

💡 AWS CloudWatch

Amazon [#cloudwatch](#) is a monitoring and observability service for AWS cloud resources and the [#applications](#) we run on AWS. It is composed of services like - collect and track metrics, collect and monitor log files, set [#alarms](#), and [#trigger](#) changes in resources or applications.

▶ *How it works:*

- ✦ **Collect** - CloudWatch collects [#metrics](#) and logs from all your AWS services (for example, AWS [#ec2](#) instances, RDS instances, [#ELBs](#) etc). CloudWatch retrieves these metrics from the [#repository](#).
- ✦ **Monitor** - Visually [#analyze](#) all collected metrics and [#logs](#) to perform health check of resources.
- ✦ **Act** - Executes any new changes in the [#resources](#) using alarms to take the corrective actions immediately.
- ✦ **Analyze** - Analyze and [#visualize](#) collected metric and log data as it can store the logs and metrics [#data](#) up to 15 months.
- ✦ **Compliance and [#security](#)** - As it is integrated with AWS [#iam](#) permissions and [#authentication](#) can be controlled.

🔑 *Use Cases*

- Infrastructure monitoring
- Security monitoring
- Test website impacts
- Performance monitoring