

CloudWatch & Cloud Trail

2019年2月10日 星期日 上午4:01

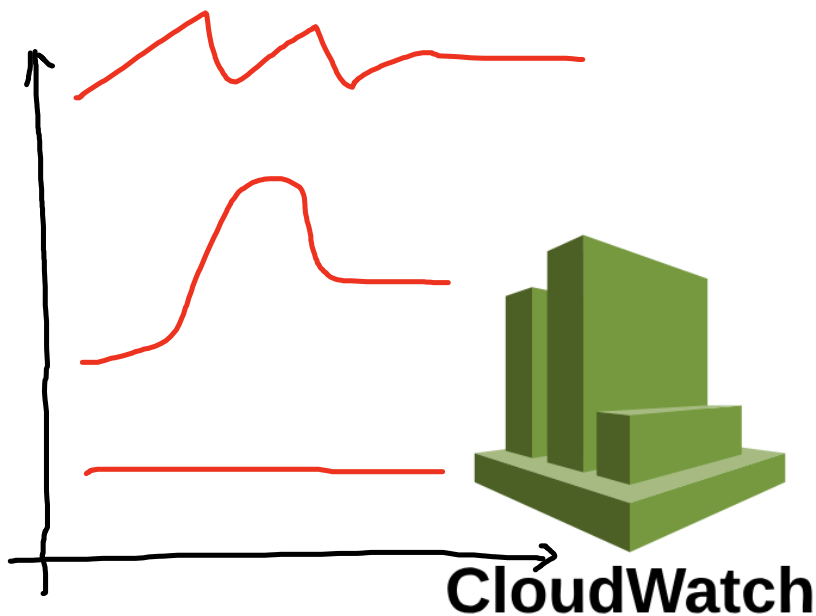
What is a CloudWatch?

Simplified Definition:

CloudWatch is a service that allows you to **monitor** various elements of your AWS account.

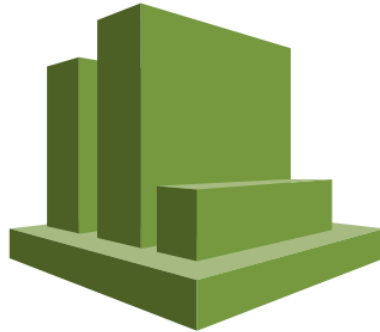
AWS Definition:

"Amazon CloudWatch monitors your Amazon Web Services (AWS) resources and the applications you run on AWS in real time. You can use CloudWatch to collect and track metrics, which are variables you can measure for your resources and applications. CloudWatch **alarms send notifications or automatically make changes** to the resources you are monitoring based on rules that you define."

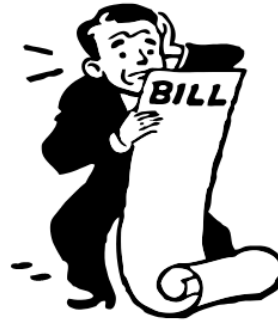
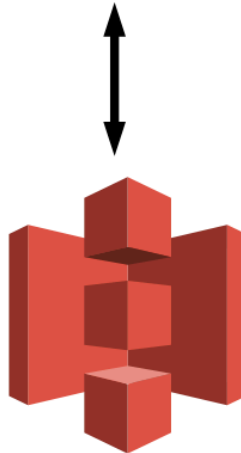
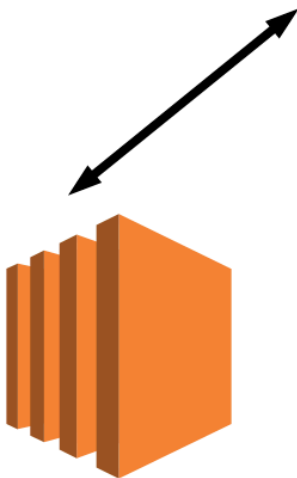


CloudWatch Basics (monitoring):

Use the ***Dashboard*** to view metrics that you select.



CloudWatch



EC2

- CPU Utilization
- Status Checks
- Disk Read/Writes

S3

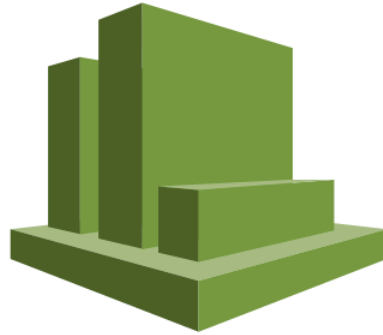
- Number of Objects
- Bucket Size

Billing

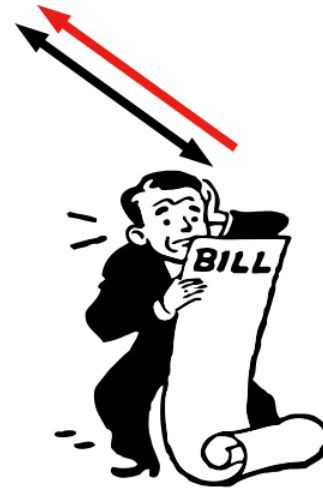
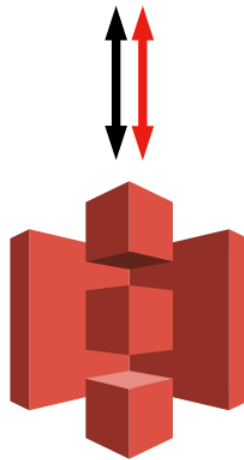
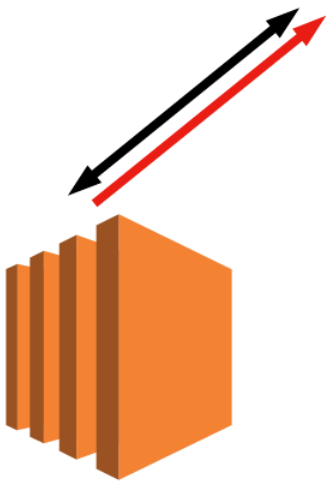
What about my monthly bill?

CloudWatch Basics (alarms):

You can view the alarms in CloudWatch OR have the alarm trigger an action (like an SNS message)



CloudWatch



EC2

Threshold set:
CPU Utilization > 80%

S3

Threshold set:
Number of object in a bucket > 100

Billing

Threshold set:
Current monthly billing > \$500

CloudWatch Benefits:

CloudWatch:

- (1) Monitor metrics for almost all your AWS resources (i.e. EC2 instances)
- (2) Create and monitor custom metrics
- (3) Create custom dashboards for easy viewing of metrics
- (4) Monitor and store logs

(5) Set alarms and events (and trigger actions based on them)

If CloudWatch is used to monitor AWS resources, what service allows us to monitor what AWS IAM users are doing in the company's AWS account?

What is a CloudTrail?

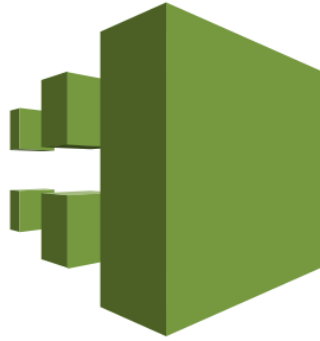
Simplified Definition:

CloudTrail allows you to monitor all actions taken by IAM users (i.e. services accessed and actions taken - such as logging who deleted an S3 object).

AWS Definition:

"AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS infrastructure. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs,

command line tools, and other AWS services. This event history simplifies security analysis, resource change tracking, and troubleshooting."



CloudTrail