Interview Questions on Cloudwatch

----

1. What is AWS CloudWatch?

Answer: AWS CloudWatch is a monitoring and observability service provided by Amazon Web Services for monitoring AWS resources and applications.

----

2. What types of data can CloudWatch monitor?

Answer: CloudWatch can monitor various types of data, including metrics, logs, events, and alarms.

----

3. What are CloudWatch metrics?

Answer: CloudWatch metrics are data points that represent the behavior of AWS resources and services over time.

----

4. How do you collect custom metrics in CloudWatch?

Answer: Custom metrics can be collected in CloudWatch using the CloudWatch SDK or CLI.

----

5. What is a CloudWatch alarm?

Answer: A CloudWatch alarm is a mechanism that triggers actions based on predefined conditions on CloudWatch metrics.

----

6. How do you create a CloudWatch alarm?

Answer: You can create a CloudWatch alarm using the AWS Management Console, CLI, or SDK by specifying the metric, threshold, and actions to trigger.

----

7. What is CloudWatch Logs?

Answer: CloudWatch Logs is a service that allows you to collect, monitor, and analyze log data from AWS resources and applications.

----

8. How do you stream logs to CloudWatch Logs?

Answer: Logs can be streamed to CloudWatch Logs using the CloudWatch agent, AWS SDK, or CLI.

----

9. What is CloudWatch Events?

Answer: CloudWatch Events is a service that delivers a near real-time stream of system events that describe changes in AWS resources.

----

10. How do you create a CloudWatch Events rule?

Answer: You can create a CloudWatch Events rule to match events based on predefined patterns and trigger actions using targets.

----

11. What is the retention period for CloudWatch Logs?

Answer: By default, CloudWatch Logs retains log data indefinitely, but you can configure retention periods to archive or delete logs after a specific duration.

----

12. What is CloudWatch Container Insights?

Answer: CloudWatch Container Insights is a feature that provides monitoring and observability for containerized applications running on Amazon ECS and EKS.

----

13. What is CloudWatch Contributor Insights?

Answer: CloudWatch Contributor Insights is a feature that provides analysis and visualization of high-cardinality data to identify the top contributors to changes in system behavior.

----

14. What is CloudWatch Synthetics?

Answer: CloudWatch Synthetics is a feature that allows you to create canaries to monitor the availability and performance of your web applications and APIs.

----

15. What is CloudWatch Dashboard?

Answer: CloudWatch Dashboard is a customizable dashboard that allows you to create visualizations and metrics widgets to monitor your AWS resources and applications.

----

16. What is CloudWatch Logs Insights?

Answer: CloudWatch Logs Insights is a feature that allows you to interactively search and analyze log data stored in CloudWatch Logs using query language commands.

----

17. What is CloudWatch Anomaly Detection?

Answer: CloudWatch Anomaly Detection is a feature that automatically detects abnormal behavior in metric data and generates alarms when anomalies are detected.

----

18. What is CloudWatch ServiceLens?

Answer: CloudWatch ServiceLens is a feature that provides a unified view of your application's health and performance by visualizing dependencies between AWS resources and services.

----

19. What is CloudWatch Metric Math?

Answer: CloudWatch Metric Math is a feature that allows you to perform mathematical operations on multiple metrics to derive new metrics for analysis and visualization.

----

20. What is CloudWatch Logs Insights query language?

Answer: CloudWatch Logs Insights query language is a powerful query language that allows you to search, filter, and analyze log data using expressions and functions

==
====================================

Interview Questions on route53

----

1. What is Route 53?

Answer: Route 53 is Amazon Web Services' scalable and highly available Domain Name System (DNS) web service.

----

2. What are the main functions of Route 53?

Answer: Route 53 primarily handles domain registration, DNS routing, and health checking for AWS resources.

----

3. How does Route 53 help in domain registration?

Answer: Route 53 allows you to register domain names with popular top-level domains (TLDs) such as .com, .net, and .org.

----

4. What is a hosted zone in Route 53?

Answer: A hosted zone is a container for DNS records that defines how traffic is routed for a domain and its subdomains in Route 53.

----

5. What are DNS record sets in Route 53?

Answer: DNS record sets in Route 53 are collections of DNS records that specify the mapping between domain names and IP addresses or other resources.

----

6. How does Route 53 route traffic to AWS resources?

Answer: Route 53 routes traffic to AWS resources by resolving domain names to IP addresses using DNS resolution.

----

7. What is a routing policy in Route 53?

Answer: A routing policy in Route 53 defines how traffic is routed to different endpoints based on routing rules configured by the user.

----

8. How does latency-based routing work in Route 53?

Answer: Latency-based routing in Route 53 routes traffic to the endpoint with the lowest network latency from the user's location.

----

9. What is a health check in Route 53?

Answer: A health check in Route 53 monitors the health and availability of endpoints and automatically adjusts DNS routing based on health check results.

----

10. What are the benefits of using Route 53?

Answer: Route 53 offers benefits such as high availability, scalability, flexibility in routing policies, and seamless integration with other AWS services

==
=====================================

Interview Questions on Autoscallig

----

1. What is Auto Scaling?

Answer: Auto Scaling is an AWS service that automatically adjusts the number of resources in response to changes in demand.

----

2. What types of resources can Auto Scaling manage?

Answer: Auto Scaling can manage resources such as Amazon EC2 instances, ECS tasks, DynamoDB tables, and RDS instances.

----

3. How does Auto Scaling determine when to scale resources?

Answer: Auto Scaling uses CloudWatch alarms to monitor metrics and triggers scaling actions based on predefined thresholds.

----

4. What is a scaling group in Auto Scaling?

Answer: A scaling group is a logical grouping of resources with shared scaling policies and configuration settings.

----

5. What is a launch configuration in Auto Scaling?

Answer: A launch configuration defines the configuration settings for instances launched by the scaling group.

----

6. What is a scaling policy in Auto Scaling?

Answer: A scaling policy defines the scaling actions to be taken in response to CloudWatch alarms.

----

7. How do you create a scaling group in Auto Scaling?

Answer: You can create a scaling group by specifying the resource type, desired capacity, and scaling policies.

----

8. What is the benefit of using Auto Scaling?

Answer: Auto Scaling helps ensure application availability, optimize costs, and maintain performance during varying workloads.

----

9. How do you enable Auto Scaling for an EC2 instance?

Answer: You can enable Auto Scaling for an EC2 instance by associating it with a scaling group.

----

10. How do you monitor Auto Scaling activity?

Answer: You can monitor Auto Scaling activity through the AWS Management Console, CLI, or CloudWatch metrics.

===

==