

DevOps Fresher Interview - Cross Questions with Answers

Q: Tell me about yourself.

A: I am an MCA graduate with internship experience in AWS and DevOps tools like Linux, Git, Docker, and Jenkins. I worked on automating deployments and managing infrastructure using best practices.

Q: Why did you choose DevOps as your career path?

A: I enjoy automation, problem-solving, and working with both development and operations, which aligns perfectly with DevOps.

Q: Which OS do you use and why?

A: I use Ubuntu Linux daily because it is open-source, stable, and widely used in servers and DevOps environments.

Q: What's the difference between Ubuntu and CentOS?

A: Ubuntu is Debian-based and user-friendly. CentOS is Red Hat-based and preferred in enterprise systems for stability and long-term support.

Q: What is EC2?

A: Amazon EC2 is a virtual server in the AWS cloud that allows scalable compute capacity.

Q: What happens behind the scenes when you launch an EC2 instance?

A: AWS allocates compute resources, configures networking, attaches storage, and boots the AMI in a virtualized environment.

Q: What is IAM?

A: IAM is AWS Identity and Access Management service to control access to AWS resources securely.

Q: What's the difference between an IAM role and an IAM user?

A: An IAM user is for a specific person or service; a role is temporary and used for permissions delegation without credentials.

Q: What is Docker and why do we use it?

A: Docker packages applications with dependencies into containers, ensuring consistent environments across development and production.

Q: Difference between a container and a virtual machine?

A: VMs virtualize hardware with full OS, while containers share the host OS kernel, making them lightweight and faster.

Q: How does a Jenkins pipeline work?

A: It automates software build, test, and deployment processes in sequential or parallel stages.

Q: How would you rollback a failed deployment?

A: By using Git to revert the last commit and triggering the pipeline again or using a backup image if using Docker/K8s.

Q: How do you monitor a service?

A: By using tools like Prometheus and Grafana to collect and visualize system and application metrics.

Q: What is Infrastructure as Code?

A: IaC is managing infrastructure using configuration files like Terraform scripts instead of manual processes.

Q: What's the biggest challenge DevOps solves?

A: It bridges the gap between development and operations, enabling faster, reliable software delivery.

Q: Tell me about a time you faced a challenge.

A: During deployment, a script failed due to permission errors. I debugged the logs, adjusted permissions, and added checks to prevent recurrence.