Session 7 | Advanced KQL Techniques



Session 7 | Advanced KQL Techniques

### Your | hosts

### Alex Verboon



## Gianni Castaldi





https://twitter.com/alexverboor

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

https://github.com/alexverboon

https://www.verboon.info/

<u> https://twitter.com/castello\_johnny</u>

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

https://github.com/KustoKing

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

Session 7 | Advanced KQL Techniques

# Today's | Guest Ashwin Patil



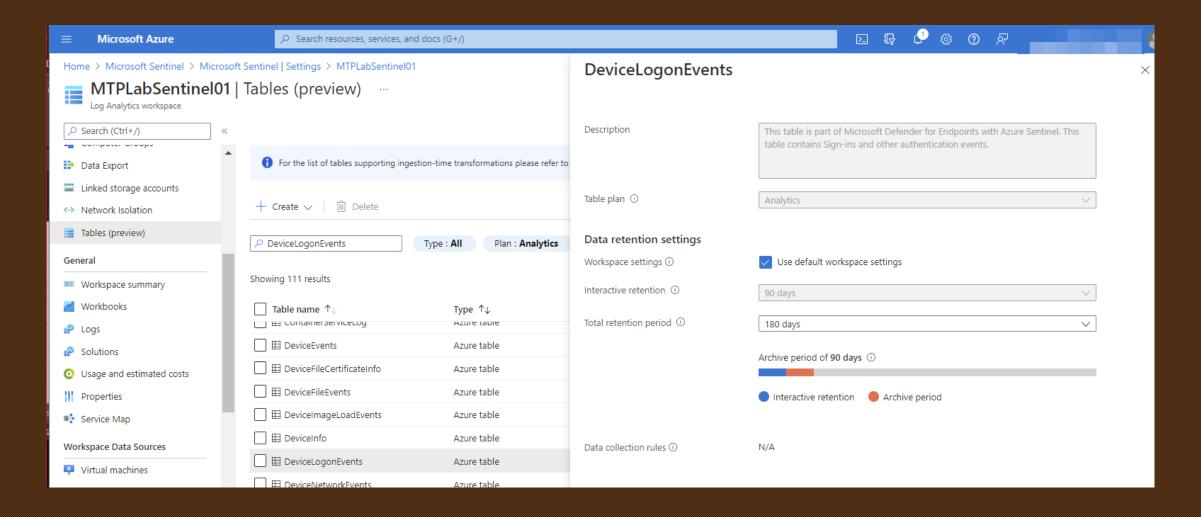
Senior Security Researcher, Microsoft Threat Intelligence Center

https://twitter.com/ashwinpatil ashwin-patil/blue-teaming-with-kql: Repository with Sample KQL Query examples for Threat Hunting (github.com)

#### Show | Agenda

- Welcome
- Whats New
  - TimeStamp TimeGenerated
  - Sentinel Data Retention, Archive & Restore
  - Guided Hunting in Microsoft 365 Defender
- Working with IOCs
- Learning KQL parse-kv
- Our KQL Guest
- What did you do with KQL this month?

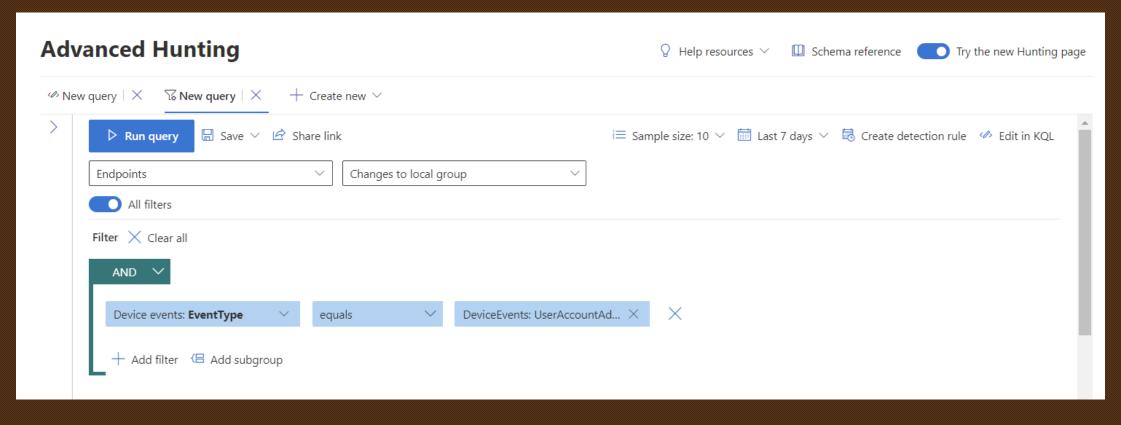
#### Sentinel – Data Retention, Archive and Restore



#### Sentinel – Data Retention, Archive and Restore

```
DeviceLogonEvents
where TimeGenerated between (datetime(2022-05-01) .. datetime(2022-08-30))
DeviceLogonEvents 8373182 SRCH
project-reorder OriginalTimeGenerated, TimeGenerated
DeviceLogonEvents 8171567 RST
where TimeGenerated between (datetime(2022-03-01) .. datetime(2022-05-30))
DeviceLogonEvents 8171567 RST
 where TimeGenerated between (datetime(2022-03-01) .. datetime(2022-05-30))
 summarize arg min(TimeGenerated,*)
DeviceLogonEvents 8171567 RST
 where TimeGenerated between (datetime(2022-03-01) .. datetime(2022-05-30))
 summarize arg_max(TimeGenerated,*)
```

#### Defender 365 Guided Hunting



https://techcommunity.microsoft.com/t5/microsoft-365-defender-blog/hunt-in-microsoft-365-defender-without-kql/ba-p/3607989

#### IOCs

### https://www.spamhaus.org/statistics/botnet-asn/

Th	The 10 Worst Botnet ASNs						
As of 30 August 2022 the world's worst botnet infected Autonomous System Numbers are:							
1	AS4134 China_Telecom_(ChinaNet)	Number of Bots: 489597					
2	<b>AS16509</b> AMAZON-02	Number of Bots: 344414					
3	AS4837 China_Unicom	Number of Bots: 160583					
4	AS45609 Bharti Airtel Ltd. AS for GPRS Service	Number of Bots: 155178					
5	AS8452 TE_Data_SAE	Number of Bots: 112857					

6	AS36947 Telecom_Algeria	Number of Bots: 97823
7	AS16135 Turkcell Iletisim Hizmetleri A.s.	Number of Bots: 96666
8	AS7713 PT_Telekomunikasi_Indonesia	Number of Bots: 92561
9	AS24560 Bharti_Airtel_LtdTelemedia_Services	Number of Bots: 78554
10	AS14618 NAME_NO_LONGER_AVAILABLE	Number of Bots: 64991

#### Learning KQL – parse-kv

- Faster
- Less complex
- Less error prone
- Cleaner KQL

#### Learning KQL – Microsoft learn

https://docs.microsoft.com/en-us/learn/browse/?expanded=azure&terms=kusto%20query%20language

Filter	kusto query language				∠ Search
Products	5 results for "kusto query language"				
Azure Data Explorer Microsoft Sentinel Microsoft 365  Roles Business Analyst Data Analyst Data Scientist Developer Security Engineer Security Operations Analyst	LEARNING PATH SC-200: Create queries for Microsoft Sentinel using Kusto Query Language (KQL)  2 hr 3 min Azure Security Operations Analyst Intermediate  ① Save	MODULE Work with data in Microsoft Sentinel using Kusto Query Language  36 min *** 4.7 (614)  Azure Security Operations Analyst Intermediate	MODULE Write your first query with Kusto Query Language  39 min ***** 4.9 (182)  Azure Data Scientist Beginner	MODULE Locate threats using adva with Microsoft 365 Defen 30 min **** 4.8 (62) Microsoft 365 Security Enginee	der
Levels  Beginner Intermediate  Subjects  Data and Al  Security	MODULE Gain insights from your data by using Kusto Query Language  48 min ***** 4.7 (28)  Azure Business Analyst Intermediate  ① Save				

#### **KQL Quest: Ashwin Patil**



Senior Security Researcher, Microsoft Threat Intelligence Center

https://twitter.com/ashwinpatil ashwin-patil/blue-teaming-with-kql: Repository with Sample KQL Query examples for Threat Hunting (github.com) What did you do with KQL this month?

IP Addresses, IP Ranges
Azure-Threat-Research-Matrix-KQL

## Questions?

## Thanks for attending

