

Top **AWS** DevOps Interview Questions



1. What role does Amazon Web Services play in DevOps?

AWS is Amazon's cloud service platform, which enables users to quickly use DevOps principles. The tools given will be extremely useful in automating manual operations, allowing teams to manage complex settings and engineers to operate efficiently with the high velocity that DevOps delivers.

2. Why do we need DevOps and Cloud computing?

In the DevOps practice, development and operations are treated as a unified organism. This means that any kind of Agile development, combined with Cloud Computing, will provide a clear advantage in expanding techniques and developing methods to improve business adaptability. If the cloud were a car, DevOps would be the wheels.

3. Why choose AWS for DevOps?

There are various benefits to adopting AWS for DevOps. Some of them are listed below:

- *AWS is a ready-to-use service that does not require any additional software or configuration to get started.

- *With AWS, you can provision computational resources indefinitely, whether you need one instance or hundreds.

- *The pay-as-you-go policy with AWS will keep your pricing and budgets in control, ensuring that you can mobilize sufficiently while receiving an equal return on investment.

- *AWS brings DevOps methods closer to automation, allowing you to build faster and get better results in the development, deployment, and testing processes.

- *AWS services are easily accessible via the command-line interface or through SDKs and APIs, making them extremely programmable and efficient.

4. What does a DevOps Engineer do?

A **DevOps Engineer** is responsible for managing the IT infrastructure of an organization based on the direct requirement of the software code in an environment that is both hybrid and multi-



faceted. Provisioning and designing appropriate deployment models, alongside validation and performance monitoring, are the key responsibilities of a DevOps Engineer.

5. What are the major components of a CI/CD pipeline on AWS?

A typical AWS CI/CD pipeline consists of source code repositories (e.g., AWS CodeCommit, GitHub), build automation tools (e.g., AWS CodeBuild, Jenkins), artifact repositories (e.g., Amazon S3), deployment tools (e.g., AWS CodeDeploy), and orchestration services.

6. How do you manage and troubleshoot AWS resources and applications in a DevOps environment?

We monitor AWS resources and apps using Amazon CloudWatch for metrics and logs, AWS X-Ray for tracing and debugging, and third-party monitoring solutions such as Datadog or New Relic. We put up alerts and dashboards to proactively identify and handle problems.

7. Explain the blue-green deployment method and how it is executed on AWS.

Answer: Blue-green deployment is running two identical production environments (blue and green) concurrently and routing traffic between them. In AWS, Elastic Load Balancers (ELBs) and Auto Scaling Groups can be used to seamlessly swap traffic between application versions.

8. What are the benefits of using serverless computing with AWS DevOps?

Answer: Serverless computing on AWS, using services such as AWS Lambda and Amazon API Gateway, provides benefits such as decreased operational costs, automatic scaling, a pay-per-use pricing model, and faster time-to-market for apps, allowing for more effective DevOps methods.

9. How do you maintain compliance and control in AWS DevOps workflows?

In AWS DevOps, compliance and governance entail setting regulations and controls using services such as AWS Organizations, AWS Config Rules, AWS Service Catalog, and AWS CloudTrail for auditing and logging purposes. We enforce compliance standards, monitor permissions, and track modifications to ensure that regulatory obligations are met.

10. Please describe your experience with AWS monitoring and logging tools.

I've worked extensively with Amazon CloudWatch to monitor and gather metrics, AWS CloudTrail to log API activity, AWS Config to check resource configuration compliance, and AWS X-Ray to trace requests across distributed systems. These tools allow for proactive monitoring, troubleshooting, and optimization of AWS resources and applications in a DevOps context.