# Session 4 | Detections



Session 4 | Detections

# Your | hosts

# Alex Verboon









https://twitter.com/alexverboon

https://www.linkedin.com/in/verboonalex/

https://github.com/alexverboon

https://www.verboon.info/

https://twitter.com/castello\_johnny

<u> nttps://www.linkedin.com/in/giannicastaldi/</u>

https://github.com/KustoKing

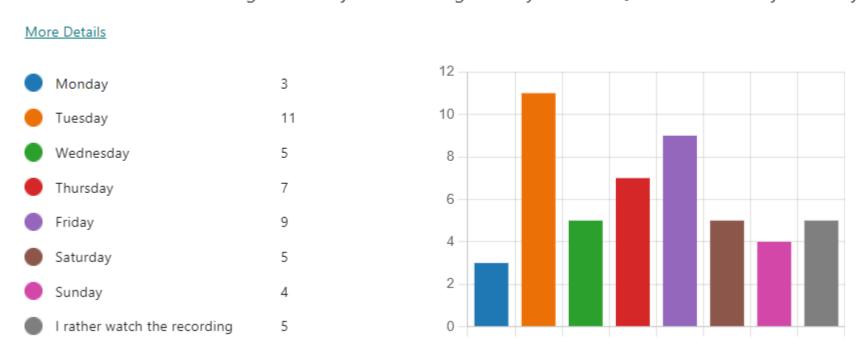
<u> https://www.kustoking.com/</u>

## Show | Agenda

Welcome / Poll Results What's new in KQL Working with IOCs Learning KQL Our KQL Guest What did you do with KQL this month? KQL Challenge of the month

#### Poll Results

1. When we started we thought Tuesday would be a good day for the KQL Cafe. Which days would you like?



We will continue to host KQL Café on Tuesdays

#### Poll Results

2. For the time we choose to start at 6:00 PM in western europe. (summer UTC+2, winter UTC+1) What would be a good time for you?

#### More Details

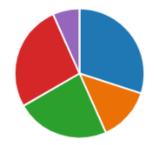
- 9 09:00 AM (PDT) 04:00 PM (UTC) ... 9
- 10:00 AM (PDT) 05:00 PM (UTC) ... 4
- 11:00 AM (PDT) 06:00 PM(UTC) ... 7
- I rather watch the recording
- Other

2

10

10

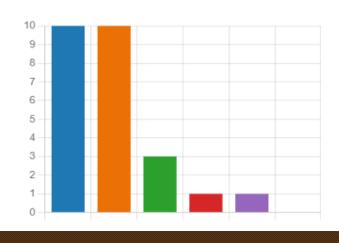
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3. After choosing the date and the time the next question is the duration. We try to aim for two hours of content, and the current average is 1 hour and 49 minutes. What do you think is a good duration?

#### More Details

- 45~60 minutes
- 60~75 minutes
- 75~90 minutes
- 90~105 minutes
- 105~120 minutes
- Other



We understand 2 hours can be quite lengthy, hence we decided to shorten the show to approx. 1 hr. 15 minutes

#### Poll Results

5 respondents (31%) answered KQL for this question.

Operator of the day sign in logs beginner in this realm KQL and Powershell AAD issue

segment analysis with kql deep dive free environments

Operator of the day sign in logs beginner in this realm Refining logs KQL queries token works beginner's beginner

Thanks for all your inputs, you gave us enough ideas for the upcoming shows

none business problems retro generation of dashboards sentinel

good sources Yup loC data dashboards and insights application of KQL Nah problems or situations live stream Maybe integrating response watchlists noise in scripts

range from midnight users

time range KQL code ie KQL

fly traffic analytics

unity Start from basics

improvements details

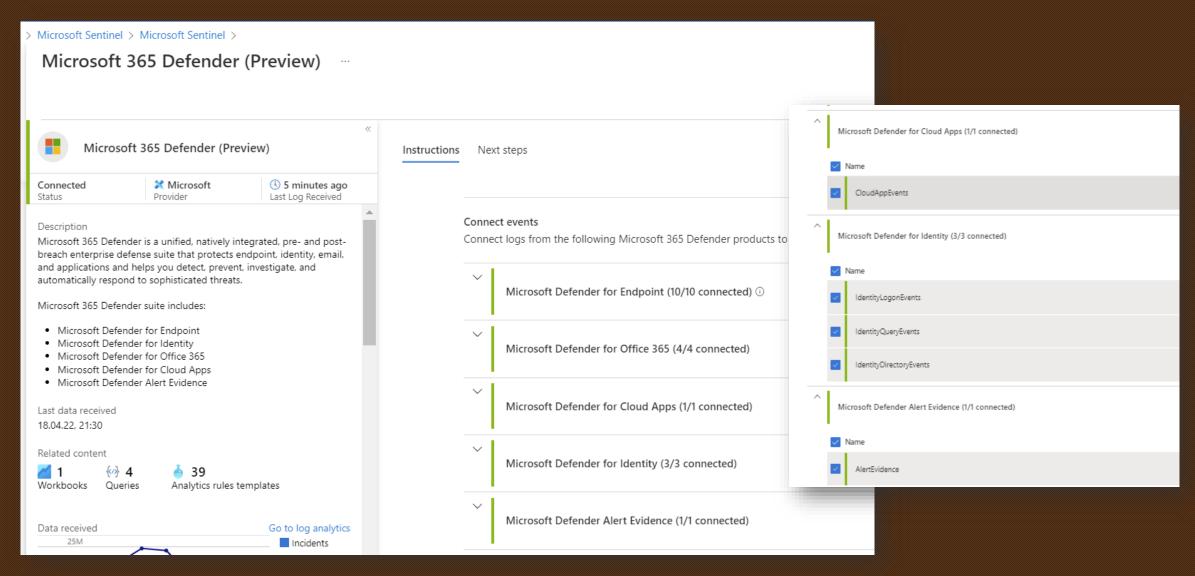
Best practices queries

KQL

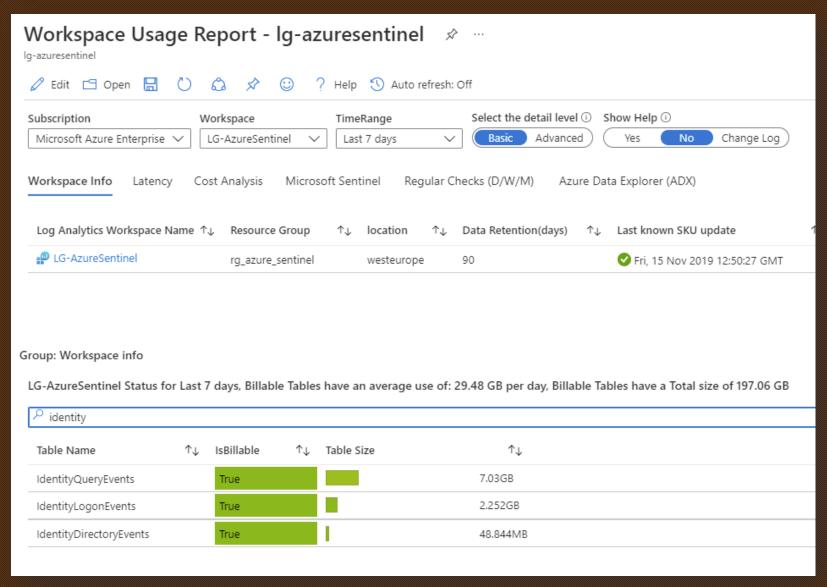
LAW and CL

tables Data manipulations

#### Microsoft 365 Defender Connector in Microsoft Sentinel

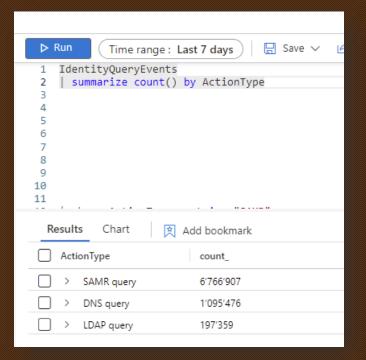


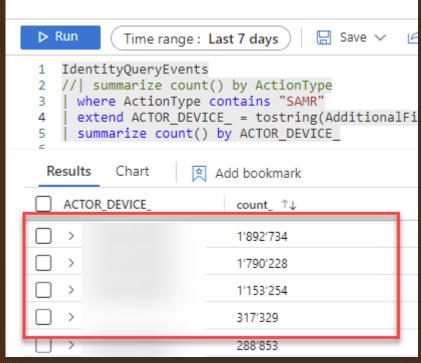
#### Microsoft 365 Defender Connector in Microsoft Sentinel



What's new in KQL

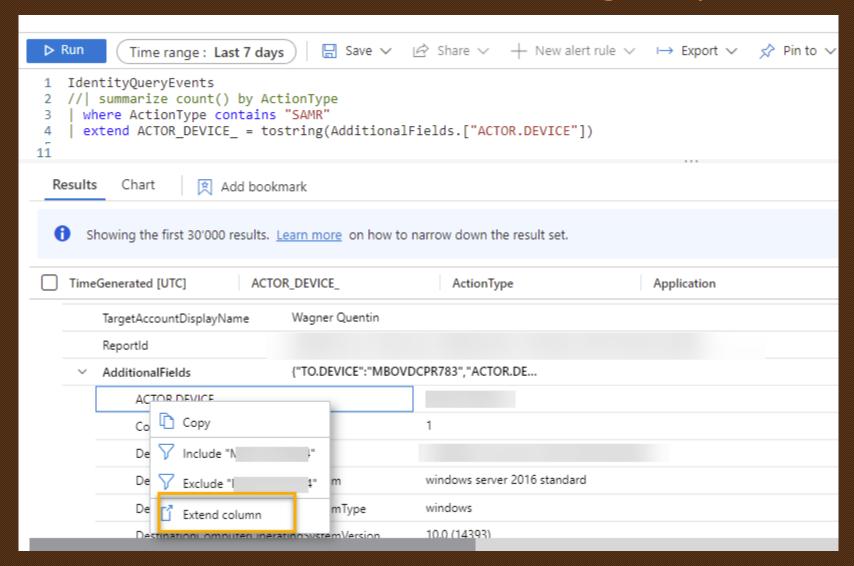
#### Microsoft 365 Defender Connector in Microsoft Sentinel





```
1 IdentityLogonEvents
2 | distinct ActionType
3
4 IdentityDirectoryEvents
5 | distinct ActionType
```

### Extend Columns in Microsoft Sentinel Log Analytics



### Black/Cat ALPHV ransomware

### FBI Releases IOCs Associated with BlackCat/ALPHV Ransomware | CISA

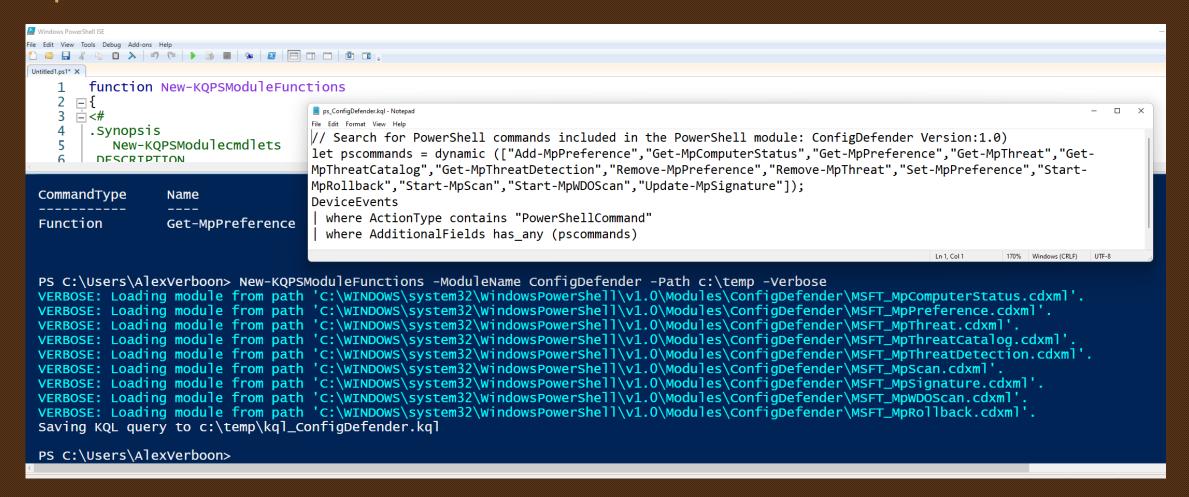
#### TLP: WHITE

Batch Scripts				
Filename	MD5 Hash			
CheckVuln.bat	f5ef5142f044b94ac5010fd883c09aa7			
Create-share-RunAsAdmin.bat	84e3b5fe3863d25bb72e25b10760e861			
LPE-Exploit-RunAsUser.bat	9f2309285e8a8471fce7330fcade8619			
RCE-Exploit-RunAsUser.bat	6c6c46bdac6713c94debbd454d34efd9			
est.bat	e7ee8ea6fb7530d1d904cdb2d9745899			
runav.bat	815bb1b0c5f0f35f064c55a1b640fca5			

# Learning MV-EXPAND

- Summarize
- Lists
- Series

# KQL Tools | Generate a KQL query that includes PowerShell cmdlets from a specific Module



https://gist.github.com/alexverboon/9ccf8af7569103397da2b8ba4079529d

# Today's | Guest Olaf Hartong

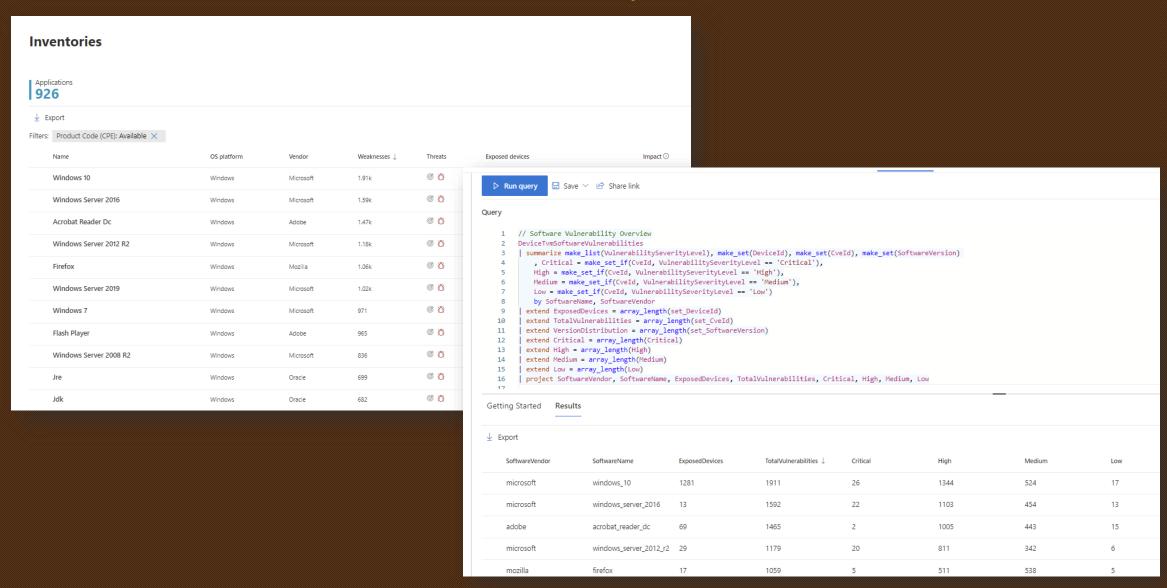


GitHub: <a href="https://github.com/olafhartong">https://github.com/olafhartong</a>

Blog: <a href="https://olafhartong.nl">https://olafhartong.nl</a>

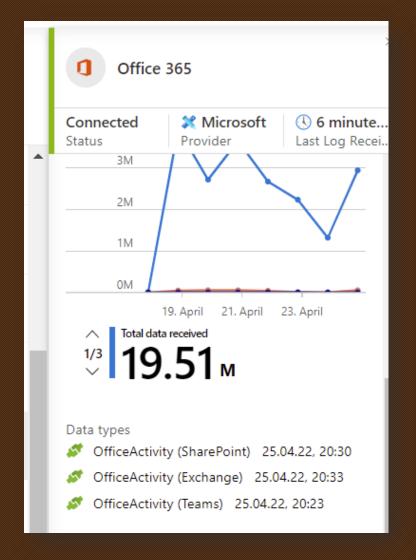
Company: <a href="https://falconforce.nl">https://falconforce.nl</a>

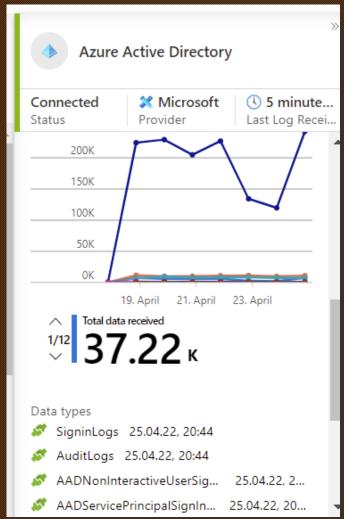
## This Month – Microsoft Defender for Endpoint – Software Vulnerabilities

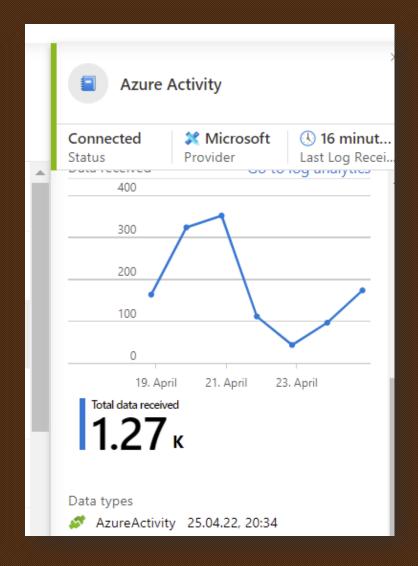


### This Month – Microsoft Defender for Endpoint – Software Vulnerabilities

```
// Software Vulnerability Overview
DeviceTvmSoftwareVulnerabilities
summarize make list(VulnerabilitySeverityLevel), make set(DeviceId), make set(CveId),
make set(SoftwareVersion)
  , Critical = make set if(Cveld, VulnerabilitySeverityLevel == 'Critical'),
  High = make set if(CveId, VulnerabilitySeverityLevel == 'High'),
  Medium = make_set_if(CveId, VulnerabilitySeverityLevel == 'Medium'),
  Low = make_set_if(CveId, VulnerabilitySeverityLevel == 'Low')
  by SoftwareName, SoftwareVendor
 extend ExposedDevices = array length(set DeviceId)
 extend TotalVulnerabilities = array_length(set_CveId)
 extend VersionDistribution = array_length(set_SoftwareVersion)
 extend Critical = array length(Critical)
 extend High = array_length(High)
 extend Medium = array_length(Medium)
 extend Low = array_length(Low)
 project SoftwareVendor, SoftwareName, ExposedDevices, TotalVulnerabilities, Critical, High, Medium, Low
```







```
New Query 1 ∘ × +
LG-AzureSentinel
                                                                                                            P Run (Time range : Last 3 days ) ☐ Save ∨ 😥 Share ∨ 🕂 Newslertrule ∨ → Export ∨ 🔗 Pinto ∨ 🔝 Format query
                  let connectortable = datatable (Connector: string, LogTable: string) [
   "Azure Active Directory", "Signinlogs",
                              "Asure Active Diretory", "Auditlogs",
"Asure Active Directory", "MCManagedIdentitySignInlogs",
"Asure Active Directory", "MCServicePrincipalSignInlogs",
                          Aure Active Directory, "AdMonitoractivellerSigninogs,"
Aure Active Directory, "AdMonitoractivellerSigninogs,"
Aure Active Directory, "AdMonitoractivellerSigninogs,"
Sertinel, "Thewaitest ligence Endicator,"
"Office 365", "OfficeActivity,"
"Aurement Lefender for Endpoint, "DeviceIngentVerts",
"Microsoft Defender for Endpoint, "DeviceIngentVerts",
"Microsoft Defender for Endpoint," "DeviceIngestryEvents,"
"Microsoft Defender for Endpoint," "DeviceIngestryEvents,"
                             "Ricrosoft Defender for Endpoint", "DeviceEnfo", "Ricrosoft Defender for Endpoint", "DeviceFileEvents", "Ricrosoft Defender for Endpoint", "DeviceWetserkDeents", "Ricrosoft Defender for Endpoint", "DeviceWetserkDeents", "Ricrosoft Defender for Endpoint", "DeviceWetserkEnfo",
                             "Ricrosoft Defender for Endpoint", "Device/Engel.cad/venta",
"Ricrosoft Defender for Endpoint", "Device/Engel.cad/venta",
"Ricrosoft Defender for Endpoint", "Device/EnderstrificateInfo",
"Ricrosoft Defender for Cloud Appa", "CloudApplwenta",
                             Picrosoft Defender for Cloud Ages, "MossSpadoultSeporting",
Picrosoft Defender for Office 365", "EnailNeets",
Picrosoft Defender for Office 365", "EnailNeets",
"Picrosoft Defender for Office 365", "EnailNtlathentInfo",
                             "Ricrosoft Defender for Office 355", "mailFootbellvery[ventx", 
"Ricrosoft Defender for Identity", "Identity[cgnofventx", 
"Ricrosoft Defender for Identity", "Identity[cgnofventx", 
"Ricrosoft Defender for Identity", "Identity[Cirectory[ventx",
                               "Microsoft Defender for Identity", "Asure Advanced Threat Protection",
                              "Asure Firewall", "AZURFIREWALLS",
"Asure Key Yault", "WULTS",
"Asure Web Application Firewall (WAF)", "APPLICATIONSATIMONS"
                          Device/Lents, Device/Lefterts, Device/ProcessIvents, Device/Registry/Lvents, Device/Lefterts/Lvents, Device/Lefterts/Lvents, Device/Lefterts/Lvents, Device/Lefterts/Lvents, Device/Lefterts/Lvents, Device/Lefterts/Lvents, Device/Lvents, Device/Lve
                            Signiniogs, Auditiogs, AMDNonInteractivelserSignIniogs, AMDServicePrincipalSignIniogs, AMDNanagedIdentitySignIniogs, // Arure
                            AgureActivity,
                            // Defender for Identity
IdentityDirectoryEvents, IdentityOpenEvents, IdentityOpenEvents,
                          // Microsoft Defender for Cloud Apps
Cloud/AppCvents, // McasShadowItReporting
                               // Defender for Office 365
                          EnsilCounts, EnsilAttachmentInfo, EnsilEriEnfo, EnsilPostDeliveryEvents, // Office 365
                            OfficeActivity,
                              // Sentinel
                               ThreatIntelligenceIndicator,
                              // Agure Firewall
                              AzureDiagnostics
                            Intries = count(),
                              last log minute = datetime diff("minute", now(), max(TimeGenerated)),
                             last log hours = datetime diff("hour", now(), max(TimeGenerated)),
last log days = datetime diff("day", now(), max(TimeGenerated)),
   60 by Type, ResourceType
61 | project ['TableName'] = Type,
                          Table Intries' | Entries, |

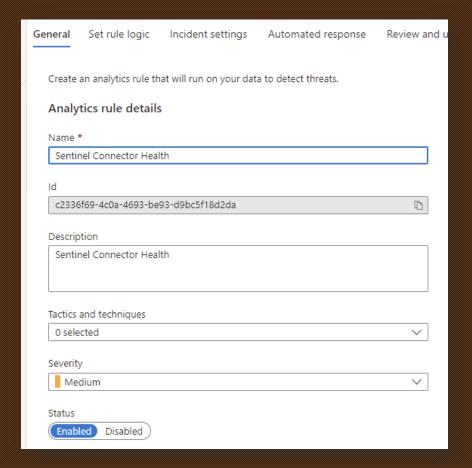
[Table Intries' | Entries, |

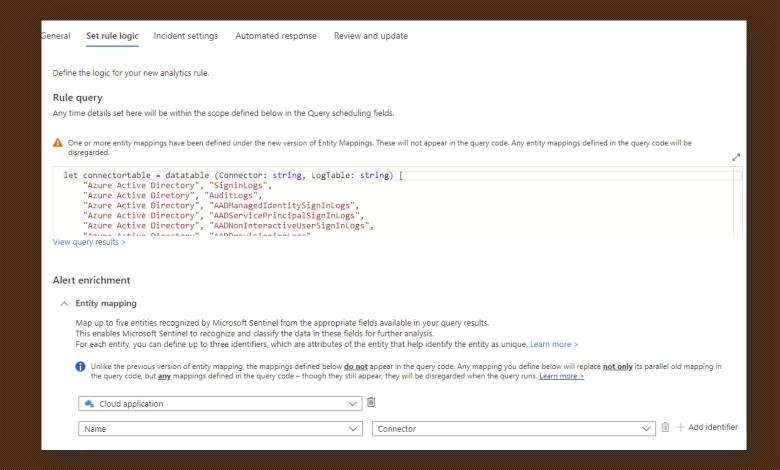
[Last Record Minutes' | East log minute, |

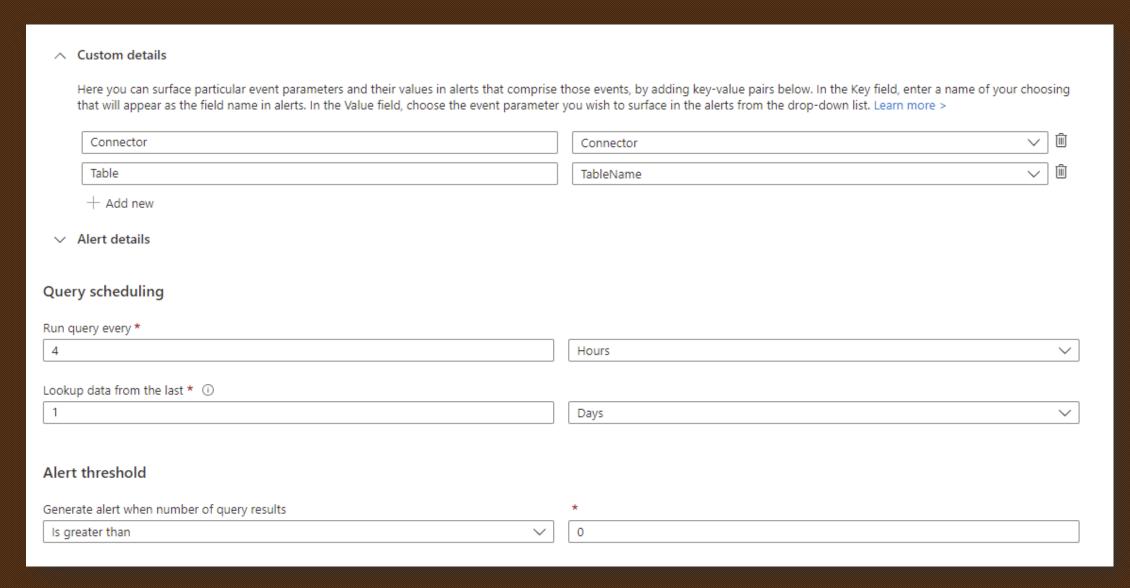
[Last Record Days' | East log deys, |

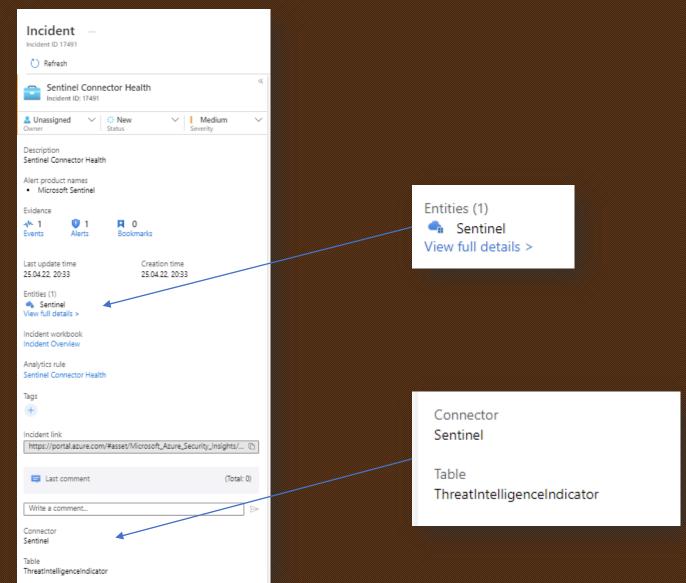
[Last Record Days' | East log deys, |
                   last logiste, ResourceType
order by 'Last Record Minutes' | desc
join kind-leftouter connectortable
                               on $left.["TableName"] == $right.logTable
    70 | join kind-leftouter connectortable
71 on $left.ResourceType == $right.logTable
                      estend Connector = strcat(Connector, Connector1)
where isnotempty(Connector)
                              last logdate,
                          Connector,
["TableName"],
                              ["Table Entries"].
                            ["Last Record Hours"],
                 ["Last Record Days"] //, ResourceType
//[where ['Last Record Days"] > 0
   52 // | where ['Last Record Days'] > 0
53 // | where ['Last Record Hours'] > 4
```

last_logdate [UTC]	Connector ↑↓	TableName	Table Entries	Last Record Minutes	Last Record Hours	Last Record Days
> 25.4.2022, 18:34:59.965	Azure	AzureActivity	174	20	0	0
> 25.4.2022, 18:51:58.179	Azure Active Directory	AADNonInteractiveUse	242'579	3	0	0
> 25.4.2022, 18:46:06.340	Azure Active Directory	AADServicePrincipalSig	7'228	8	0	0
> 25.4.2022, 18:51:20.738	Azure Active Directory	SigninLogs	7'336	3	0	0
> 25.4.2022, 18:51:34.939	Azure Active Diretory	AuditLogs	10′958	3	0	0
> 25.4.2022, 18:51:02.000	Microsoft Defender for Cloud Apps	CloudAppEvents	1'849'503	3	0	0
> 25.4.2022, 18:51:12.548	Microsoft Defender for Endpoint	DeviceFileCertificateInfo	1'450'759	3	0	0
25.4.2022, 18:53:18.485	Microsoft Defender for Endpoint	DeviceEvents	4'701'218	1	0	0
> 25.4.2022, 18:51:57.838	Microsoft Defender for Endpoint	DevicelmageLoadEvents	1'462'322	3	0	0
> 25.4.2022, 18:53:03.361	Microsoft Defender for Endpoint	DeviceNetworkInfo	226'271	1	0	0
> 25.4.2022, 18:52:27.443	Microsoft Defender for Endpoint	DeviceNetworkEvents	2'805'723	2	0	0
> 25.4.2022, 18:51:56.174	Microsoft Defender for Endpoint	DeviceFileEvents	2'949'054	3	0	0
> 25.4.2022, 18:53:03.361	Microsoft Defender for Endpoint	DeviceInfo	82'410	1	0	0
> 25.4.2022, 18:51:43.292	Microsoft Defender for Endpoint	DeviceRegistryEvents	5'848'468	3	0	0
> 25.4.2022, 18:54:07.133	Microsoft Defender for Endpoint	DeviceProcessEvents	1'770'371	0	0	0
> 25.4.2022, 18:51:05.589	Microsoft Defender for Endpoint	DeviceLogonEvents	221'473	3	0	0
> 25.4.2022, 18:53:40.822	Microsoft Defender for Identity	IdentityDirectoryEvents	6'007	1	0	0
> 25.4.2022, 18:53:49.470	Microsoft Defender for Identity	IdentityQueryEvents	902'156	1	0	0
> 25.4.2022, 18:53:48.738	Microsoft Defender for Identity	IdentityLogonEvents	214'467	1	0	0









KQL this month

# Questions?

# Thanks for attending

