**CloudWatch**

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CloudWatch is an AWS service for monitoring and managing infrastructure
systems or application performance.
The resources can be on AWS,
on-premises or a combination of both.
The application performance data
and the infrastructure monitoring information can be simultaneously
displayed on the same dashboard, as either logs or metrics. CloudWatch
does everything from collecting the metrics and logs to monitoring,
alerting and analyzing.
CloudWatch has both the Alarms and Events
functions, which notifies you in the case where specific conditions are
realized.
CloudWatch charges on a pay-per-metric basis, where the cost
for processing large amounts of metrics can grow substantially higher
than competing monitoring solutions.

For large amounts of metrics, Cloud Watch grows to be substantially more expensive than competitors.

Amazon CloudWatch can be classified as a tool in the "Cloud Monitoring" category,

Amazon CloudWatch is
basically a metrics repository. An AWS service—such as Amazon EC2—puts
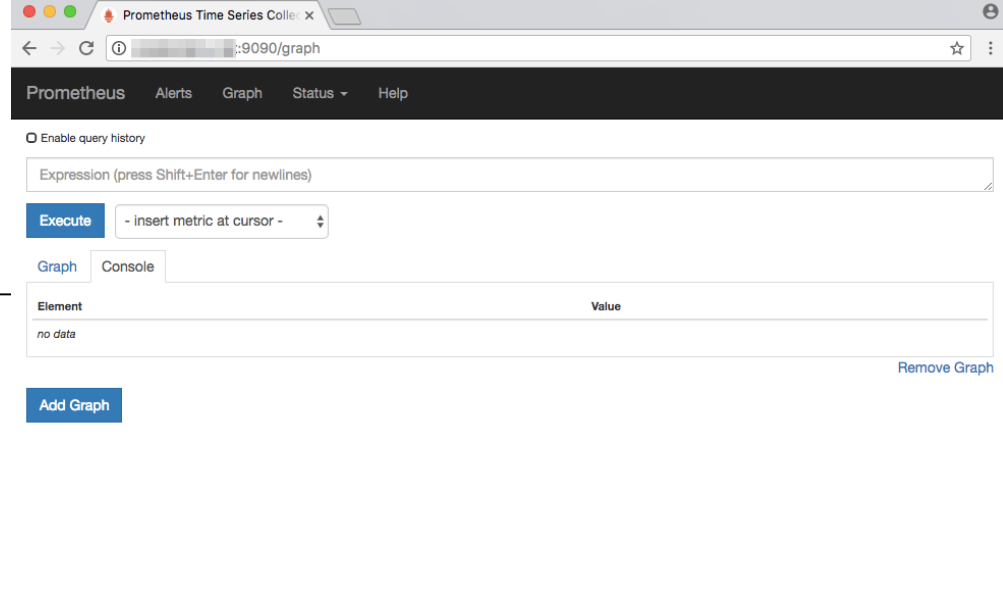metrics into the repository, and you retrieve statistics based on those
metrics.

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# Points

**eate alerts/ alarms**
**on thru Emails or**
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**Prometheus**

Prometheus is an open-source monitoring system built around a time
series database, able to receive data and store it, in addition to
supporting queries, graphs, and in-built alerting.
Connecting to target endpoints to request metrics via HTTP,
Prometheus provides a multi-dimensional data model wherein
metrics can be defined by names
and/or tags which identify them as part of a unique time series.
Open-source Prometheus metrics have a default retention of 15
days,
though with Hosted Prometheus by MetricFire data can be stored
for up to
2 years.
The Prometheus query language (PromQL) can then be used to
explore metrics and draw simple graphs.
Prometheus is open source, and free.
Prometheus is grouped under "Monitoring Tools"
Prometheus gets data from API Server.