

Session 8 | Session Title



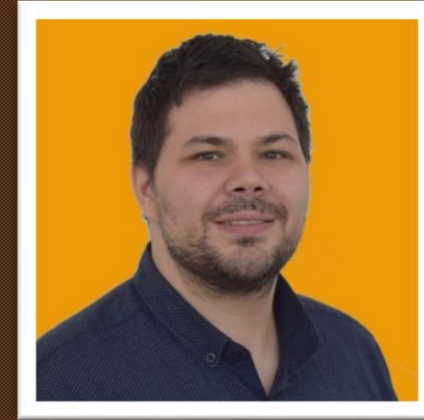
Session 8 | Session Title

# Your | hosts

## Alex Verboon



## Gianni Castaldi



<https://twitter.com/alexverboon>

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

<https://github.com/alexverboon>

<https://www.verboon.info/>

[https://twitter.com/castello\\_johnny](https://twitter.com/castello_johnny)

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

<https://github.com/KustoKing>

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

# Today's | Guest

## Mattias Borg



NinjaCat | Trusted Cyber Security Advisor | Onevinn

My blog: <https://blog.sec-labs.com/>

LinkedIn Profile: <https://www.linkedin.com/in/matteborg82>

Twitter: <https://twitter.com/MattiasBorg82>

Show | Agenda

Welcome

What's new in KQL

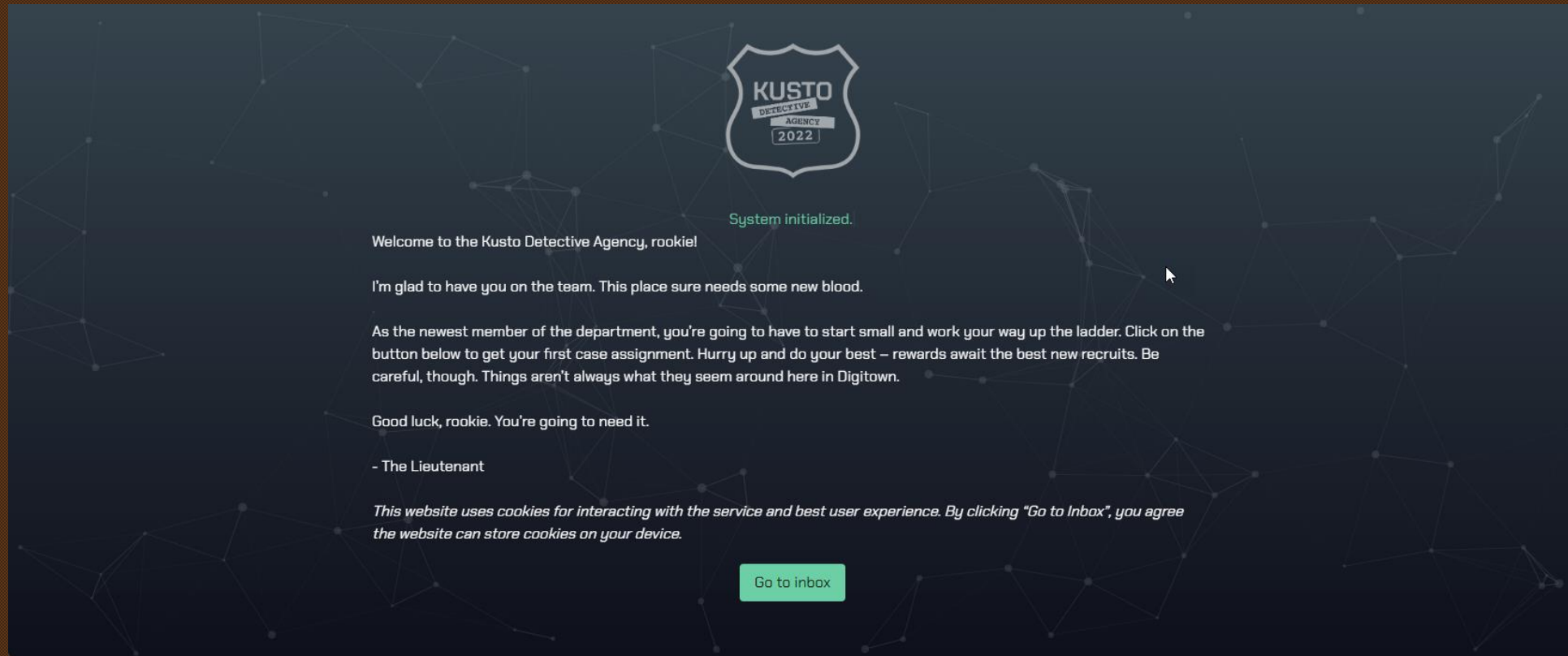
Learning KQL

Our KQL Guest

What did you do with KQL this month?

What's new in KQL

Kusto Detective - <https://detective.kusto.io/>



# What's new in KQL

KUSTO

DETECTIVE AGENCY 2022

Inbox


FAQ & About

Hints

Awards

Rookie

CURRENT AWARD




The Lieutenant

16:45 PM

Welcome to the Kusto De...

Your first task is to create a free Kusto cluster which...



The Lieutenant


to me

12 hours ago

Welcome to the Kusto Detective Agency

Welcome to the Kusto detective agency rookie! If you have already joined us before [click here](#) to log in.

Your first task is to create a free Kusto cluster which would be your primary investigation tool and to answer a simple question. To create a free Kusto cluster all you need is either a Microsoft account (MSA) or Azure Active Directory (AAD) identity. Create your cluster here: <https://aka.ms/kustofree> and copy the highlighted Cluster URI

Kusto Free Cluster

Use the free cluster to try out Azure Data Explorer. Load your data and quickly get answers to your questions for free. [Learn more](#)

Upgrade to Azure Cluster

Delete

Cluster details

Cluster URI

<https://kvc0fac9b4e53b64e53b6f.northeurope.kusto.windows.net>

Data ingestion URI

<https://ingest-kvc0fac9b4e53b64e53b6f.northeurope.kusto.windows.net>

Next, click on the "Query" button, that will take you to the query editor, alternatively you can click on the link "open in Kusto Explorer" to use the Kusto Explorer desktop tool:

Terms and Conditions

What's new in KQL

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# What's new in KQL

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# What's new in KQL

The image shows the Kusto Detective Agency 2022 interface and a KQL script in a code editor.

**Kusto Detective Agency 2022 Interface:**

- Header:** KUSTO DETECTIVE AGENCY 2022, with navigation links for Inbox, FAQ & About, Hints, and Awards.
- Left Sidebar:** CURRENT AWARD section with a KUSTO DETECTIVE AGENCY 2022 badge and a list of tasks.
- Task List:**
  - ☒ **The Lieutenant** (16:45 PM): Welcome to the Kusto Det... Your first task is to create a free Kusto cluster which w...
  - ☒ **The Lieutenant** (03:50 PM): **Rarest book gone missing!** This was supposed to be a great day for Digitown's N...
- Main Content:**
  - The Lieutenant to me** (12 hours): A notification about the current task.
  - Rarest book gone missing!**: A story about Digitown's National Library Museum and the missing rare book "De Revolutionibus Magnis Data" by Gustav Kustov.

**KQL Script in Code Editor:**

```
1 |.execute database script <|
2 // Create table for the books
3 .create-merge table Books(rf_id:string, book_title:string, publish_date:long, author:string, language:string, number_of_pages:long, weight_gram:long)
4 // Import data for books
5 // (Used data is utilizing catalogue from https://github.com/internetarchive/openlibrary )
6 .ingest into table Books ('https://kustodetectiveagency.blob.core.windows.net/digitown-books/books.csv.gz') with (ignoreFirstRecord=true)
7 // Create table for the shelves
8 .create-merge table Shelves (shelf:long, rf_ids:dynamic, total_weight:long)
9 // Import data for shelves
10 .ingest into table Shelves ('https://kustodetectiveagency.blob.core.windows.net/digitown-books/shelves.csv.gz') with (ignoreFirstRecord=true)
11
```

What's new in KQL

## Kusto Detective

## Scan operator Revisited

Suspicious executables

Get one execution

Show all

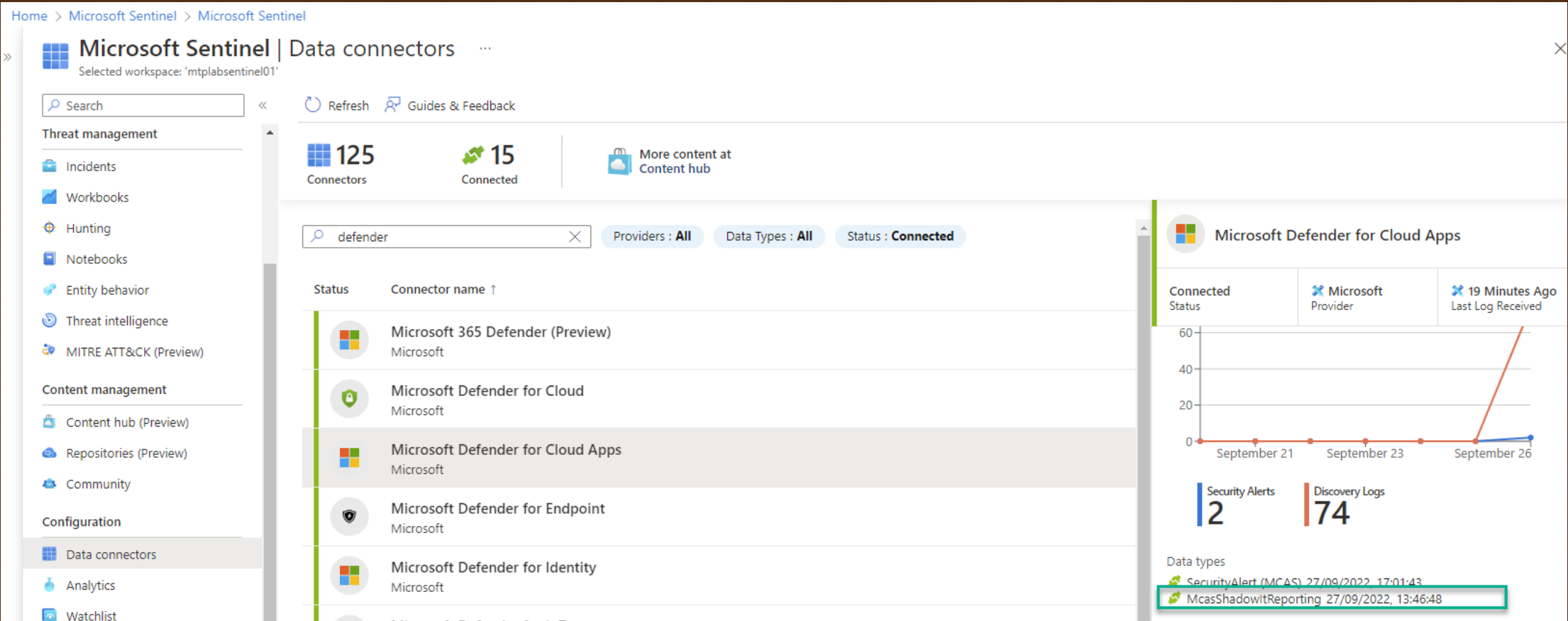
Getting starting with hunting

How do we start?

| Mattias Borg




# Microsoft Defender for Cloud Apps - McasShadowItReporting



# Microsoft Defender for Cloud Apps - McasShadowItReporting

Cloud Discovery > Microsoft OneDrive for Business



Microsoft OneDrive for Busin...

Web app

Cloud storage • Microsoft

DEPLOYED

Win10 Endpoint Users

Last 90 days

Actions

App summary

Risk and usage

Cloud app score 10

Cloud usage level High

Discovered app types

Overview

Info

Cloud app usage

Usage

Users

IP addresses

Devices

Alerts

First seen (UTC):  
Mar 05, 2021

Total active users  
2

Total IP addresses  
3

Total devices  
3

Upload traffic  
47MB

Download traffic  
37MB

Results Chart   Add bookmark								
<input type="checkbox"/>	AppName	AppScore	TotalDevices	TotalIPAddresses	Totalusers	TotalTraffic	Upl... ↑↓	DownloadMB ...
<input type="checkbox"/>	> Microsoft OneDrive for Business	10	3	3	2	84 MB	47 MB	37 MB

WdydwKtm

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# Microsoft Defender for Cloud Apps - McasShadowItReporting

FeedbackQueries

RunTime range: Set in querySaveShareNew alert ruleExportPin toFormat query

```
// mcas shadow reporting
McasShadowItReporting
where TimeGenerated > ago (90d)
where StreamName == "win10 Endpoint Users"
summarize TotalBytes = sum(TotalBytes), UploadBytes = sum( UploadBytes), DownloadBytes = sum(DownloadedBytes), Users = make_set(EnrichedUserName), Devices = make_set(MachineName), IPAddresses = make_set(IPAddress) by AppName, AppScore
extend TotalDevices = array_length(Devices)
extend TotalIPAddresses = array_length(IPAddresses)
extend Totalusers = array_length(Users)
extend UploadMB = format_bytes(UploadBytes,0,"MB")
extend TotalTraffic = format_bytes(Totalbytes,0,"MB")
extend DownloadMB = format_bytes(DownloadBytes,0,"MB")
project AppName,AppScore, TotalDevices, TotalIPAddresses, Totalusers, TotalTraffic, UploadMB, DownloadMB, IPAddresses, Devices, Users
```

ResultsChartAdd bookmark

AppName	AppScore	TotalDevices	TotalIPAddresses	Totalusers	TotalTraffic	Upl... ↑↓	DownloadMB	IPAddresses	Devices	Users
> Microsoft Live	10	2	7	3	128 MB	5 MB	123 MB	["2a02:1210:2c93:9c00:5...	["desktop-38kpna9", "...	["alex.verboon@basevision.ch", "LCLIENT07/KQL...
> Microsoft Azure	10	2	2	3	107 MB	5 MB	102 MB	["172.20.10.3", "172.31.1...	["desktop-38kpna9", "...	["alex.verboon@basevision.ch", "oa@verboon.o...
> Microsoft OneDrive for Business	10	3	3	2	84 MB	47 MB	37 MB	["172.20.10.3", "10.0.0.6", ...	["desktop-38kpna9", "...	["alex.verboon@basevision.ch", "sam@verboon....
> Microsoft SharePoint Online	10	3	5	3	81 MB	45 MB	36 MB	["192.168.1.117", "172.20...	["desktop-38kpna9", "...	["alex.verboon@basevision.ch", "sam@verboon....
> Microsoft Bing	10	5	10	6	42 MB	3 MB	39 MB	["192.168.1.117", "172.20...	["desktop-38kpna9", "...	["alex.verboon@basevision.ch", "sam@verboon....
> Microsoft MSN	10	10	17	10	61 MB	3 MB	58 MB	["192.168.1.117", "10.1.1....	["desktop-38kpna9", "...	["alex.verboon@basevision.ch", "TestMachine68/...
> Office Portal	10	3	5	3	10 MB	3 MB	7 MB	["2a02:1210:2c93:9c00:5...	["desktop-38kpna9", "...	["alex.verboon@basevision.ch", "sam@verboon....

0s 606ms | Display time (UTC +00:00) | Query details

# Microsoft Defender for Cloud Apps - McasShadowItReporting

Let's flip things, so we get traffic by user

FeedbackQueries

RunTime range: Set in querySaveShareNew alert ruleExportPin toFormat query

```
16 McasShadowItReporting
17 | where TimeGenerated > ago (90d)
18 | where StreamName == "Win10 Endpoint Users"
19 | summarize Totalbytes = sum(TotalBytes), UploadBytes = sum(UploadedBytes), DownloadBytes = sum(DownloadedBytes), Users = make_set(EnrichedUserName), Devices = make_set(MachineName), IPAddresses = make_set(IpAddress) , Apps = make_set(AppName) by
   EnrichedUserName, AppScore
20 | extend TotalDevices = array_length(Devices)
21 | extend TotalIPAddresses = array_length(IPAddresses)
22 | extend Totalusers = array_length(Users)
23 | extend TotalApps = array_length(Apps)
24 | extend UploadMB = format_bytes(UploadBytes,0,"MB")
25 | extend TotalTraffic = format_bytes(Totalbytes,0,"MB")
26 | extend DownloadMB = format_bytes(DownloadBytes,0,"MB")
27 | project EnrichedUserName, TotalDevices, TotalIPAddresses, Totalusers,TotalApps, TotalTraffic, UploadMB, DownloadMB, IPAddresses, Devices, Users, Apps, AppScore
28
29
30
```

ResultsChartAdd bookmark

	EnrichedUserName	TotalDevices	TotalIPAddresses	Totalusers	TotalApps	TotalTraffic	UploadMB	DownloadMB	IPAddresses	Devices
<input type="checkbox"/>	> alex.verboon@basevision.ch	1	8	1	27	2764 MB	171 MB	2593 MB	["2a02:1210:2c93:9c00:5892:13...	["desktop-38kpn9"]
<input type="checkbox"/>	> TestMachine68/administrator1	1	1	1	1	0 MB	0 MB	0 MB	["10.1.1.4"]	["testmachine68"]
<input type="checkbox"/>	> TestMachine68/administrator1	1	1	1	3	1 MB	0 MB	1 MB	["10.1.1.4"]	["testmachine68"]
<input type="checkbox"/>	> sam@verboon.online	3	4	1	16	249 MB	5 MB	243 MB	["172.25.133.57","172.31.15.234...	["clientdlp1","client01.4
<input type="checkbox"/>	> sam@verboon.online	3	4	1	4	27 MB	0 MB	27 MB	["172.31.15.234","172.29.203.76...	["clientdlp1","ppack01'
<input type="checkbox"/>	> sam@verboon.online	2	3	1	2	1 MB	0 MB	1 MB	["172.31.15.234","172.25.133.57...	["clientdlp1","client01.4



Security Events usage

How much do we use?

# Questions?

Thanks for attending

