to organize their communications by topic. Each channel can include a couple of users or scale to thousands of users.
☞ Microsoft Teams works on Android, iOS, Mac and Windows systems and devices. It also works in Chrome, Firefox, Internet Explorer 11 and Microsoft Edge web browsers.
☞ The guest-access feature in Microsoft Teams allows users to invite people outside their organizations to join internal channels for messaging, meetings and file sharing. This capability helps to facilitate business-to-business project management.
☞ Teams integrates with Azure DevOps.
Note: Slack would also be a correct answer, but it is not an option here.
References:
https://searchunifiedcommunications.techtarget.com/definition/Microsoft-Teams

Question #3 *Topic 1*

DRAG DROP -
You need to recommend project metrics for dashboards in Azure DevOps.
Which chart widgets should you recommend for each metric? To answer, drag the appropriate chart widgets to the correct metrics. Each chart widget may be used once, more than once, or not at all.
You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Select and Place:

Chart Widgets   **Answer Area**

| Burndown |

| Cycle Time |

The elapsed time from the creation of work items to their completion: ⬚

| Lead Time |

The elapsed time to complete work items once they are active: ⬚

| Velocity |

The remaining work: ⬚

Correct Answer:

Chart Widgets   **Answer Area**

The elapsed time from the creation of work items to their completion: | Lead Time |

The elapsed time to complete work items once they are active: | Cycle Time |

| Velocity |

The remaining work: | Burndown |

Box 1: Lead time -
Lead time measures the total time elapsed from the creation of work items to their completion.

Box 2: Cycle time -
Cycle time measures the time it takes for your team to complete work items once they begin actively working on them.

Box 3: Burndown -
Burndown charts focus on remaining work within a specific time period.
Incorrect Answers:
☞ Velocity provides a useful metric for these activities:
☞ Support sprint planning
☞ Forecast future sprints and the backlog items that can be completed
☞ A guide for determining how well the team estimates and meets their planned commitments
References:

https://docs.microsoft.com/en-us/azure/devops/report/dashboards/velocity-guidance?view=vsts
https://docs.microsoft.com/en-us/azure/devops/report/dashboards/cycle-time-and-lead-time?view=vsts
https://docs.microsoft.com/en-us/azure/devops/report/dashboards/configure-burndown-burnup-widgets?view=vsts

Question #4 *Topic 1*

You manage build pipelines and deployment pipelines by using Azure DevOps.
Your company has a team of 500 developers. New members are added continually to the team.
You need to automate the management of users and licenses whenever possible.
Which task must you perform manually?

- A. modifying group memberships
- B. adding users
- C. assigning entitlements
- D. procuring licenses

Correct Answer: *D*
Incorrect Answers:
A: You can seamlessly replace existing solutions with group-based licensing to more easily manage licenses in Azure DevOps. You can use Group rules.
C: Member Entitlement Management APIs allow managing Entitlements that include -
↪ License
↪ Extensions
↪ Project/Team memberships
References:
https://docs.microsoft.com/en-us/azure/devops/organizations/accounts/migrate-to-group-based-resource-management?view=vsts&tabs=new-nav
https://docs.microsoft.com/en-us/rest/api/azure/devops/memberentitlementmanagement/?view=azure-devops-rest-5.0

Question #5 *Topic 1*

DRAG DROP -
You need to increase the security of your team's development process.
Which type of security tool should you recommend for each stage of the development process? To answer, drag the appropriate security tools to the correct stages. Each security tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.
Select and Place:

Security Tools

| Penetration testing |

| Static code analysis |

| Threat modeling |

Answer Area

Pull request: [   ]

Continuous integration: [   ]

Continuous delivery: [   ]

Security Tools

Answer Area

Pull request: | Threat modeling |

Continuous integration: | Static code analysis |

Continuous delivery: | Penetration testing |

Correct Answer:

Box 1: Threat modeling -
Threat modeling's motto should be, "The earlier the better, but not too late and never ignore."

Box 2: Static code analysis -
Validation in the CI/CD begins before the developer commits his or her code. Static code analysis tools in the IDE provide the first line of defense to help ensure that security vulnerabilities are not introduced into the CI/CD process.

Box 3: Penetration testing -
Once your code quality is verified, and the application is deployed to a lower environment like development or QA, the process should verify that there are not any security vulnerabilities in the running application. This can be accomplished by executing automated penetration test against the running application to scan it for vulnerabilities.
References:
https://docs.microsoft.com/en-us/azure/devops/articles/security-validation-cicd-pipeline?view=vsts