CloudWatch Container Insights

Monitoring Prometheus Metrics

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Microservice diagnostic needs

Understand distributed architecture

Bird's eye view of the application to locate the source of the problem

Zoom into individual components

Drill down into specific components or workloads to learn more

Derive insights from data collected

Connect the dots across metrics and logs collected.
CloudWatch Container Insights

Collect, aggregate, and summarize metrics and logs from your containerized applications and microservices.
Prometheus

A popular open source monitoring tool that graduated as a Cloud Native Compute Foundation (CNCF) project, with a large and active community of practitioners.

Monitor workloads:

..... and many more.
Monitor Workload metrics on Container Insights
What’s new?

Automatically collects, filters, and creates aggregated CloudWatch metrics from your workloads.

Preselected services are scraped and automatically enriched with metadata such as cluster and pod names.

Supports scraping of 150+ open source third party exporters compatible with OpenMetrics.

Supports custom metrics scraping on services to ingest as CloudWatch Metrics.
How does it work?

Run the CloudWatch Agent in the Kubernetes cluster.

Custom metrics available for a curated set of dimensions that is fully configurable.

Analyze the high-fidelity Prometheus metrics.
[Example] Out of the Box metrics from NGINX:
Demo
Microservice diagnostic needs

Understand distributed architecture
Resource view with Map and list to organize containerized resources

Zoom into individual components
Narrow down to specific Namespace, Service, or pod with issues

Derive insights from data collected
Connect the dots across metrics and logs collected.
Learn more about Container Insights:

Container Insights:  
https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/ContainerInsights.html

Prometheus Metrics support:  
https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/ContainerInsights-Prometheus.html

Thank You.
Learn more about Container Insights:
Split content

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Quotes

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Bar chart
Pie chart
Line chart
Q&A

Name of presenter
Example Slides

Charts, Photos/Images, Customer logos
Pie chart

Chart Title

Series 1
Series 2
Series 3

Chart Title

Series 1
Series 2
Series 3

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