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Top 20 AWS DevOps Interview Questions and Answers

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AWS DevOps Interview Questions and Answers

The integration of AWS and DevOps is doing magic in industries by automating manual tasks and managing complicated environments with ease at scale. Certified professionals who have both skills are in demand in the job market. Here we come up with the top 20 AWS DevOps interview questions and answers to help you crack the interviews easily.

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AWS DevOps Interview Questions and Answers for Freshers

1. What does AWS DevOps mean?

AWS offers services that are designed to work exclusively with AWS and that assist any business in implementing DevOps. With the help of these technologies, teams can automate tedious tasks, manage complex systems at scale, and keep engineering control over the high velocity that DevOps makes possible.

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2. What is the need for cloud computing and DevOps?

In the DevOps practice, development and operations are viewed as a single unit. This implies that it will have a clear advantage in scaling methods and developing strategies to modify the adaptability of the firm when using cloud computing in conjunction with any kind of agile development.

3. Mention the main AWS components used in DevOps.

Every single AWS service is built with the DevOps culture in mind. The ones that make it possible for a strong CI/CD system to function are Amazon CodePipeline, AWS CodeBuild, AWS CodeDeploy, and AWS CodeStar.

4. Explain AWS CodePipeline.

You can automate release pipelines for quick and dependable application and infrastructure changes with AWS CodePipeline, a fully managed continuous integration and continuous delivery service.

5. Give a brief explanation of Infrastructure as Code (IaC).

Using the same version control system that the DevOps team uses for source code, Infrastructure as a Cloud (IaC) is the descriptive model management of the infrastructure, including networks, virtual machines, load balancers, and connection architecture.

6. Describe AMI.

An image that has all the information needed to launch an instance is called an Amazon Machine Image (AMI), and AWS maintains and updates them.

7. What is AWS CloudFormation?

It facilitates the management and configuration of

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the resources needed to set up AWS resources for improved application development, focus, and usability. The resources we need may be described using CloudFormation, and it will take care of the rest.

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8. What is DynamoDB on AWS?

It's an Amazon-created NoSQL database that can easily manage high volumes of data flow. Database tables that are easily scaled up or down to meet our needs can be created without significantly affecting performance.

9. How is Amazon Elastic Container Service (ECS) used by AWS DevOps?

Highly performant, highly scalable, and intuitive container management is provided by Amazon ECS. Customers may easily execute programs on EC2 instances with a managed cluster because of its simplicity of integration with Docker containers.

10. In AWS DevOps, what does AWS CodeCommit mean?

AWS offers CodeCommit, a source control solution that facilitates the safe and highly scalable hosting of Git repositories. It is no longer necessary to set up, manage, and scale the infrastructure of a source control system according to demand when using CodeCommit.

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AWS DevOps Interview Questions and Answers for Experienced

11. Describe AWS DynamoDB's features.

Among DynamoDB's attributes are:

NoSQL database: Because DynamoDB is a NoSQL

database, it offers flexible data storage without the need for a set schema.

Encryption: To help shield your data from unwanted access, it offers encryption both in transit and at rest. For the maintenance of encryption keys, it supports the AWS Key Maintenance Service (KMS).

Global tables: You may duplicate your tables across several AWS regions due to its support for global tables. This helps guarantee high availability and disaster recovery while enabling low-latency access to our data from any location on the globe.

12. Explain Elastic Kubernetes Service (EKS) on AWS.

With the help of this tool, utilizing Kubernetes on AWS is simpler and requires less concern for the intricate architecture needed to deliver apps.

An open-source program called Kubernetes simplifies the deployment, scaling, and administration of software that is kept in containers.

In addition, AWS Elastic Container Registry (ECR), where container images are stored, and Amazon Elastic File System (EFS), which provides shared storage, are compatible with AWS EKS. In this manner, we can quickly develop and maintain your awesome AWS container apps.

13. In DevOps, what function do logging and monitoring serve?

Monitoring: To guarantee smooth operations and identify problems early, monitoring entails gathering and evaluating data from various system components, including servers, databases, and networks.

The team can respond quickly to minimize any repercussions by using monitoring technologies to instantly warn them of any anomalies or errors.

Logging: Conversely, logging is the process of

documenting systemic occurrences and activities, including user actions and mistakes. To locate and resolve issues, this is helpful.

14. Explain a “build project”?

One of a build project’s main purposes is to interface with CodeBuild and assist in giving it the necessary definition. This can contain a range of data, including:

- The source code’s location.
- The right atmosphere for building.
- Instructions to execute for building.
- The output’s storage location.

15. Describe the AWS DevOps build process using CodeBuild.

Step 1: CodeBuild will create a temporary computing container. Based on the specified class for the construction project, this is carried out.

Step 2: It will then pull the source code to the same location and load the necessary runtime.

Step 3: Following this, the project is configured and the commands are run.

Step 4: The project and the produced artifacts are uploaded and stored in an S3 bucket.

Step 5: Users are free to discard the compute container at this time, as it is no longer required.

Step 5: CodeBuild will post the logs and outputs to Amazon CloudWatch Logs during the build phase so that users may keep an eye on them.

16. Why is AWS DevOps such a big deal these days?

- Everything from banking to entertainment has gone cloud-based due to the daily emergence of new businesses and the growth of the Internet.
- The majority of businesses employ fully cloud-

hosted systems that are accessible from multiple devices.

- This involves a whole slew of online procedures, including automation, operations, communication, and logistics.
- To help developers transform how they can build and deliver new software as quickly and efficiently as possible, AWS DevOps is essential.

17. How does AWS DevOps use microservices?

- A single application built as a collection of services is called a microservice architecture.
- Each of these services communicates with the others using a simple, lightweight, structured interface.
- Every one of these services follows a different set of procedures. In this communication, HTTP and API queries are mostly employed.

18. What distinguishes CloudFormation from AWS Elastic Beanstalk?

Among the crucial services offered by AWS are CloudFormation and EBS.

- They are made to be easily able to cooperate.
- Applications can be deployed in the cloud using the environment that EBS offers.
- To assist in managing the lifespan of the apps, this is coupled with CloudFormation tools.
- With this, using a range of AWS resources becomes incredibly convenient.

Because of this, it may be used for a wide range of applications, including container-based solutions and traditional systems, with great scalability guaranteed.

19. In what ways is version control advantageous?

The following list illustrates the many advantages of version control:

- File comparison, difference detection, and merging, in the event of modifications, are made simple with version control.
- The life cycle of an application build, encompassing all of its stages—development, production, testing, etc.—can be easily tracked thanks to this.
- This creates a positive work environment by fostering collaboration.
- All code versions and variations are kept safe and secure thanks to version control.

20. Write about the features of the AWS Control Tower.

AWS Control Tower is an AWS service that uses pre-packaged and customized best practices to assist in setting up and managing a multi-account AWS environment that is safe and secure.

- This solution provides a single site for account setup, management, and monitoring.
- Users of AWS Control Tower can automate the process of creating a safe and legal landing zone.
- Users can also personalize and enforce policies throughout their AWS environment using AWS Control Tower.
- To guarantee that the user's AWS environment is safe and compliant, this service offers ongoing monitoring and reporting.
- They provide unified governance for managing compliance throughout the user's AWS environment, making it possible to control compliance, policies, and access from a single console.

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Conclusion

With the help of these **top 20 AWS DevOps interview questions and answers**, any aspirant can ace the tech interviews of top companies. Join

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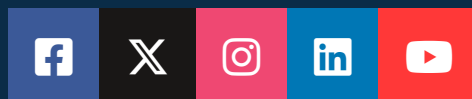
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