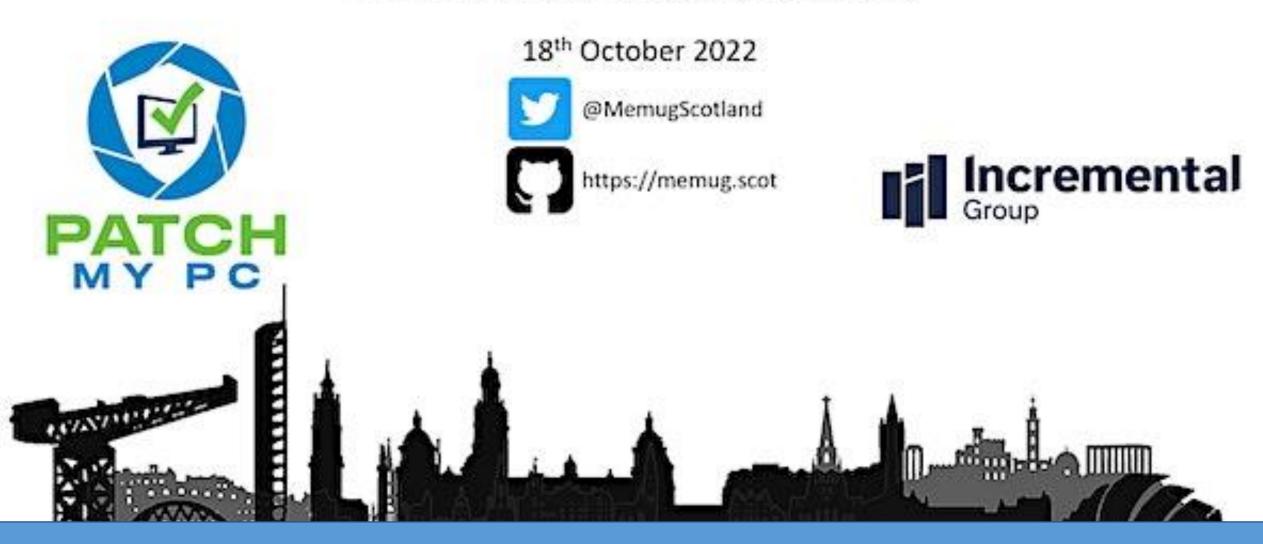
MEMUG Scotland



Beyond Native Reporting!

Speaker Info Maurice Daly



Principal Cloud Architect at **CloudWay**, and a Microsoft MVP in the area of Enterprise Mobility since 2017.

Twitter - @modaly_it

Blog - MSEndpointMgr Blog - https://www.msendpointmgr.com

(Yes we do know about the name change 🙎)

Interests – Formula 1, all things IT..









YOUR EXPERIENCE — INTUNE REPORTS

Intune Reporting

Historically this has been the unloved area of Microsoft Endpo.. I mean Intune. It has improved recently, but typically this is what I hear

The Good

Endpoint Analytics reporting

The Bad

Number inconsistencies

The Ugly

Exportable formats



INTUNE REPORTS — GETTING BETTER

BUT ITS GETTING BETTER

Recent additions help admins get a clearer view of the world

- Windows 10 and later feature updates
 - Safeguard Hold Status
- Feature Update Readiness
 - Identify app, driver or hardware incompatibility
- Endpoint Analytics
 - Device and application performance, system reboots



WHAT IS KUSTO QUERY LANGUAGE??

Kusto may refer to:

- Kustö, the Swedish name of Kuusisto (island), Finland
- Marek Kusto (born 1954), Polish football player
- Microsoft Kusto, a query language used in Azure Data Explorer

KQL History

- Development started in 2014 as a Microsoft project to provide fast and scalable log and telemetry insights. With the internal code name 'Kusto' (named after Jacques Cousteau, as a reference to "exploring the ocean of data").
- Microsoft announced a public preview of Azure Data Explorer at Ignite in 2018
- https://en.wikipedia.org/wiki/Kusto

YOU MIGHT REMEMBER KQL FROM SUCH THINGS AS...

CMPivot

- CMPivot uses a subset of KQL, with some minor differences, but uses the same logic
- Useful queries include
 - Find local administrators;
 Administrators
 | where Name !Contains 'Administrator' and Name !contains 'Domain Admins'
 - Installed Products; Installed Software | summarize dcount(Device) by ProductName
 - Clients not part of a boundary group;
 CcmLog('LocationServices') | where LogText contains 'Client is not in any boundary group.' | project Device, LogText, DateTime

Sentinel

WHY **SHOULD I USE** KQL FOR REPORTING?

Compliance Reporting

Organisations require proof of mitigation against security exploits

Native Export Formats

Detected applications, awesome CSV files FTW?

PowerBI You Say

My head hurst and now I need a license

Management

 You're rebuilding a failed exchange server? That's nice, could you please give me a report and have it for a meeting I have in 30 minutes?

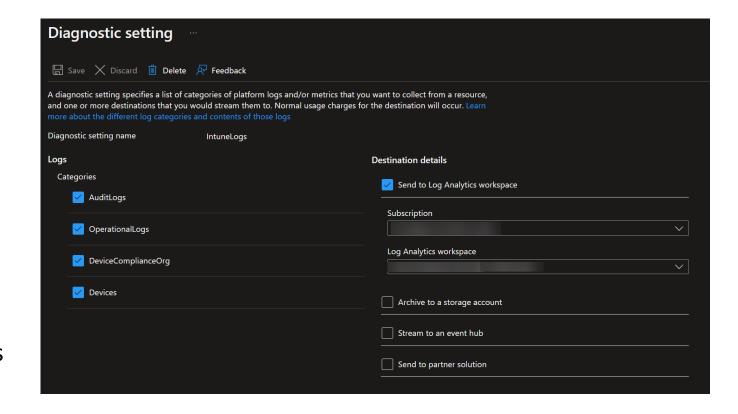


FIRST THINGS FIRST – (This "might" cost money)

BEFORE we go custom creating KQL queries and workbooks, we NEED a Log Analytics workspace

• Requirement(s)

- Azure Subscription
- Resource Group / Owner, or GA rights to provision the Log Analytics Workspace
- Intune Admin / Globlal Admin rights to enable diagnostic settings both in Intune and Azure AD



THE BASICS – WHAT YOU NEED TO KNOW

• Start querying your data:

- Search
- Where
- Limit/Take
- Count
- Project
- Distinct
- Render
- Order/Sort/Top
- Summarize



KQL EXAMPLES

• Start querying your data:

- Search
- Where
- Limit/Take
- Count
- Project
- Distinct
- Render
- Order/Sort/Top
- Summarize

Some Examples

render piechart

```
IntuneDevices
| search "iOS"

IntuneAuditLogs
| search "%User%"

AppInventory_CL
| summarize dcount(ManagedDeviceID_g) by AppName_s,
AppVersion_s, AppPublisher_s
| order by dcount_ManagedDeviceID_g desc
| take 5
```

MEMUG Scotland



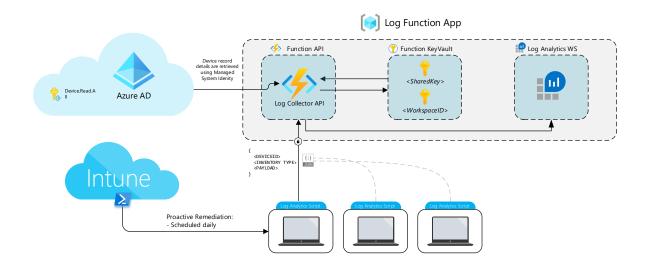
Going CUSTOM – Function App

What about custom data collection?

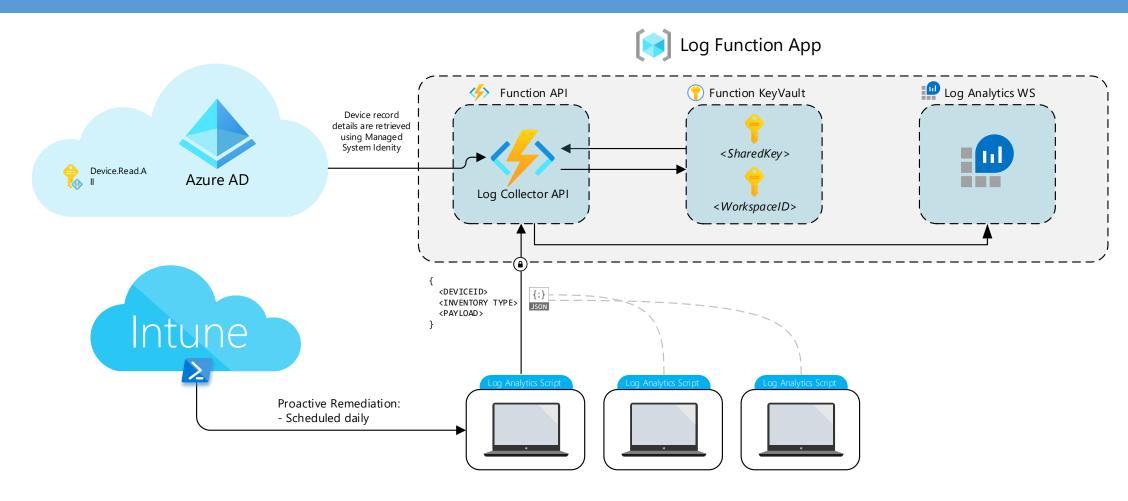
Jan Ketil Skanke has written a custom Azure function that allows you to gather application and device inventory information... But that is just the beginning

Real World Applications

- Application Reliability
- AppLocker
- Driver Information
- BIOS Information
- Application Audit Events



Going CUSTOM – Function App



https://msendpointmgr.com/2022/01/17/securing-intune-enhanced-inventory-with-azure-function/

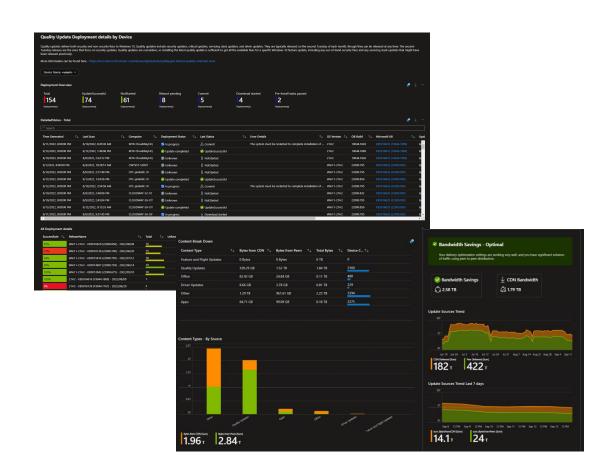
Going CUSTOM – Function App

OK.. I have data but then what?

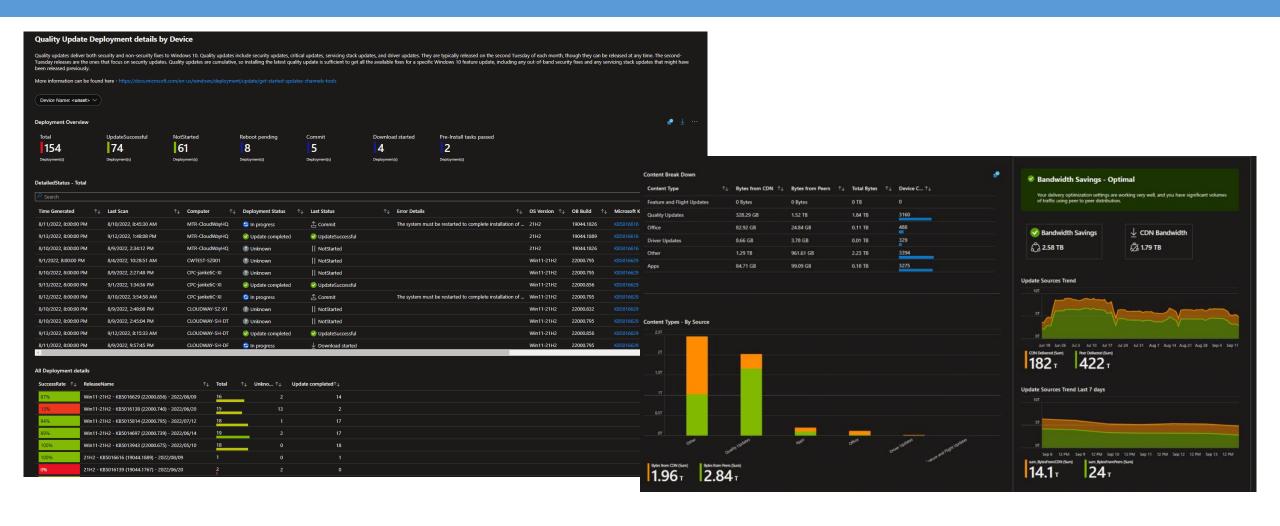
Now you have the raw data in Log Analytics, it's time to build a workbook! (or steal with pride)

KQL Workbooks

- Provides a custom reporting framework
- Links can be shared with other staff members (requires log analytics reader)
- Fully dynamic based on latest data set, no more downloading CSV's and showing off your Excel skills



KQL Workbooks FTW!!!



MEMUG Scotland



USEFUL RESOURCES

Azure Monitor Community (GitHub)

• <u>GitHub - microsoft/AzureMonitorCommunity: An open repo for Azure Monitor queries, workbooks, alerts and more</u>

MSEndpointMgr

- Windows Update Compliance Workbook Community Edition MSEndpointMgr
- Intune BIOS Update Compliance Reporting MSEndpointMgr
- CloudLAPS Analytics and Monitoring MSEndpointMgr
- Log Analytics & AppLocker Better Together MSEndpointMgr
- Delivery Optimization Configuration & Monitoring MSEndpointMgr

USEFUL RESOURCES

Peter van der Woude

 Enhance Update Compliance with a custom Workbook in Microsoft Endpoint Manager admin center – All about Microsoft Endpoint Manager (petervanderwoude.nl)

Damian Van Robaeys

- <u>Intune reporting with Log Analytics: list local admin accounts on your devices</u> and who added them | Syst & Deploy (systanddeploy.com)
- Intune reporting with Log Analytics: analyze disk size to see what's taking up place | Syst & Deploy (systanddeploy.com)

FIN.

Beyond Native Reporting! – It's a wrap

I hope you found this informative! Next up..





Can you please answer the second question now!

