**Category:**

Management and Governance

Amazon CloudWatch

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**What?**
- Amazon CloudWatch allows you to collect, access, and correlate metrics, logs, and events data on a single platform from across all your AWS resources, applications, and services running on AWS and on-premises.

**Why?**
- Amazon CloudWatch helps you to detect anomalous behavior in your environments, set alarms, visualize logs and metrics side by side, take automated actions, troubleshoot issues, and discover insights to keep your applications running smoothly.
- It also helps to break down data silos to better understand the health and performance of your resources.

**When?**
- You want to use a single platform for observability and to collect metrics of AWS and on premises resources.
- You also want to improve operational performance and resource optimization, get operational visibility and insight to derive actionable insights from logs.

**Where?**
- Amazon CloudWatch is a regional service but you can create cross-account, cross-region dashboards too.
- Through an agent deployed on on-premises system you can also collect metric.

**Who?**
- It natively integrates with more than 70 AWS services.
- You can create alarms based on metric value thresholds, or use alarms that can watch for anomalous metric behaviour.
- You can install a unified CloudWatch agent to collect logs and metrics.

**How?**
- CloudWatch is basically a metrics repository. It correlates your metrics and logs to better understand the health and performance of your resources.
- Create alarms based on metric value thresholds, or alarms for anomalous metric behavior based on ML algorithms.

**How much?**
- Charges are calculated for number of Metrics (includes detailed and custom metrics), APIs, Logs Ingested, Log Storage/Archival, Logs Insights Queries (analyse Log Data), Events, dashboards, alarms, Contributor Insights, Lambda Insights and Canaries.