BATCH : BATCH 107

LESSON : AWS

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SUBJECT : AWS Cloudwatch

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Amazon CloudWatch

AWS Cloudwatch

What is CloudWatch ?

> Amazon CloudWatch is a monitoring service to monitor your AWS resources, as well as the applications that you run on AWS.

What can CloudWatch do?

CloudWatch can monitor things like:

Compute
- ✓ Autoscaling Groups
- ✓ Elastic Load Balancers
- ✓ Route53 Health Checks
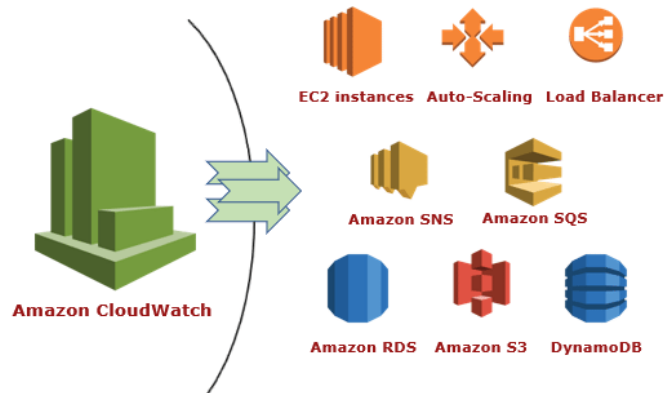
Storage & Content Delivery
- ✓ EBS Volumes
- ✓ Storage Gateways
- ✓ CloudFront

Databases & Analytics
- ✓ DynamoDB
- ✓ Elasticache Nodes
- ✓ RDS Instances
- ✓ Elastic MapReduce Job Flows
- ✓ Redshift

Other
- ✓ SNS Topics
- ✓ SQS Queues
- ✓ Opsworks
- ✓ CloudWatch Logs
- ✓ Estimated Charges on your AWS Bill

CloudWatch and EC2

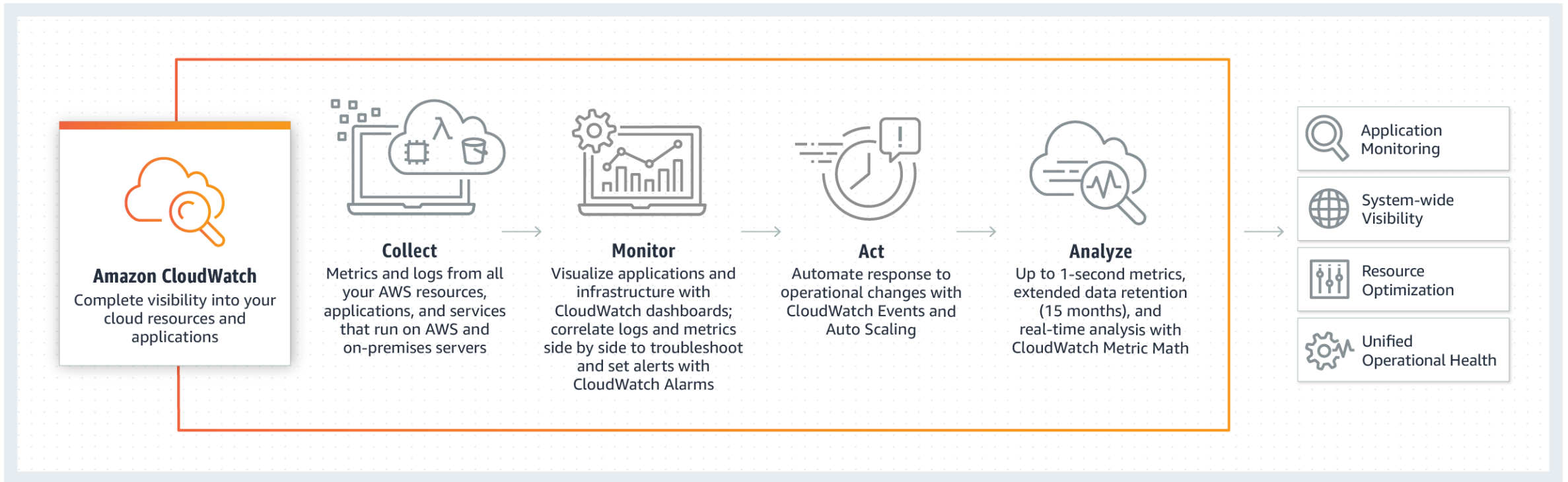Host Level Metrics Consist of:
- ✓ CPU
- ✓ Network
- ✓ Disk
- ✓ Status Check

Note: RAM Utilization is a custom metric! By default EC2 monitoring is 5 minute intervals, unless you enable detailed monitoring which will then make it 1 minute intervals.
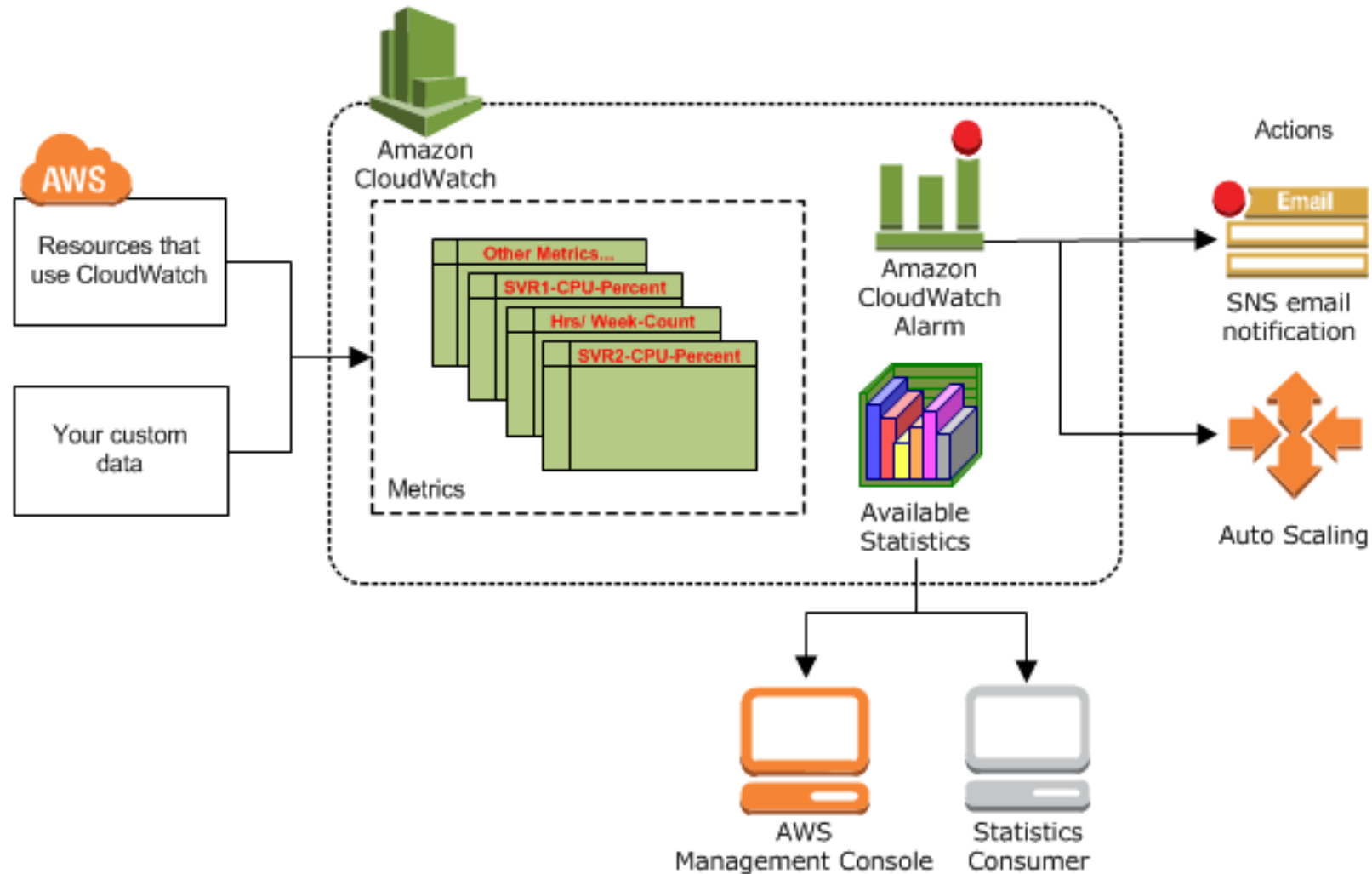
How Amazon CloudWatch works

Amazon CloudWatch
Complete visibility into your cloud resources and applications

Collect
Metrics and logs from all your AWS resources, applications, and services that run on AWS and on-premises servers

Monitor
Visualize applications and infrastructure with CloudWatch dashboards; correlate logs and metrics side by side to troubleshoot and set alerts with CloudWatch Alarms

Act
Automate response to operational changes with CloudWatch Events and Auto Scaling

Analyze
Up to 1-second metrics, extended data retention (15 months), and real-time analysis with CloudWatch Metric Math

Application Monitoring

System-wide Visibility

Resource Optimization

Unified Operational Health

How Amazon CloudWatch works

CloudWatch Alarms

➤ You can create an alarm to monitor any Amazon CloudWatch metric in your account. This can include EC2 CPU Utilazition, Elastic Load Balancer Latency or even the charges on your AWS bill. You can set the appropriate thresholds in which to trigger the alarms and also set What actions should be taken if an alarm state is reached.

Hesabınızdaki herhangi bir Amazon CloudWatch ölçümünü izlemek için bir alarm oluşturabilirsiniz. Buna EC2 CPU Kullanımı, ELB (Elastic Load Balancer) gecikmesi ve hatta AWS faturanızdaki ücretler dahil olabilir. Alarmların tetikleneceği uygun eşikleri ayarlayabilir ve ayrıca bir alarm durumuna ulaşıldığında hangi eylemlerin gerçekleştirilmesi gerektiğini ayarlayabilirsiniz.

Pricing

Free tier

You can get started with Amazon CloudWatch for free. Most AWS Services (EC2, S3, Kinesis, etc.) send metrics automatically for free to CloudWatch. Many applications should be able to operate within these free tier limits. You can learn more about AWS Free Tier here.

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
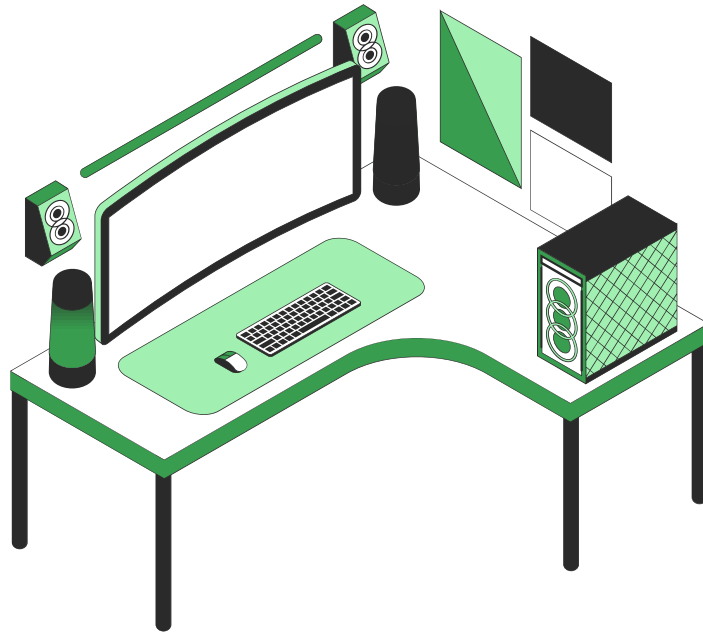
Do you have any questions?

Send it to us! We hope you learned something new.