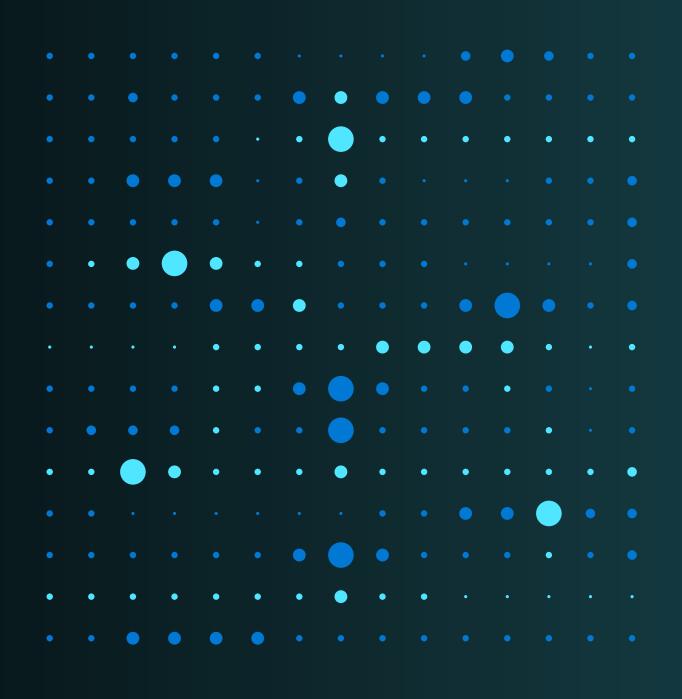


Introduction to Azure Monitor and Log Analytics

John Deardurff



What does this session cover?

What is Azure Monitor?

Azure Monitor Metrics

Azure Monitor Alerts

Azure Monitor Logs

Demonstration



Azure Monitor Metrics and Alerts



Azure Monitor



Detection, triage, and diagnosis

Visualize, analyze, and respond to monitoring data and events. Learn more about monitoring &



Create charts to monitor and investigate the usage and performance of your Azure resources.





Alerts

Get notified and respond using alerts and actions.





Analyze and diagnose issues with log queries.

View ··· More



Workbooks

View, create and share interactive reports.





Diagnostic Settings

Route monitoring metrics and logs to selected locations.

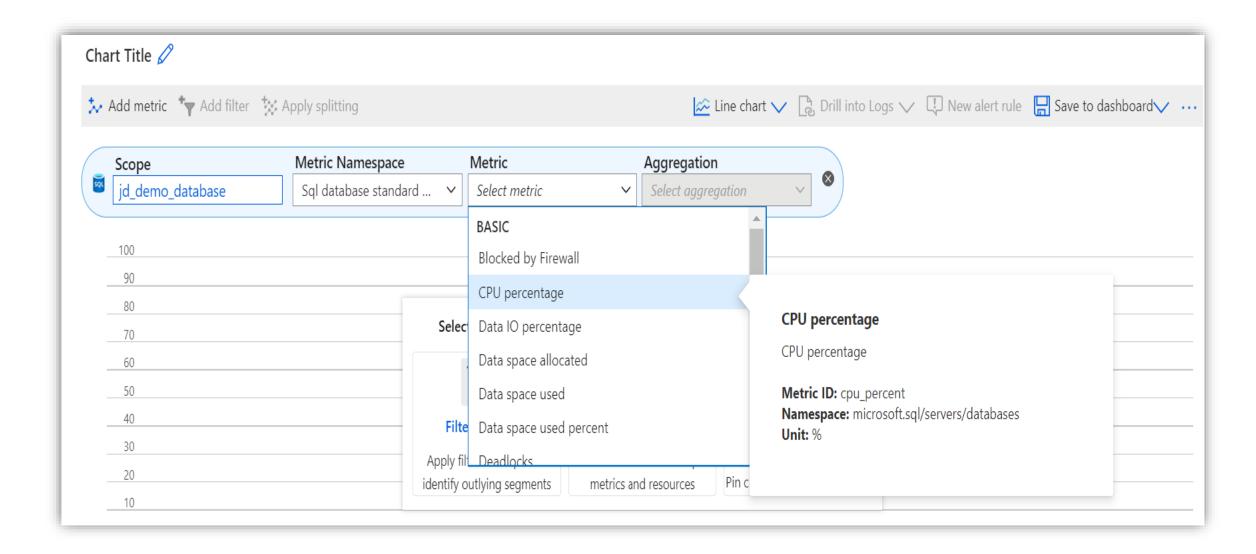
View · · · · More

Azure Monitor Metrics

Azure Monitor Metrics stores numeric data in a time-series database, which makes this data more lightweight than Azure Monitor Logs and capable of supporting near real-time scenarios making them particularly useful for alerting and fast detection of issues

- Low-Latency
- Retention 90 days
- Cost Free

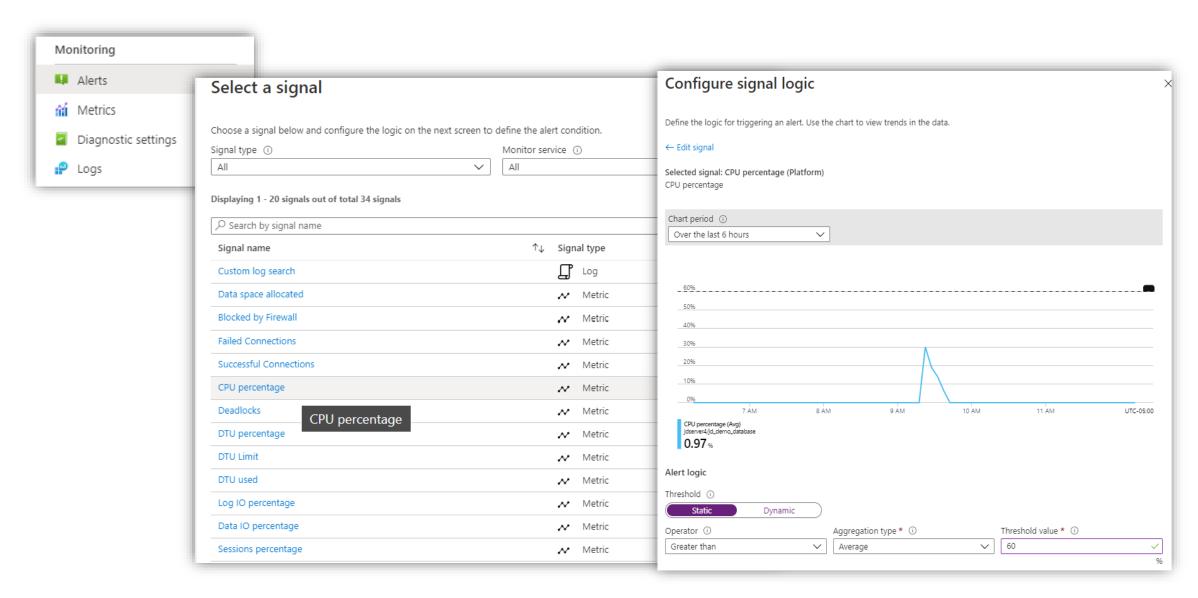
Azure Monitor Metrics



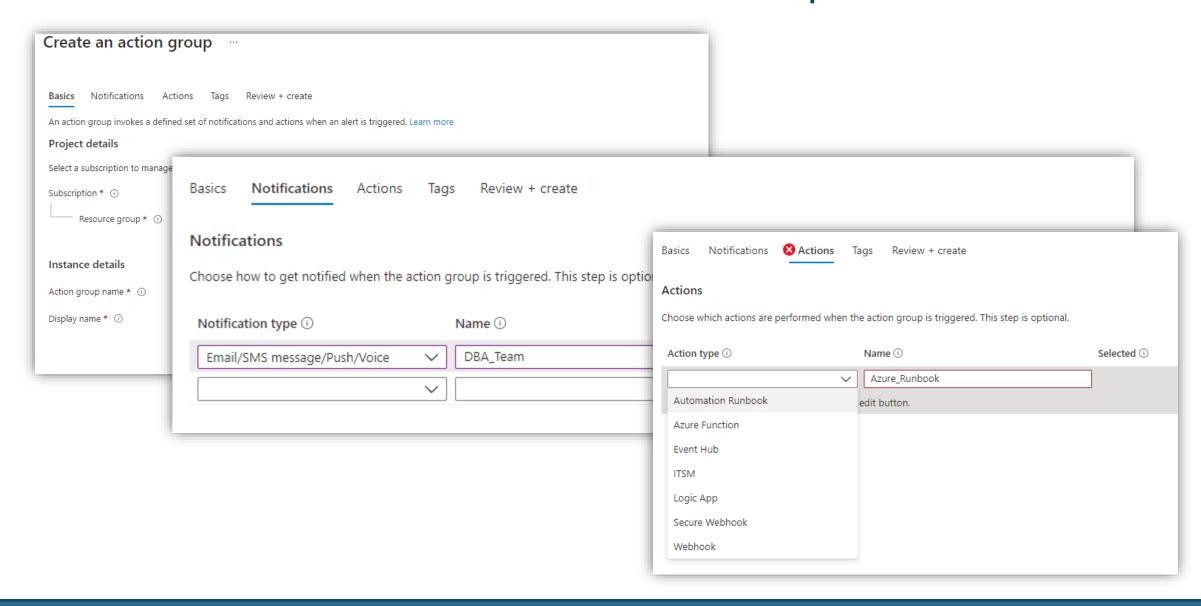
Azure Monitor Metrics

Metric Name	Aggregation Type	Minimum Alert Time Window
CPU percentage	Average	5 minutes
Data IO percentage	Average	5 minutes
Log IO percentage	Average	5 minutes
DTU percentage	Average	5 minutes
Total database size	Maximum	30 minutes
Successful Connections	Total	10 minutes
Failed Connections	Total	10 minutes
Blocked by Firewall	Total	10 minutes
Deadlocks	Total	10 minutes
Database size percentage	Maximum	30 minutes
In-Memory OLTP storage percent(Preview)	Average	5 minutes
Workers percentage	Average	5 minutes
Sessions percent	Average	5 minutes
DTU limit	Average	5 minutes
DTU used	Average	5 minutes

Azure Monitor Alerts - Conditions



Azure Monitor Alerts – Action Groups



Azure Dashboards

Customizable

Pin:

- Resources
- Metrics
- Log analytics charts
- Text boxes

Private or shared

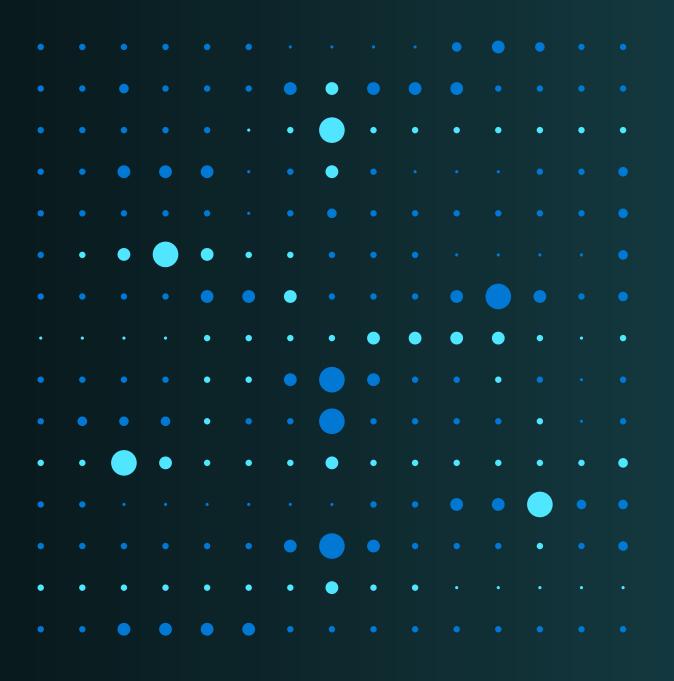
Back-up or copy

- Download JSON save for backup purposes
- Replace references from one server/database to the other
- Upload as new dashboard

Demonstration Time



Azure Log Analytics



What is Log Analytics?

Append-only log data Queried using Kusto Query Language (KQL) SQL-Like language Cost Pay-by-ingestion • Minimize cost by only pulling over needed metrics Latency • 10-15 minutes max latency

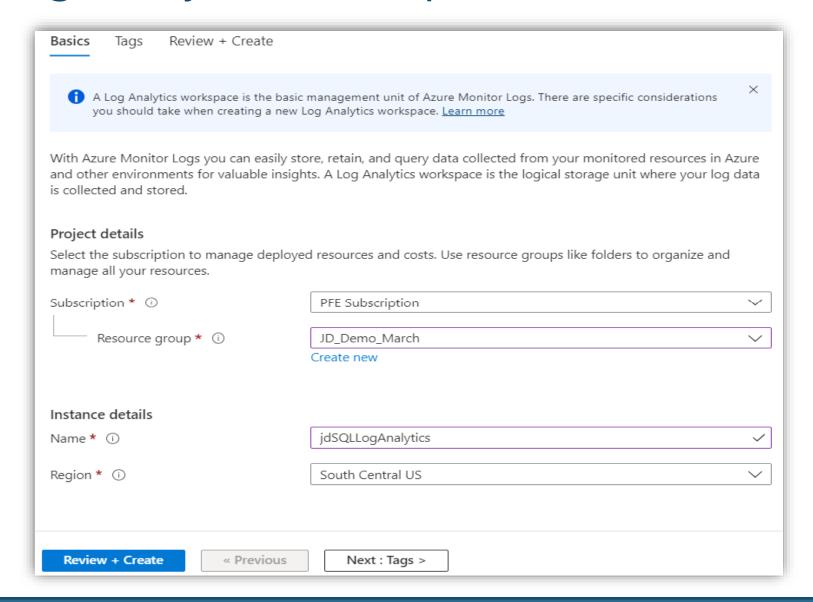
Enabling Log Analytics

Create a Log Analytics Workspace

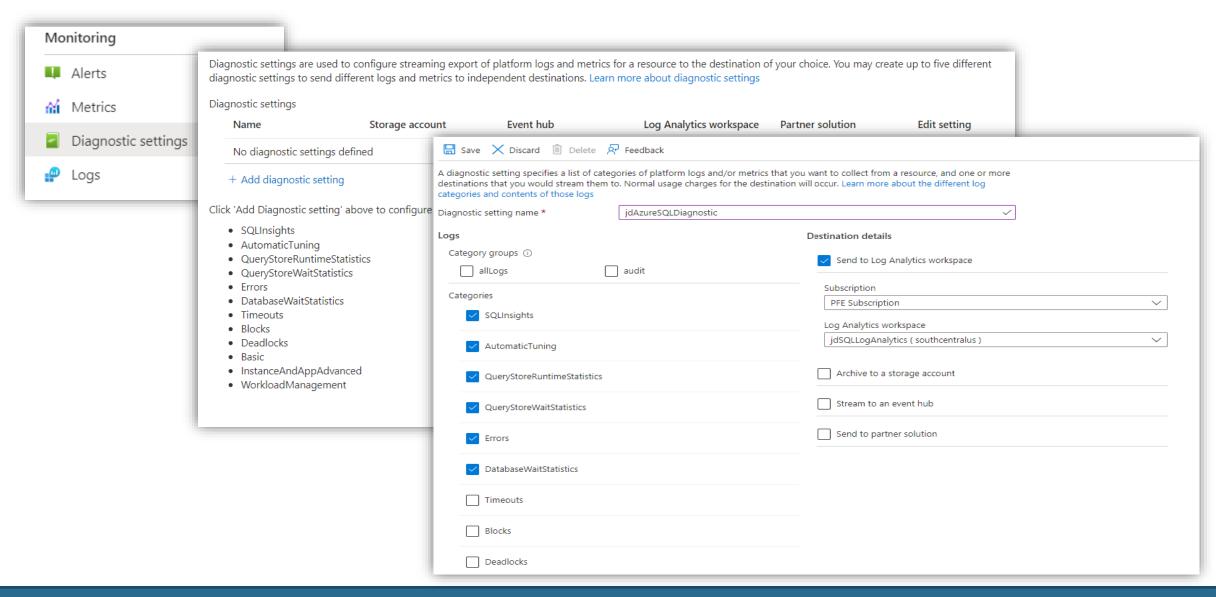
Add new 'Diagnostic setting' to send logs to your workspace

Select which metrics you want to monitor

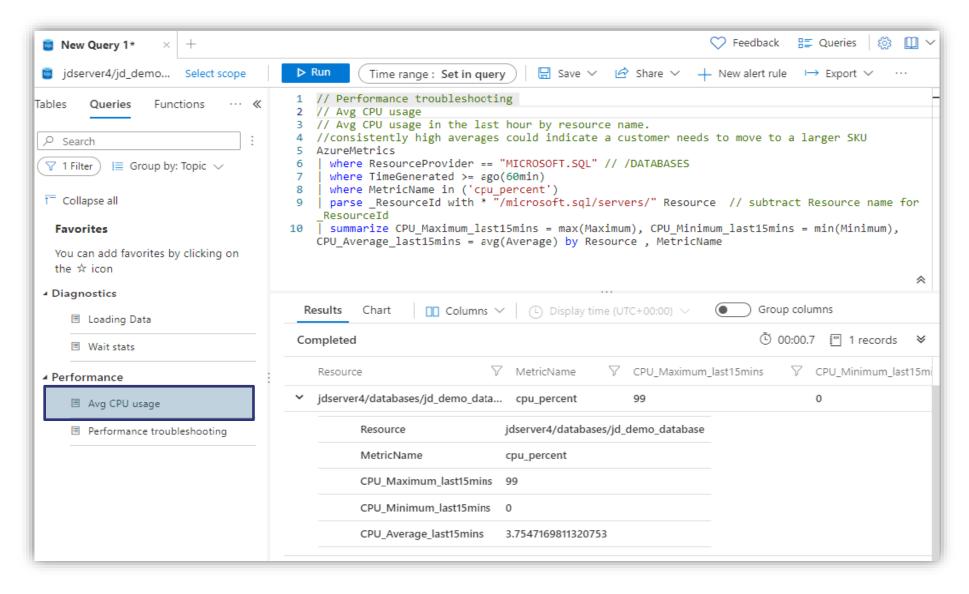
Create Log Analytics Workspace



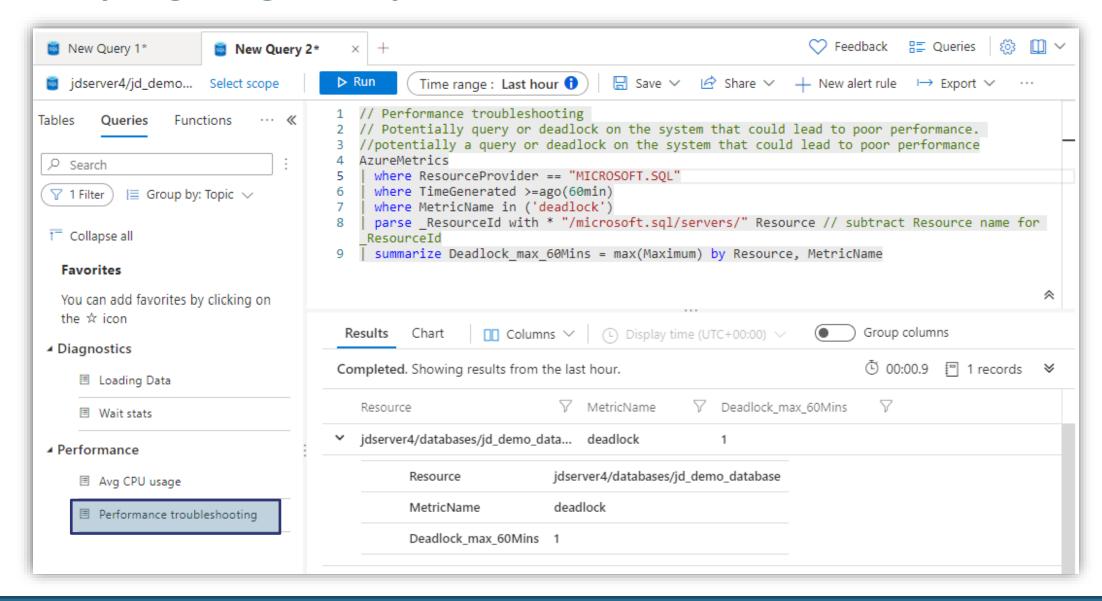
Configure Diagnostic Settings



Querying Log Analytics (Avg CPU Usage)



Querying Log Analytics (Deadlocks)



Demonstration Time

Questions?