

Top Tips to make your Azure Monitor Rock (around the Xmas Tree!)

Kevin Greene

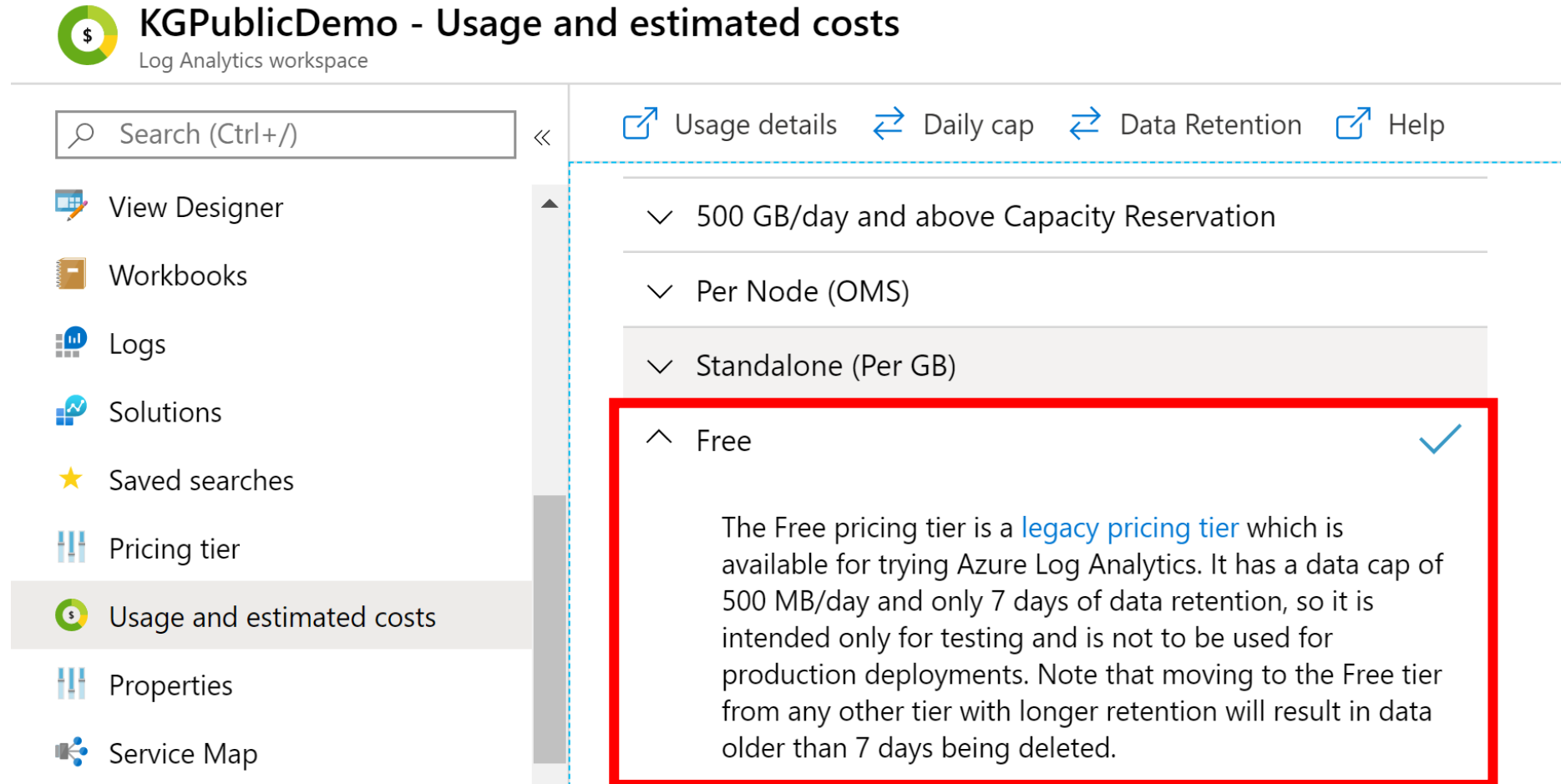
Azure Practice Lead (Ergo)

 @kgreeneit



Azure Monitor Tip 1 – Sign Up!

- 12 Months free access
- \$200 free credit
- Get free use of 25+ Azure services
- Select the 'Free' tier for Azure Monitor



The screenshot shows the 'Usage and estimated costs' page for a Log Analytics workspace named 'KGPublicDemo'. The left sidebar contains a search bar and a list of navigation items: View Designer, Workbooks, Logs, Solutions, Saved searches, Pricing tier, Usage and estimated costs (highlighted), Properties, and Service Map. The main content area has tabs for Usage details, Daily cap, Data Retention, and Help. Under the Usage details tab, there are expandable sections for pricing tiers: '500 GB/day and above Capacity Reservation', 'Per Node (OMS)', 'Standalone (Per GB)', and 'Free'. The 'Free' tier is selected and highlighted with a red border. A blue checkmark is next to the 'Free' tier name. The description for the Free tier states: 'The Free pricing tier is a legacy pricing tier which is available for trying Azure Log Analytics. It has a data cap of 500 MB/day and only 7 days of data retention, so it is intended only for testing and is not to be used for production deployments. Note that moving to the Free tier from any other tier with longer retention will result in data older than 7 days being deleted.'

KGPublicDemo - Usage and estimated costs
Log Analytics workspace

Search (Ctrl+/)

View Designer
Workbooks
Logs
Solutions
Saved searches
Pricing tier
Usage and estimated costs
Properties
Service Map

Usage details Daily cap Data Retention Help

500 GB/day and above Capacity Reservation

Per Node (OMS)

Standalone (Per GB)

Free ✓

The Free pricing tier is a [legacy pricing tier](#) which is available for trying Azure Log Analytics. It has a data cap of 500 MB/day and only 7 days of data retention, so it is intended only for testing and is not to be used for production deployments. Note that moving to the Free tier from any other tier with longer retention will result in data older than 7 days being deleted.

<https://azure.microsoft.com/en-gb/free/>

Azure Monitor Tip 2 – Onboarding at Scale

➔ Onboard at scale using Azure Policy

+ Policy definition + Initiative definition Export definitions Refresh

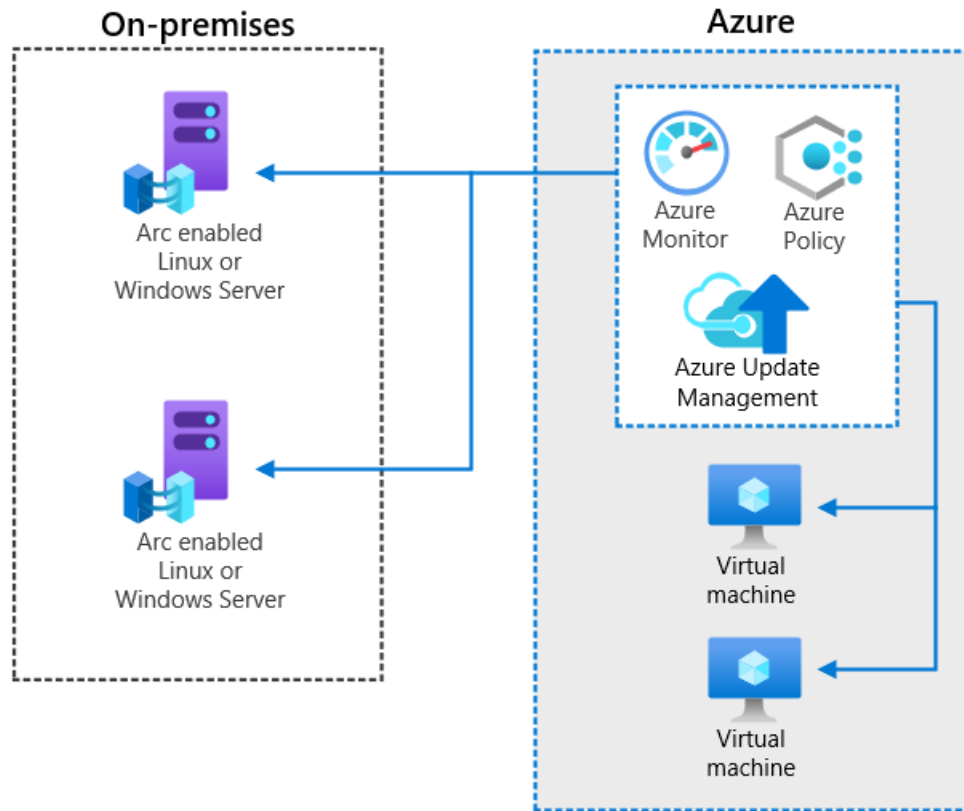
Scope: 3 selected Definition type: Initiative Category: All categories Search: monitor

Now export your definitions and assignments to GitHub and manage them using actions! Click on 'Export definition' menu option. Learn more

Name ↑↓	Definition location ↑↓	Policies ↑↓	Type ↑↓	Definition type ↑↓
Configure Linux machines to run Azure Monitor Agent and associa...		4	BuiltIn	Initiative
Configure Windows machines to run Azure Monitor Agent and ass...		2	BuiltIn	Initiative
Enable Azure Monitor for VMs		10	BuiltIn	Initiative
Enable Azure Monitor for Virtual Machine Scale Sets		6	BuiltIn	Initiative
[Preview]: Configure machines to automatically install the Azure M...		7	BuiltIn	Initiative

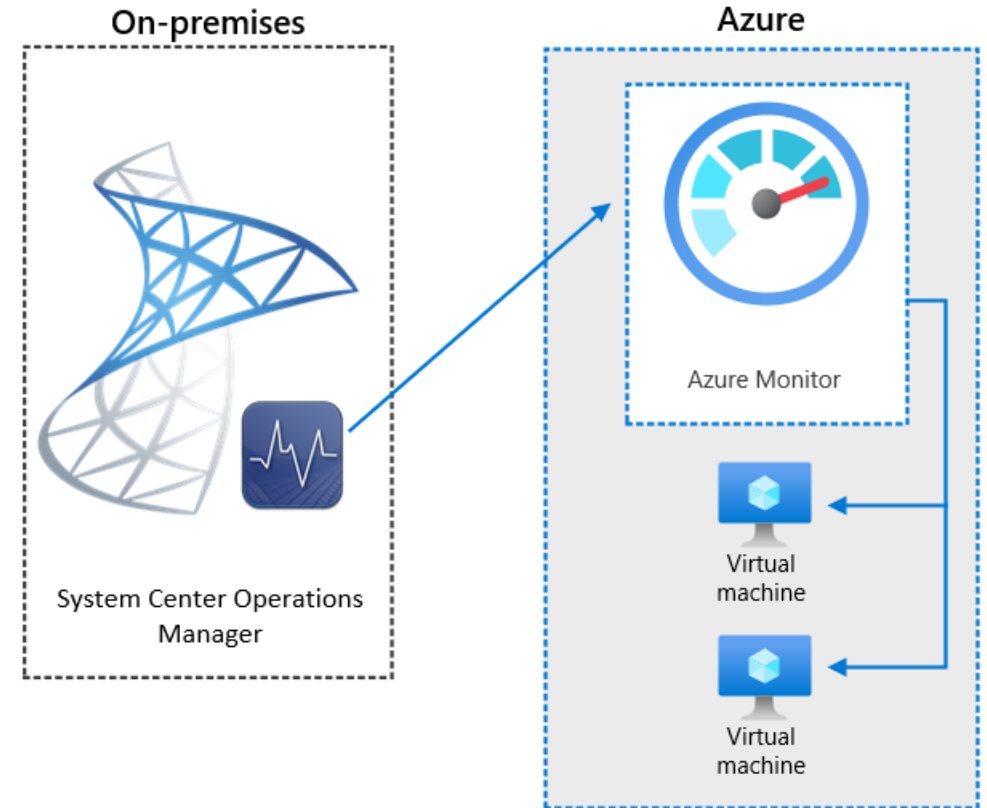
<https://docs.microsoft.com/en-us/azure/azure-monitor/vm/vminsights-enable-policy>

Azure Monitor Tip 3 – Connect Your Hybrid Workloads



Azure Arc

<https://tinyurl.com/azmonwitharc>



SCOM

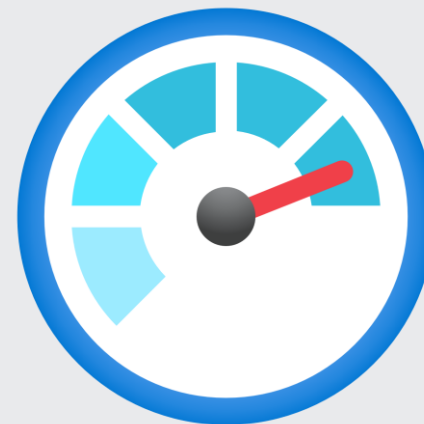
<https://tinyurl.com/azmonwithscom>

Azure Monitor Tip 4 – Use Dashboards



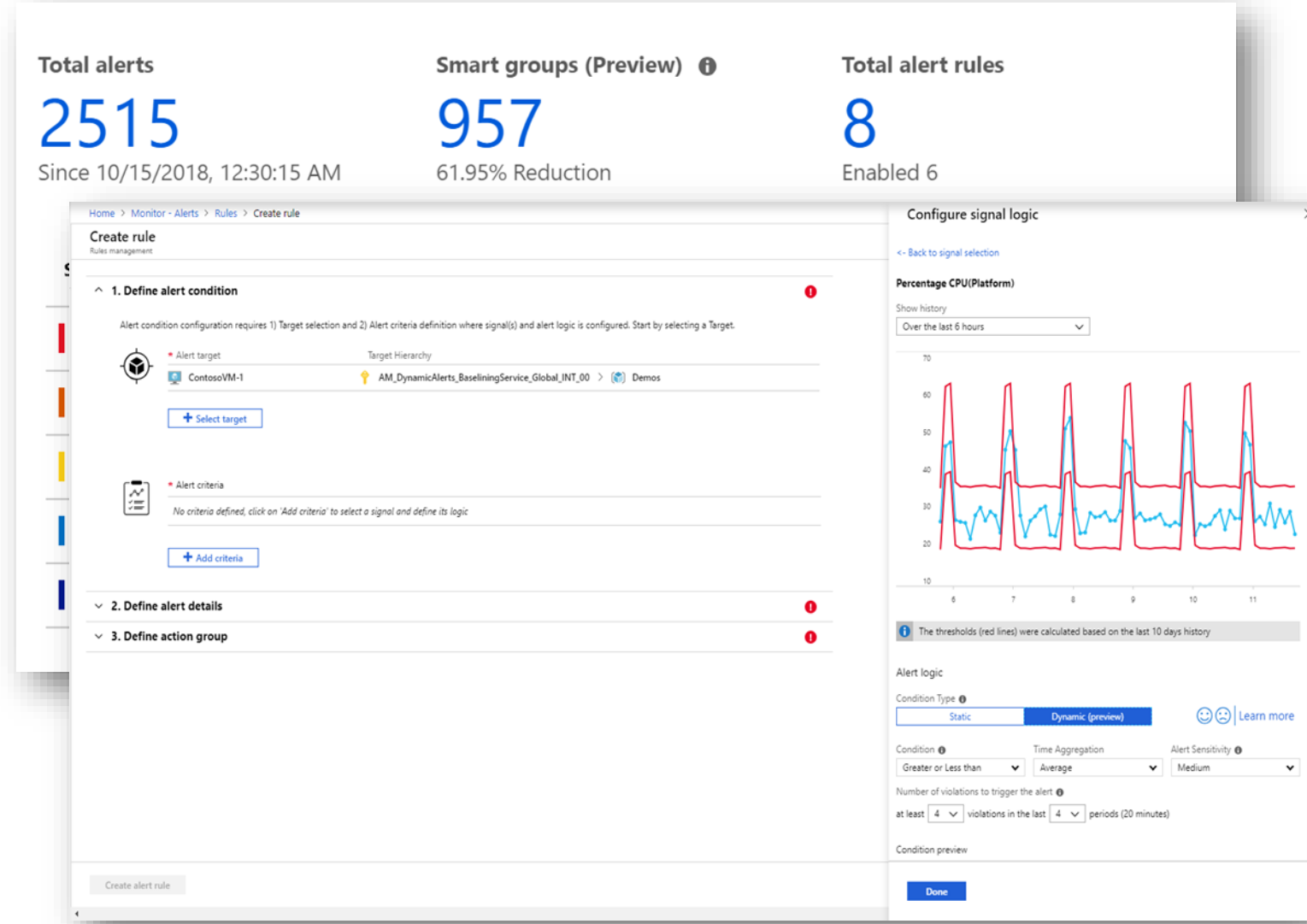
<https://docs.microsoft.com/en-us/azure/azure-monitor/visualize/tutorial-logs-dashboards>

Demo: Dashboards



Azure Monitor Tip 5 – Get Smart with Dynamic Tuning

- ➔ Smart Group alert lifecycle management
- ➔ Alert suppression with processing rules (e.g. maintenance mode)
- ➔ Learns signal behavior and auto adjusts thresholds
- ➔ Learns long-range patterns (holidays, downtimes) and reduces noise
- ➔ Learns service's performance and adapts thresholds

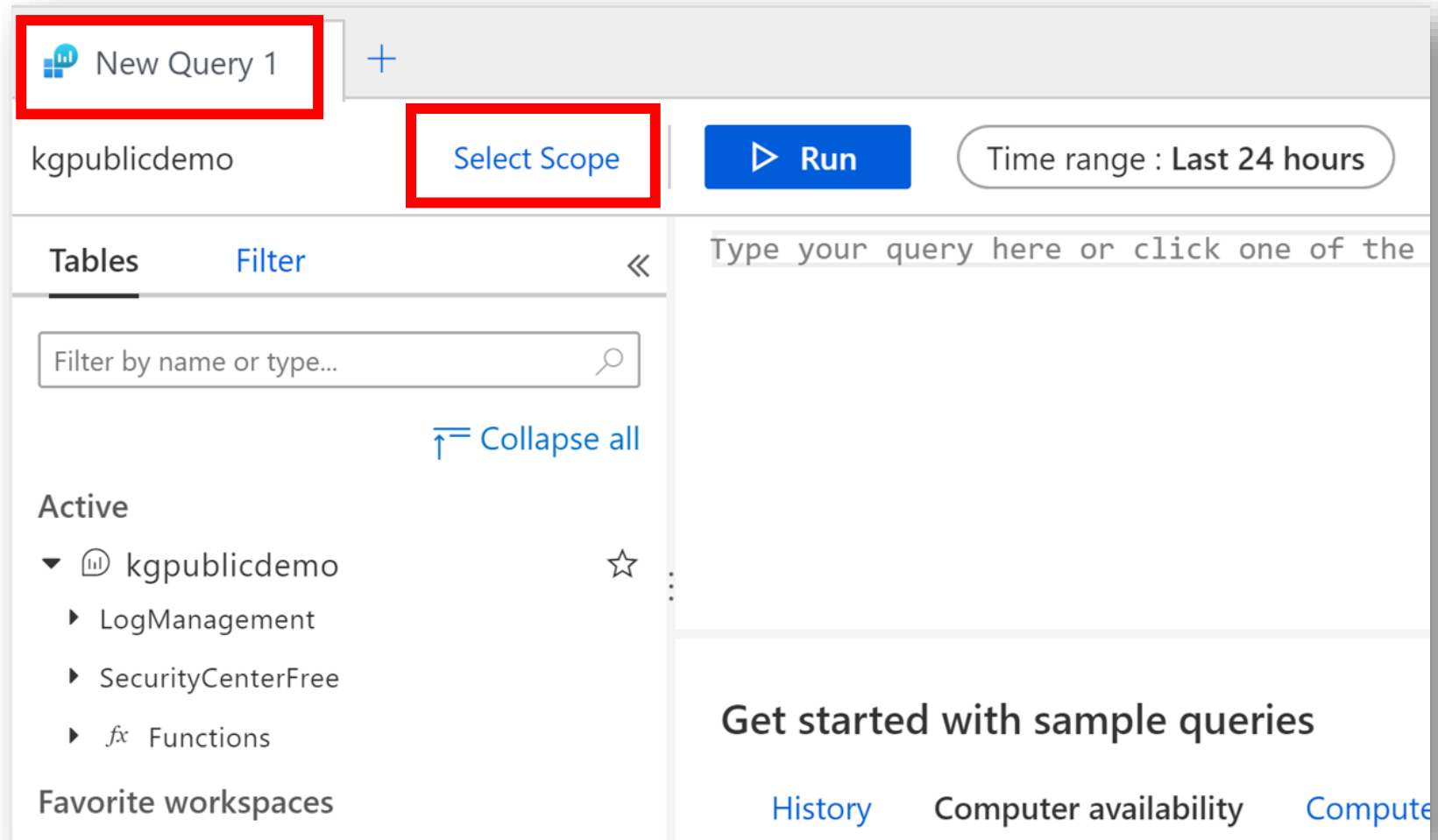


Azure Monitor Tip 6 – Get your Log Scoping Right

→ If your queries are not returning any data, check the scope

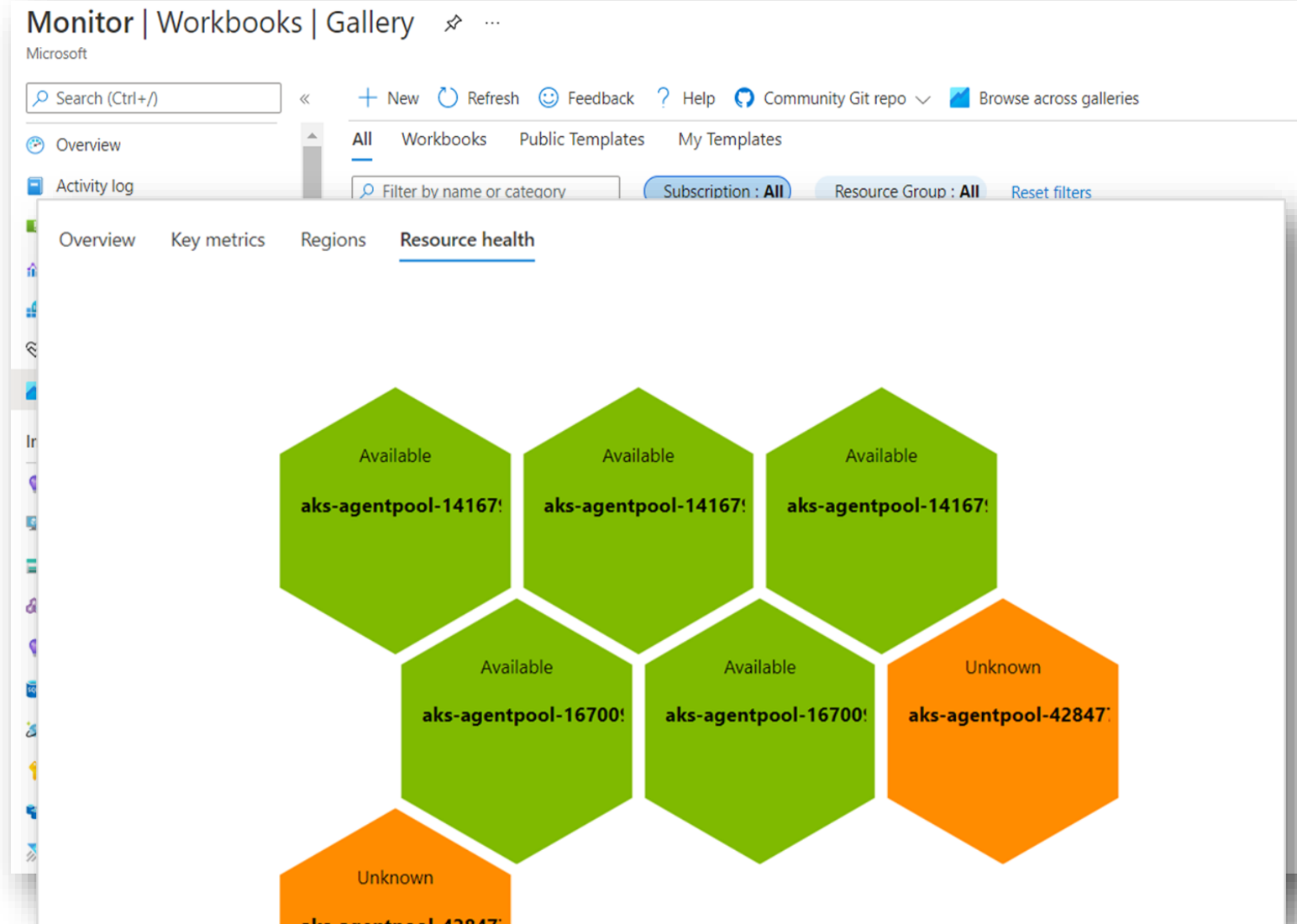
→ Default scope is set to the LA workspace

→ Different scope types present different sample queries and depend on available log data

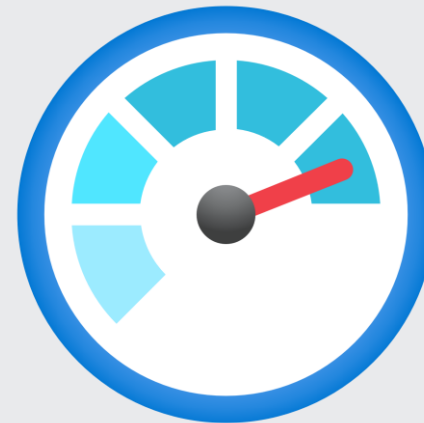


Azure Monitor Tip 7 – Work with Workbooks!

- Visual reporting from within the Azure Portal
- Query data from multiple sources
- Use Galleries to create, import and share your workbooks
- Choose from a list of data visualizations
- Combine all your monitoring data into a single report

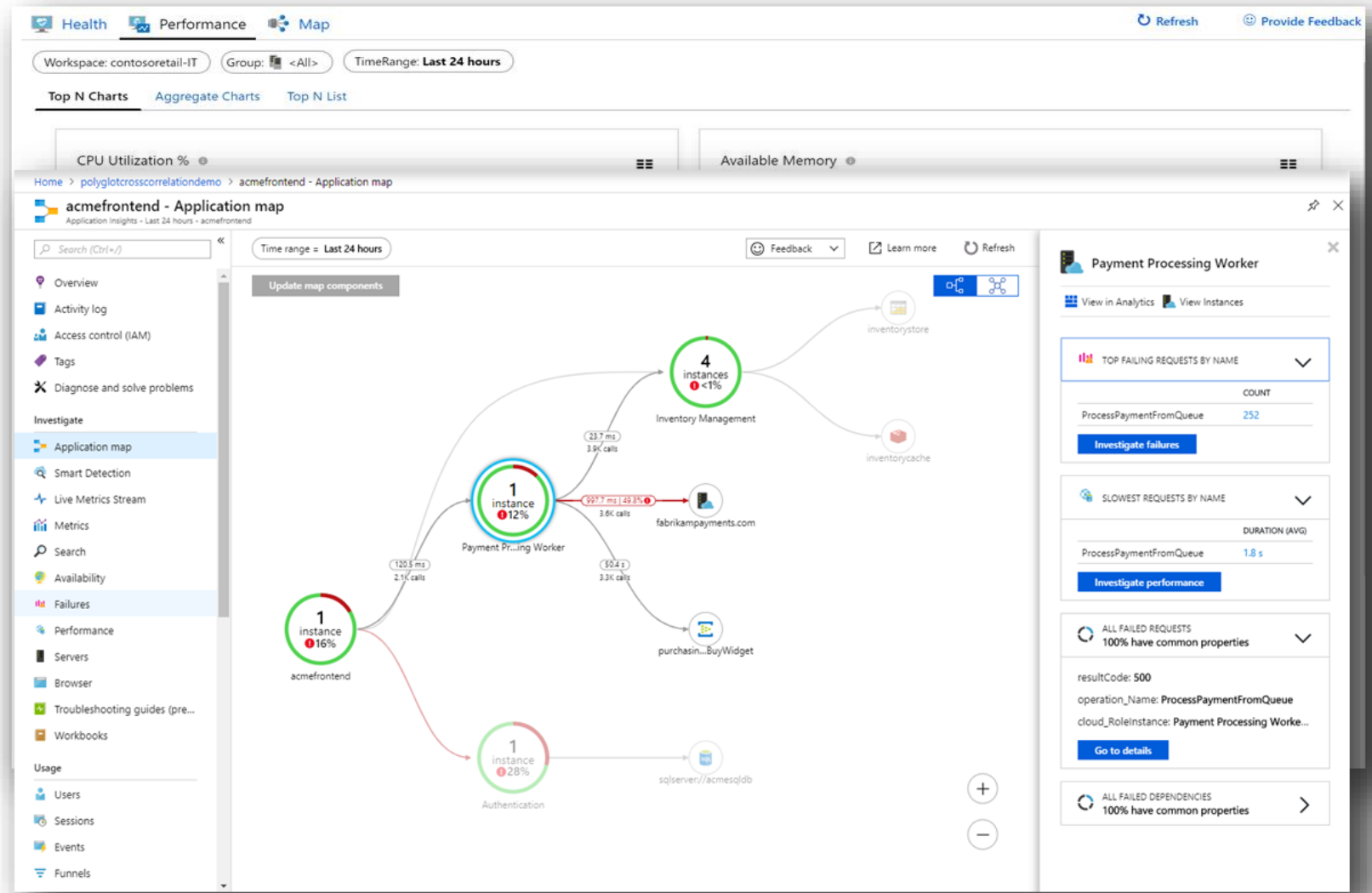


Demo:
Alerts and Workbooks

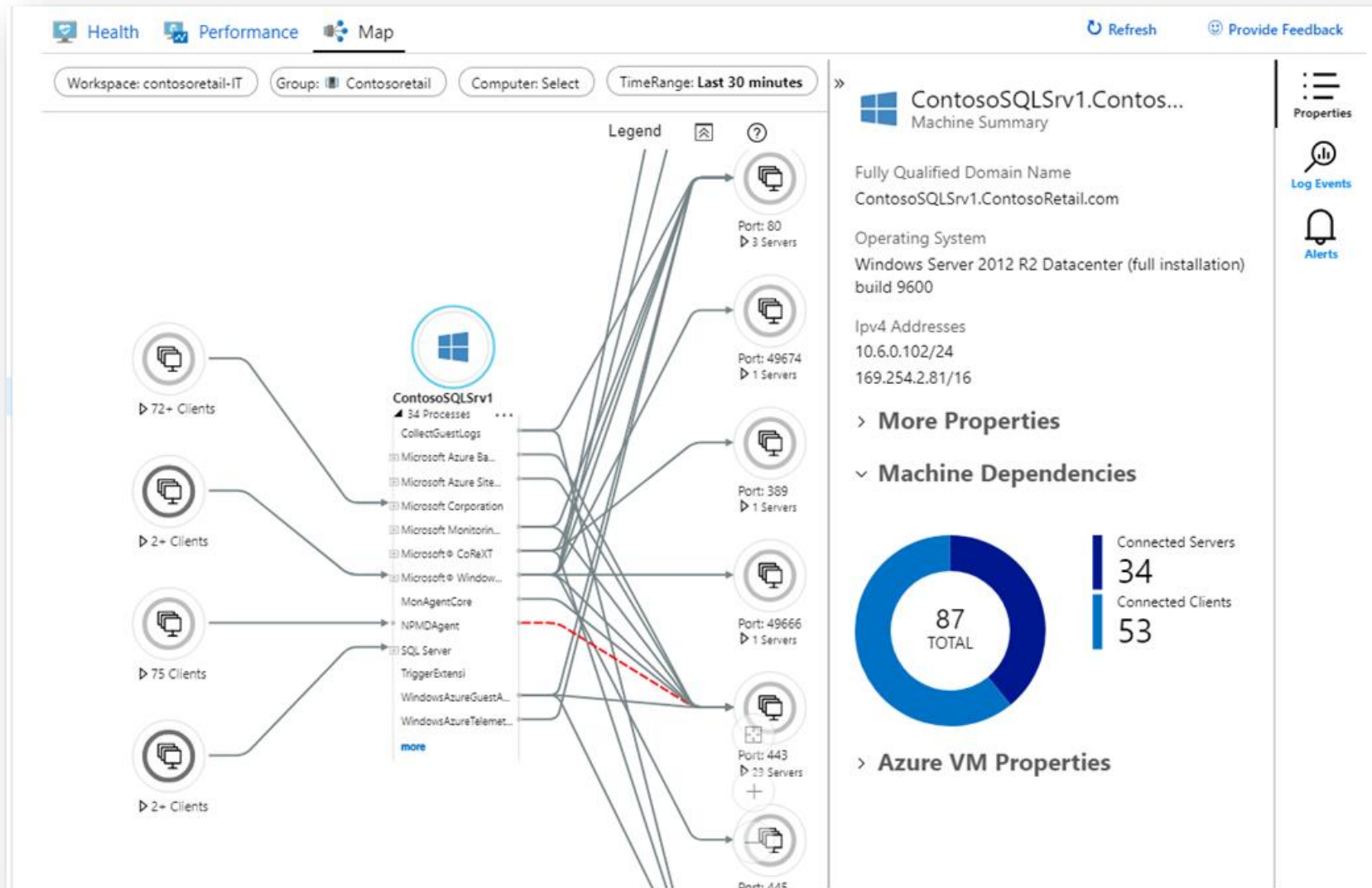


Azure Monitor Tip 8 – Dive Deep with Insights

- Near real-time monitoring of core VM components (CPU, Memory, Disk, Network...)
- Health diagnostics, that help reduce mean time to resolution
- Monitor apps in .NET, JS, Java, Node.js or any language with OSS SDKs
- Visualize server/client connections & dependencies with App Map
- Drill down to code-level with Snapshot Debugging & Profiling



Azure Monitor Tip 9 – Discover Dependencies with Service Map

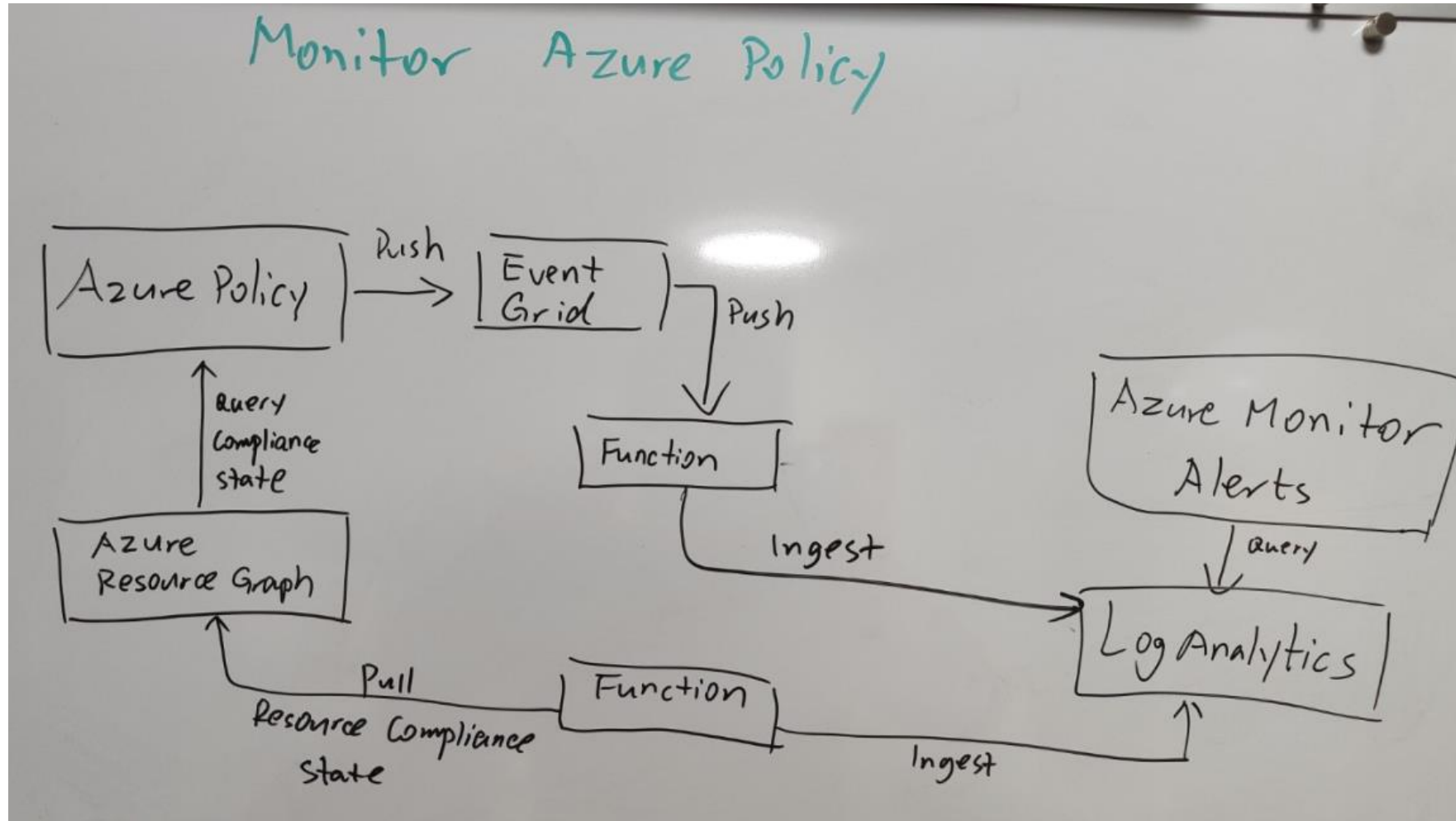


<https://docs.microsoft.com/en-us/azure/azure-monitor/vm/service-map>

Demo:
Azure Monitor Insights



Azure Monitor Tip 10 – Think Outside the Box with Community Solutions



<https://blog.tyang.org/2021/12/06/monitoring-azure-policy-compliance-states-2021-edition>

Additional Community Resources to get you started...

➔ Azure Monitor Community GitHub:
<https://github.com/microsoft/AzureMonitorCommunity>

➔ Official Microsoft KQL documentation:
<https://docs.microsoft.com/en-us/azure/azure-monitor/logs/get-started-queries>

➔ KQL Resources (from Billy York):
<https://www.cloudsma.com/kql-resources/>

➔ Must Learn KQL Series (from Rod Trent):
<https://github.com/rod-trent/MustLearnKQL>



Demo:
Monitoring Azure Policy
Compliance



A look into the future of Azure Monitoring....

[OpenTelemetry Exporter for .NET, Node.js, and Python applications \(preview\)](#)

[Pre-configured metric alerts for Container insights \(preview\)](#)

[Custom metrics in Azure Monitor \(preview\)](#)

[Log Analytics workspace data export \(preview\)](#)

[Monitor your SQL deployments with SQL insights \(preview\)](#)

[Send log data to Azure Monitor via the HTTP Data Collector API \(preview\)](#)



CXO Hardware Microsoft Storage Innovation Apple Security Newsletters Blogs More Edition: UK



 MUST READ: **Bosses are reluctant to spend money on cybersecurity. Then they get hacked**

Microsoft 'Aquila': System Center Operations Manager in the cloud

Microsoft is readying a private preview release of 'Aquila,' which is SCOM spun up in Azure, according to my contacts.



Thank you