



Azure DevOps Interview Questions and Answers

Introduction

One of the most in-demand skills in the IT business right now is Azure DevOps. DevOps engineers are becoming increasingly necessary as companies go to the cloud. With this article's compilation of the most important Azure DevOps Interview Questions and Answers, you may take advantage of all the new job opportunities if you're seeking a career in the field. Create your profile in this in-demand field by enrolling in our [Azure DevOps training in Chennai](#).

List of Azure DevOps Interview Questions for Freshers

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Azure DevOps Interview Questions and Answers for Freshers

1. Describe Azure DevOps.

Based on the Azure cloud computing platform, Microsoft offers a service called Azure DevOps that offers a full suite of tools for managing the software development life cycle. It offers integrated features that are accessible through an IDE client or a web browser.

2. What kinds of services does Azure DevOps offer?

The entire application administration process is made easier from top to bottom with Azure DevOps. Azure DevOps can be used to control every stage of the process, from the beginning to the end. This application lifecycle consists of building, testing, planning, coding, and deployment.

3. List a few benefits of Azure DevOps.

The following list includes some of Azure DevOps' most notable benefits.

- Software is continuously delivered.
- Solving complex problems easily.
- Problems should be quickly identified and solved.
- Fast feature transportation
- Keeping the workplace safe and secure.

4. Define Azure boards.

One Azure DevOps product is Azure Boards. It offers a wide range of features, including native support for Scrum and Kanban, customized dashboards, and integrated reporting, and aids in the management of work in software projects.

Azure Boards includes boards, work items, sprints, dashboards, backlogs, searches, and other features.

5. Define Azure Pipelines.

Code projects are automatically developed and tested using the Azure DevOps Pipeline. This Azure cloud solution is compatible with the majority of project types and languages. This service improves the code projects' accessibility for other users.

6. Explain Azure Test Plans.

One of Azure DevOps' products is Azure Test Plans. It offers a browser-based test management solution with essential features for planned manual testing, exploratory testing, and user acceptability testing. Together with stakeholder feedback, it also comes with a browser extension that allows for exploratory testing.

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7. What is the Forking Workflow?

Developers can access service-side repositories by forking Workflow. It is frequently used in conjunction with a Git hosting service such as Bitbucket and supports open-source projects.

8. What is continuous testing? How does test automation fit into DevOps?

The three pillars of DevOps are *automation, culture, and people*. In DevOps, continuous testing is essential. Software testing scripts are built and made auto-executable so that delivery pipelines can be used to enable frequent releases and automated testing.

9. Define the dogpile effect and the ways to avoid it.

The dogpile effect, also known as the cache stampede, occurs when a cache expires, and a large number of requests are made to the website at once. As the cache expires, the semaphore lock generates a fresh value, helping to prevent this effect.

10. What is VNet?

We utilize VNet to handle the rendering of our cloud network. Rendering ensures that the cloud instances that are launched are isolated from the other resources; as a result, only the network that is being used for the activity is affected.

11. Explain the Redis cache in Azure.

The well-known open-source Redis cache is comparable to the Azure Redis cache. It is an open-source database that offers safe access for Azure applications and functions nicely with caching and databases. Additionally, it preserves the appropriate data structure, including sets, hashes, etc.

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List of Azure DevOps Interview Questions for Experienced

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8. Define forks in Azure DevOps.
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10. Explain scale sets for virtual machines.
11. Explain fault domains.
12. What is the DevOps toolchain?

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Azure DevOps Technical Interview Questions and Answers for Experienced

1. Why DevOps with Azure?

Since it promotes quicker innovation, shorter development cycles, fewer deployment failures, increased teamwork and communication, and easier application maintenance, DevOps is crucial.

- By using tools to automate and speed up procedures, DevOps teams may enhance deployment frequency and dependability.
- Adopting a DevOps technique aims to make processes faster, more secure, and more efficient while also completing the software development process internally.
- Continuous software delivery, improved teamwork, simple deployment, increased efficiency and scalability, and enhanced application security are all advantages of DevOps.

2. What is the Azure DevOps lifecycle?

The Azure DevOps lifecycle comprises multiple stages:

- **Plan:** Organize work items, assign priorities, and identify tasks.
- **Develop:** Utilize version control, write the code, and work together.
- **Build:** It runs tests, compiles code, and automates builds.
- **Test:** Through testing, functionality and quality are confirmed.
- **Deploy:** This process automatically adjusts to various environments.
- **Monitor:** Keep an eye on the health and performance of the application.
- **Feedback:** Get input from users and make adjustments.

3. What are the most widely used DevOps tools for continuous deployment and continuous integration?

Some of the well-liked DevOps solutions for continuous integration and continuous deployment are as follows:

- Jenkins
- TeamCity
- GoCD
- Bamboo
- GitLab CI
- CircleCI
- Travis CI
- Codeship
- DeployBot
- AWS CodeDeploy
- Octopus Deploy
- Buddy
- Apache Gump.

4. What components make up Azure DevOps?

Azure DevOps is divided into several components:

- **Azure Boards:** It organizes and monitors tasks.
- Version control is used to manage source code in **Azure Repos**.
- Code is developed, tested, and deployed using **Azure Pipelines**.
- **Azure Test Plans:** It efficiently conducts tests.
- **Azure Artifacts:** Packages are shared and stored.
- **Azure DevOps Services:** It offers hosting services for cloud platforms.
- On-premises version of **Azure DevOps Server**.

5. Explain Azure Repos.

A version control system called Azure Repos is capable of managing code versions as well as the code itself throughout development. Any modifications made to the code by other teams are simple to follow.

- For improved team communication, it also maintains a thorough log of these modifications and their past. Later on, the modifications are combined.
- While Azure Repos offers Team Foundation Version Control as a centralized version control system, Git is a distributed version control system.

6. What are containers, and which ones does Azure DevOps support?

Software code, its configurations, dependencies, and packages can all be bundled into a single unit or object using containers. For quick, dependable, and consistent deployments anywhere, several containers can share the operating system and operate simultaneously on the same machine.

Azure DevOps offers container support for the following:

- Kubernetes
- Docker
- Azure Container Instances (ACI)
- Azure Container Registry (ACR)

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7. Define Memcached and list the important features of Memcached.

Memcached is a type of in-memory storage that caches data in RAM for lightning-fast access. By cutting down on the time needed to get data from a database, Memcached, a well-liked open-source in-memory caching solution, helps to accelerate dynamic web applications. Among Memcached's crucial attributes are as follows:

- **Easy Integration:** Memcached's basic, easy-to-use API makes it easy to integrate with web applications.
- **High performance:** Memcached can sustain millions of queries per second and is built to withstand large volumes of requests.
- **LRU eviction:** When memory gets full, Memcached removes objects from the cache using the Least Recently Used (LRU) mechanism.
- **Pluggable storage:** Memcached enables the use of several storage engines, like Redis, SQLite, File, Memory, and so forth.

- **Programming language support:** Memcached offers libraries for a wide range of well-known programming languages, including C, C++, Java, Python, Ruby, and PHP.

8. Define forks in Azure DevOps.

A copy of a Git repository that enables a developer to make changes to the codebase without affecting the original repository is known as a fork in Azure DevOps.

When you want to experiment with changes without affecting the main repository or when you want to make changes to a repository to which you do not have write access, forking is helpful.

- It permits numerous developers to collaborate on the same codebase at the same time without obstructing one another's progress.
- Azure DevOps Repos and the fork functionality work together to enable developers to quickly fork a repository and submit pull requests for approval and merging.
- Teams can work together on code development and track and manage code changes with its assistance.

9. Can Azure's availability sets be used with its scale sets?

Yes, Azure's scale sets and availability sets must cooperate. This is because we are aware that scale sets are collections of fault and update domains. These domains function in line with the sets of availability. Scale sets must therefore cooperate with availability sets to function.

10. Explain scale sets for virtual machines.

Virtual machine scale sets are a type of computer resource that we employ when we wish to deploy or administer two twin virtual machines (VMs). As the name implies, this resource is always available as a set created with a genuine autoscale-like setup.

11. Explain fault domains.

Fault domains are those logical groupings that are associated with hardware and that can share a network and power source. These are employed in the organization of data centers that we will use in the design of our virtual machines based on availability sets.

12. What is the DevOps toolchain?

- The list of tools required to complete each of the important DevOps phases, from planning to monitoring, is contained in the DevOps Toolchain.
- With the technologies in the DevOps toolchain, basic tasks like testing and deployment are automated.
- Simple jobs can be completed manually, but as the number of tasks grows and their complexity rises, automation becomes necessary.

Conclusion

To pass an Azure DevOps interview, it is essential to showcase your expertise in CI/CD pipelines, Azure Boards, and Artifacts at a very advanced level. Employers want to hire DevOps engineers who can extend their understanding of automation beyond the basics and control Infrastructure as Code using tools like Terraform, Bicep, Release Gates, and Self-Hosted Agents. Your capacity to communicate the intricacies of YAML pipelines, Branch Policies, and Security Scanning will prove your worth to cloud-native teams. As organizations strive to improve efficiency, your understanding of Azure Kubernetes Service (AKS) integrations will make you a high-level DevOps architect.

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