



AWS CloudWatch



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What is CloudWatch?

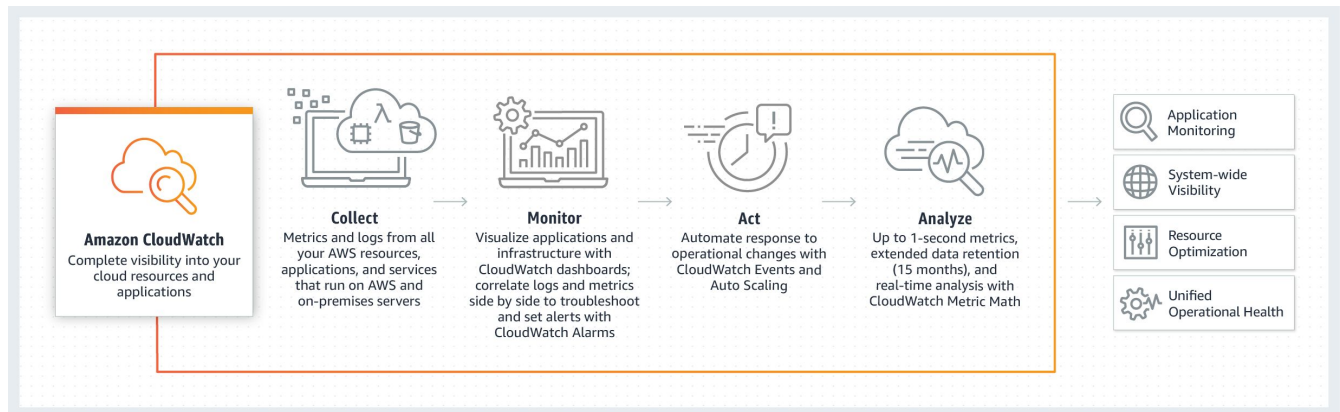


Amazon CloudWatch

- CloudWatch is the **monitoring service** of AWS.
- It enables you to monitor **metrics of resources and applications** that run **on AWS** as well as **on-premise servers**.

CloudWatch

What is CloudWatch?



- You can get logs, set alarms, trigger events and analyze utilization by CloudWatch.

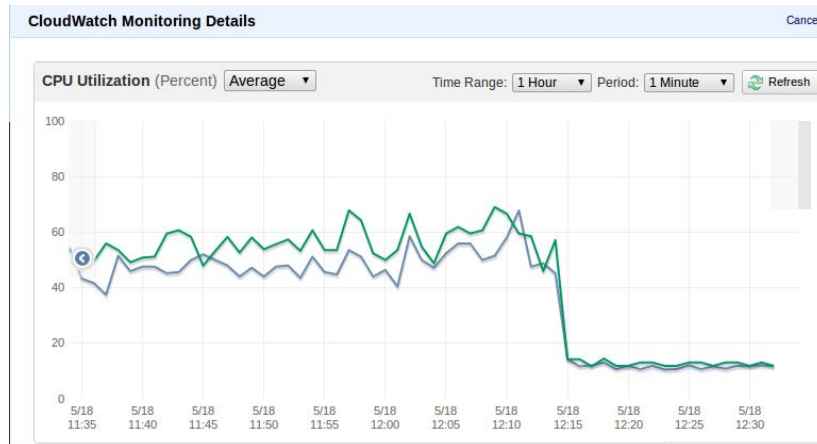


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CloudWatch Basic Components

CloudWatch

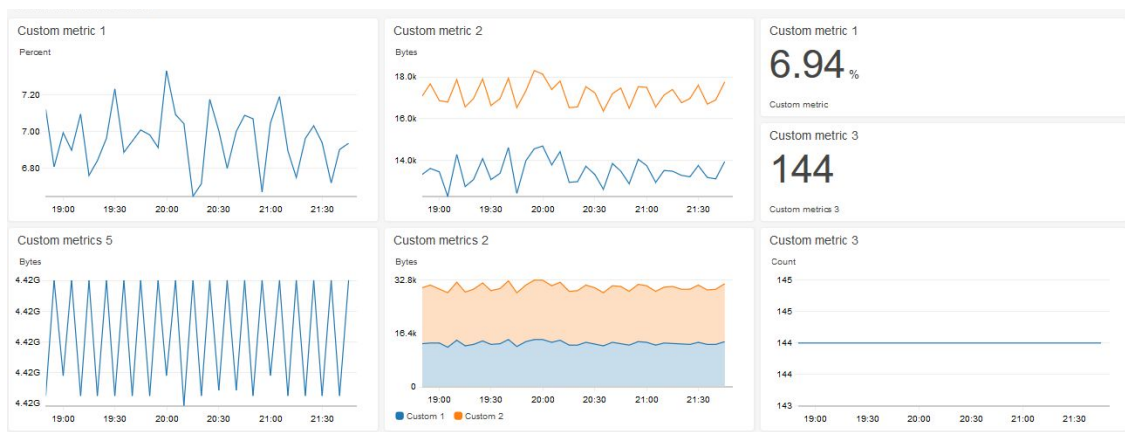
Basic Components



- **Metrics:** Metrics are the **measurable data** about your resources, apps or services like EC2 instance CPU utilization or the number of objects in an S3 bucket.

CloudWatch

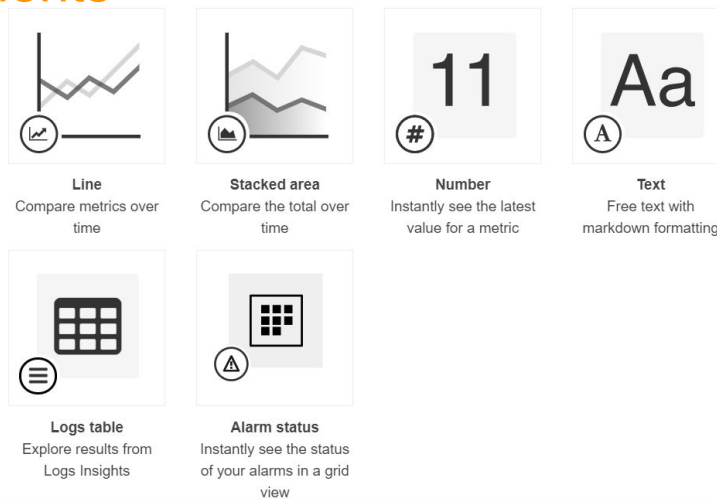
Basic Components



- **Dashboards:** Dashboards enable you to create graphs and visualize your cloud resources and applications according to your needs.

CloudWatch

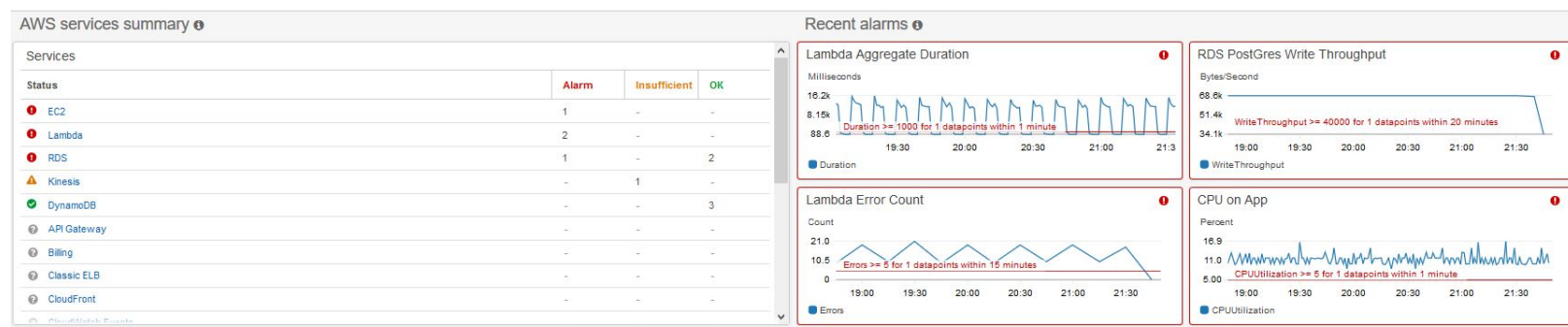
Basic Components



- **Widgets**: You can leverage dashboards as customizable home pages in the CloudWatch console to view metrics, logs and alarms.

CloudWatch

Basic Components



- **Alarms**: Alarms enables you to monitor CloudWatch metrics and to receive notifications if the metrics fall outside of the thresholds (higher or lower) that you set.
- You can make Alarms trigger a Resource Actions

CloudWatch

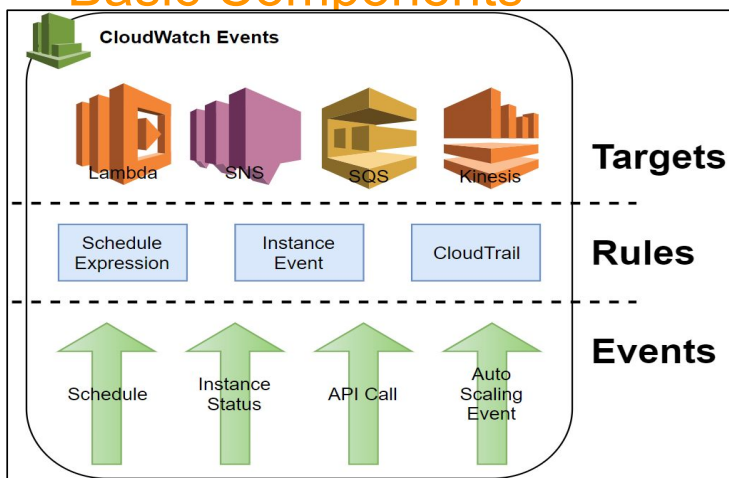
Basic Components

Time (UTC +00:00)	Message
2019-04-30	
11:55:52	182.73.116.202 - - [30/Apr/2019:11:55:47 +0000] "GET / HTTP/1.1" 200 11173 "-" "Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, ..."
16:17:47	45.168.138.131 - - [30/Apr/2019:16:17:42 +0000] "GET / HTTP/1.1" 200 11173 "-" "Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, ..."
17:02:10	61.219.11.153 - - [30/Apr/2019:17:02:05 +0000] "-" 408 0 "-" "-"
17:08:12	185.209.0.12 - - [30/Apr/2019:17:08:07 +0000] "x03" 400 0 "-" "-"
18:05:53	180.251.54.70 - - [30/Apr/2019:18:05:48 +0000] "GET / HTTP/1.1" 200 11229 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/601.7.7 ..."
19:43:12	109.94.121.118 - - [30/Apr/2019:19:43:07 +0000] "GET / HTTP/1.1" 200 11173 "-" "Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, ..."
19:45:45	183.178.64.143 - - [30/Apr/2019:19:45:44 +0000] "GET /mysql/admin/index.php?lang=en HTTP/1.1" 404 458 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; ..."
19:45:45	183.178.64.143 - - [30/Apr/2019:19:45:44 +0000] "GET /mysql/dbadmin/index.php?lang=en HTTP/1.1" 404 460 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; ..."
19:45:46	183.178.64.143 - - [30/Apr/2019:19:45:45 +0000] "GET /mysql/sqlmanager/index.php?lang=en HTTP/1.1" 404 463 "-" "Mozilla/5.0 (Windows NT 10.0; Wi ..."
19:45:47	183.178.64.143 - - [30/Apr/2019:19:45:46 +0000] "GET /mysql/mysqlmanager/index.php?lang=en HTTP/1.1" 404 465 "-" "Mozilla/5.0 (Windows NT 10.0; ..."
19:45:47	183.178.64.143 - - [30/Apr/2019:19:45:46 +0000] "GET /phpmyadmin/index.php?lang=en HTTP/1.1" 404 457 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; ..."
19:45:48	183.178.64.143 - - [30/Apr/2019:19:45:47 +0000] "GET /phpMyadmin/index.php?lang=en HTTP/1.1" 404 457 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; ..."

- **Logs:** Logs let you monitor, store, and access your log files from AWS or other resources. It also allows you to centralize these logs for querying and analyzing.

CloudWatch

Basic Components



Amazon EventBridge

- **Events:** An event indicates changes in your AWS environment. You can create rules that self-trigger on an automated schedule.
- Now it can be used in new service named “Amazon EventBridge” also.



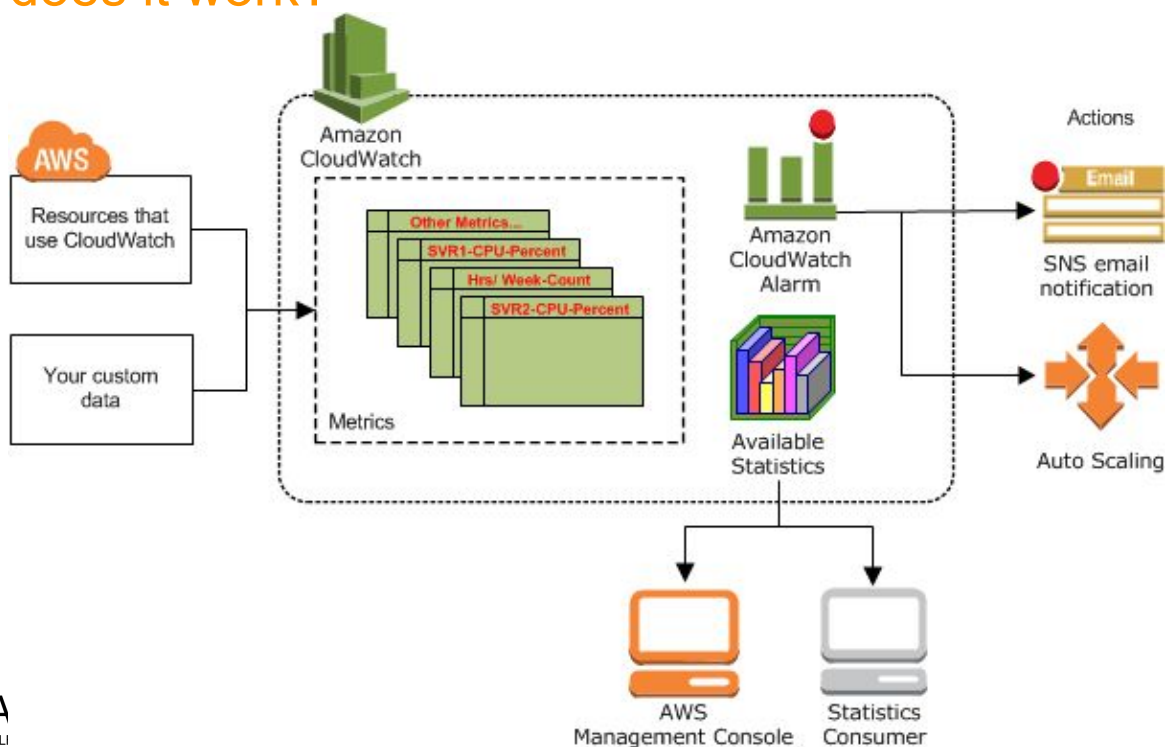
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How does CloudWatch work?

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CloudWatch

How does it work?



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CloudWatch Pricing

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CloudWatch Pricing



- No **up-front commitment** or **minimum fee**
- Pay for what you use
- Pricing varies by region
- Enables limited **Free Tier** usage

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Free Tier:

Metrics	Basic Monitoring Metrics (at 5-minute frequency)
	10 Detailed Monitoring Metrics (at 1-minute frequency)
	1 Million API requests (not applicable to GetMetricData and GetMetricWidgetImage)
Dashboard	3 Dashboards for up to 50 metrics per month
Alarms	10 Alarm metrics (not applicable to high-resolution alarms)
Logs	5GB Data (ingestion, archive storage, and data scanned by Logs Insights queries)
Events	All events except custom events are included
Contributor Insights	1 Contributor Insights rule per month
	The first one million log events that match the rule per month
Synthetics	100 canary runs per month

THANKS!

Any questions?

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