1. **What is Devops?**

Devops combine development and operations to increase the efficiency, speed and security of software development and delivery. It aims to shorten the system development life cycle and provide continuous delivery with high level software quality.

1. **What is AWS EC2?**

Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) Cloud. It eliminates your need to invest in hardware up front, so you can develop and deploy applications faster.

1. **What is AWS S3?**

Amazon Simple Storage Service (Amazon S3) is an object storage service that provides data availability, security, and performance. It is used to store and retrieve any amount of data at any time, from anywhere.

1. **What is AWS cloud9?**

AWS Cloud9 is a cloud-based integrated development environment (IDE that lets you to write, run, and debug code from any machine with just a browser. It’s features are Continuous Delivery Toolchain, Built-in Terminal, Integrated Debugger, Built-in Image Editor etc.

1. **What is DynamoDB?**

### Amazon DynamoDB is a fully managed NoSQL database designed to run high performance applications. It is used to Develop software applications, Create media metadata stores, Scale gaming platforms.

### What is NoSQL database?

### NoSQL is modelled in means other than the tabular relations used in relational databases. It is a database that provides a mechanism for storage and retrieval of data. It used for storing and modelling structured, semi-structured, and unstructured data in one database.

### What is AWS lambda?

### **AWS Lambda** is an event-driven, serverless computing platform that lets you run code without provisioning or managing servers. It is used to Build data-processing triggers for AWS services such as Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB.

### What is serverless computing?

### Serverless computing is a cloud architecture that allows organizations to get on-demand access to the resources they need. Customers only pay for the resources they use. Resources are not allocated to an application when it is not in use.

### What languages does AWS Lambda support?

### C#

### Go

### Java

### Node.js

### PowerShell

### Python

### Ruby

### What is IAM in aws?

AWS Identity and Access Management (IAM) is a web service that helps you securely control access to AWS resources. You use IAM to control who is authenticated (signed in) and authorized (has permissions) to use resources.

1. **What is containerization?**

Container is an executable package of software that includes everything needed to run an application. Containerization is the process of packaging your application together with its dependencies into one container.

1. **Why are containers lightweight?**

Containers share the machine’s OS system kernel and therefore do not require an OS per application, driving higher server efficiencies and reducing server and licensing costs. This makes them more lightweight and portable, with significantly less overhead.

1. **What is hub.docker.com?**

Docker Hub is a repository and cloud-based service where people push their Docker Container Images and also pull the Docker Container Images from the Docker Hub anytime or anywhere via the internet.

1. **Uses of docker hub?**

Using docker hub, A user can access public, open source image repositories, as well as use a space to create their own private repositories, build functions, webhooks and work groups.

1. **What is Nagios?**

Nagios is a powerful monitoring system that is used to monitor the It infrastructure problems before they effect the critical business processes.

1. **What is Elastic Beanstalk?**

Elastic Beanstalk is a service for deploying and scaling web applications and services. Upload your code and Elastic Beanstalk automatically handles the deployment.

1. **What is Kubernetes?**

Kubernetes automates operational tasks of container management and includes built-in commands for deploying applications, making changes to your applications, scaling your applications to fit changing needs, monitoring your applications, and more—making it easier to manage applications.

1. **How kubernetes is related to docker?**

It allows you to run your Docker containers and workloads and help you to tackle some of the operating complexities when moving to scale multiple containers, deployed across multiple servers.

1. **What is terraform?**

Terraform is an IAC tool, used primarily by DevOps teams to automate various infrastructure tasks. It allows us to provision the physical resources an application requires to run.

1. **What is IAC?**

Infrastructure as code is the managing and provisioning od infrastructure through code instead of the manual process. Infrastructure as code (IaC) means to manage your IT infrastructure using configuration files.

1. **What is Sonarqube?**

SonarQube is a Code Quality Assurance tool that collects and analyzes source code, and provides reports for the code quality of your project. It combines static and dynamic analysis tools and enables quality to be measured continually over time.

1. **Benefits of Sonarqube?**

It increases the productivity

It increases the quality of the code.

It detects the errors in the code and alerts the developers to fix them.

It enhances the developer skills.

**DevOps definition**

DevOps is a fusion of terms–software development and information technology operations. DevOps is the union of people, process, and technology to continually provide value to customers.

**What is AWS EC2? Why EC2.**

Amazon Elastic Compute Cloud (EC2) is a part of Amazon.com's cloud-computing platform, Amazon Web Services, that allows users to rent virtual computers on which to run their own computer applications.

* Virtual computing environments, known as instances, saves hardware cost
* Preconfigured templates for your instances, known as Amazon Machine Images (AMIs)
* Secure login information
* Storage volumes for temporary data