

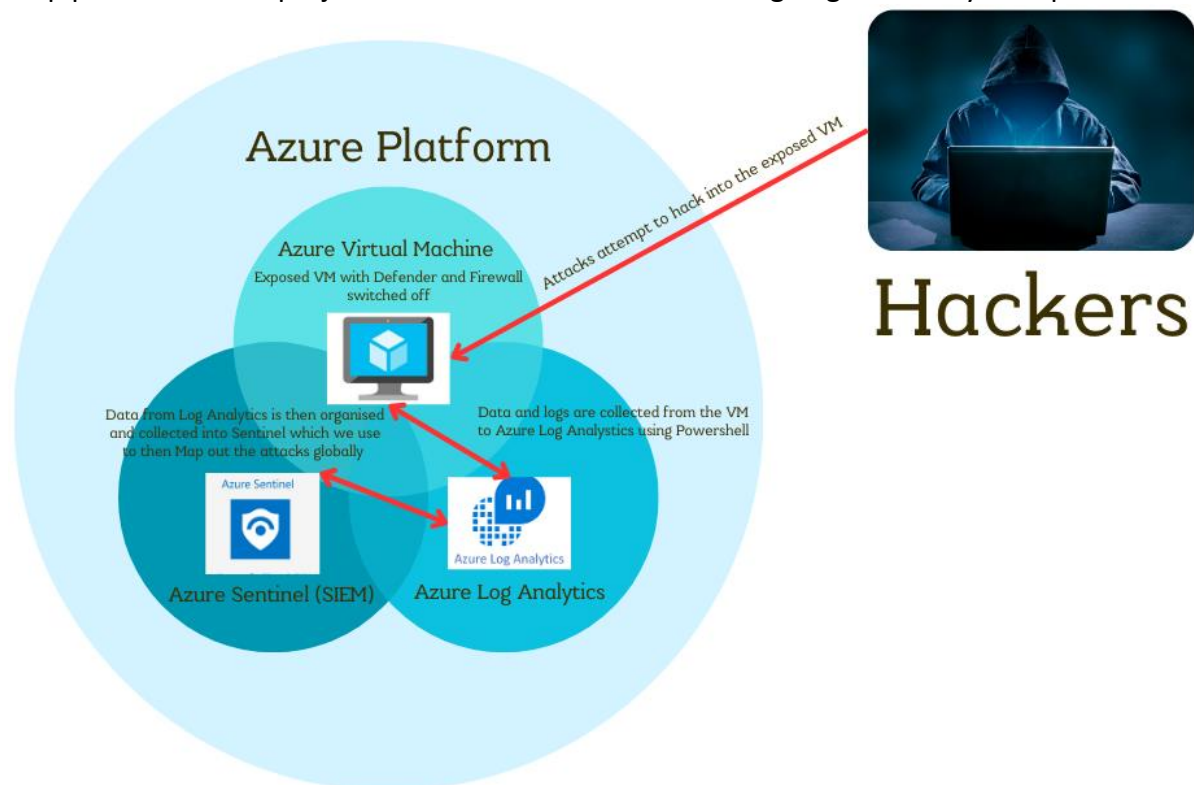
SIEM Tools Project - Azure Sentinel Global Map of Attacks

I've been eager to enhance my knowledge and experience in Azure Sentinel, given its increasing demand and adoption in the UK cybersecurity landscape. However unfortunately, Microsoft and most online IT educational platforms that I use offer very limited training resources or labs for Sentinel as Splunk seems to be the more dominant SIEM tool used within cybersecurity.

So, I therefore took advantage of Microsoft's free 1-month subscription offer and decided to configure Azure Sentinel to simulate real-world scenarios, I connected it to a live VM (virtual machine) functioning as a honeypot/decoy system. This setup allowed me to actively monitor and analyse live cyberattacks, specifically focusing on RDP brute force attacks originating from various global locations. To then enhance this further, I used a custom PowerShell script to fetch geolocation data about the attackers through their IP addresses and was able to visualise it on the Azure Sentinel Map, providing valuable threat intelligence.

This project was both intriguing and challenging as working with Azure proved to be particularly interesting but also frustrating. The Azure platform has undergone significant modifications this year alone, which meant that much of the information I found on forums and other online sources was outdated and irrelevant.

I have created a simple diagram explaining the scenario below and also outlined a step-by-step process for this project. For obvious reasons this isn't going to be very in depth.

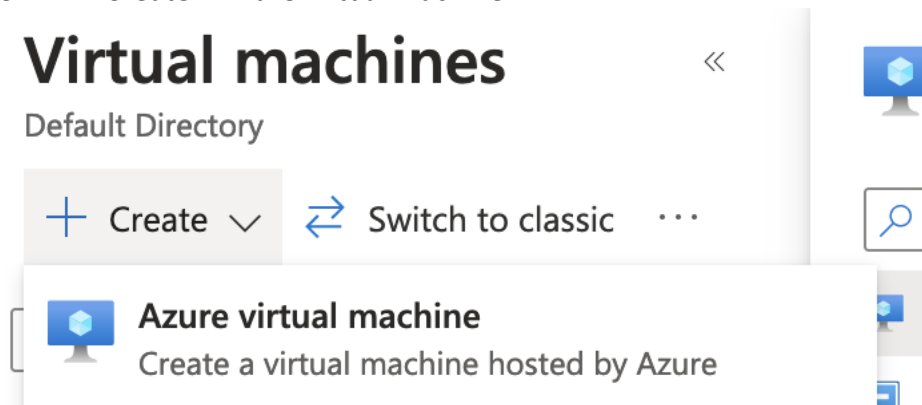


Once I had signed up for the free month subscription, I was granted access to all of the software that Azure offers. For this project we only needed the following 3.

- Virtual Machine
- Sentinel
- Log Analytics

Part 1 – Setting up the Virtual Machine (VM)

After clicking on Virtual Machines within the Azure platform the next task was to create the new VM. Create > Azure virtual machine



From there we arrive to the following, where we need to choose the subscription type, name of the VM but also its location. As you can see, I named this “Honeypot”

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Resource group * ⓘ

Instance details

Virtual machine name * ⓘ

Region * ⓘ

In regards with location I decided to use the “East US 2”, the reason being is that although I’m in the UK this VM is going to be exposed to the whole world to entice attacks and my thinking process was that the US is the most attacked nation on the planet and therefore most likely to produce better results

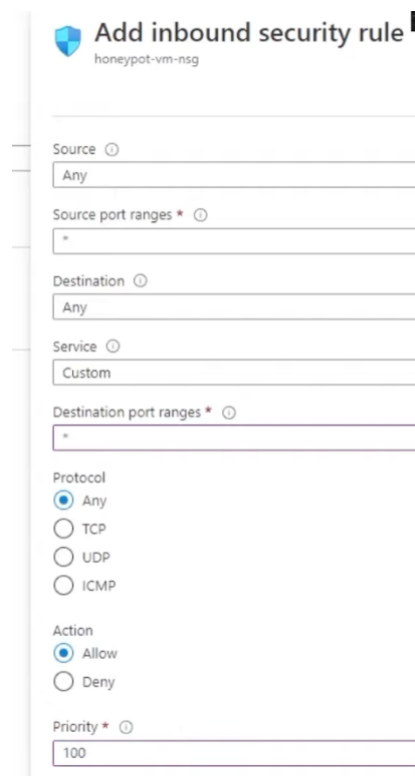
Resource group ([move](#)) : [Honeypotlab](#)

Status : Running

Location : East US 2

Subscription ([move](#)) : [Azure subscription 1](#)

For the security rules I wanted to allow all port ranges and also kept “priority” level down to a minimum



Add inbound security rule
honeypot-vm-nsg

Source ⓘ
Any

Source port ranges * ⓘ
*

Destination ⓘ
Any

Service ⓘ
Custom

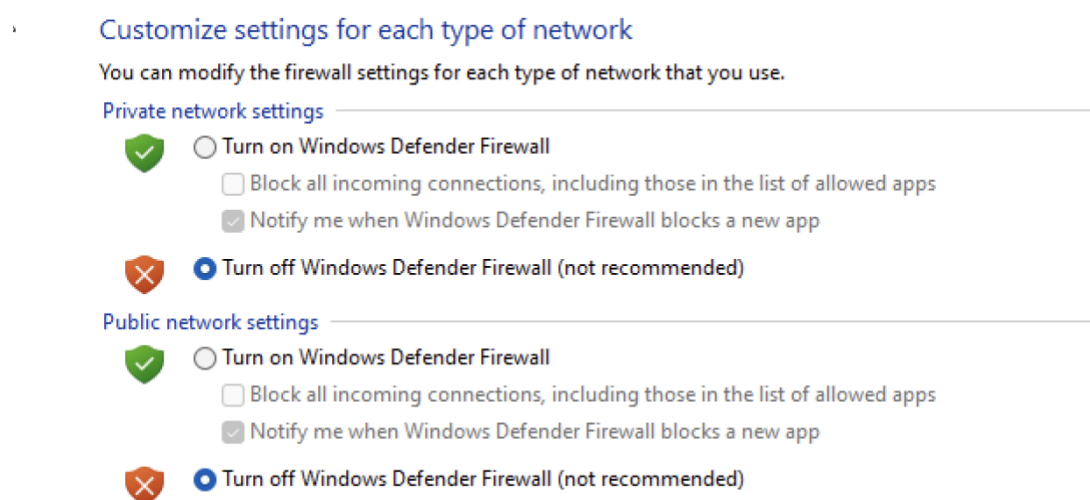
Destination port ranges * ⓘ
*

Protocol
☒ Any
☐ TCP
☐ UDP
☐ ICMP

Action
☒ Allow
☐ Deny

Priority * ⓘ
100

I also changed the Windows Defender Firewall settings as seen below, although I don't in anyway recommend doing this the objective of this project was to entice as many attacks as possible. Obviously normally the idea is to prevent attacks and therefore both these settings would be usually left “On”.



Customize settings for each type of network

You can modify the firewall settings for each type of network that you use.

Private network settings

☒ Turn on Windows Defender Firewall
☐ Block all incoming connections, including those in the list of allowed apps
☒ Notify me when Windows Defender Firewall blocks a new app

☒ Turn off Windows Defender Firewall (not recommended)

Public network settings

☒ Turn on Windows Defender Firewall
☐ Block all incoming connections, including those in the list of allowed apps
☒ Notify me when Windows Defender Firewall blocks a new app

☒ Turn off Windows Defender Firewall (not recommended)

Part 2 – Creating a Log Analytics Workspace

Again, fairly straightforward, I used the same resource group as I did in the VM section. Provided a name and also kept the region/location the same.

Create Log Analytics workspace

Basics Tags Review + Create

Information A Log Analytics workspace is the basic management unit of Azure Monitor Logs. There are specific considerations you should take when creating a new Log Analytics workspace. [Learn more](#)

With Azure Monitor Logs you can easily store, retain, and query data collected from your monitored resources in Azure and other environments for valuable insights. A Log Analytics workspace is the logical storage unit where your log data is collected and stored.

Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Resource group *
[Create new](#)

Instance details

Name *

Region *

Microsoft.LogAnalyticsOMS | Overview

Deployment

Search < Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name : Microsoft.LogAnalyticsOMS
Subscription : Azure subscription 1
Resource group : Honeypotlab

Start time : 10/3/2023, 1:08:16 PM
Correlation ID : eaea4634-b8c3-4867-b

Deployment details

Resource	Type	Status
log-honeypot	Log Analytics workspace	Created

Once done we now have to go into “Microsoft Defender for Cloud”. This is so we can enable the ability to gather logs from the VM into the Log Analytics Workspace. This used to be called “Security Center” but this was one of the recent changes which changed the whole process of linking the two together.

Search microsoft defen

All Services (34) Marketplace (17) Documentation (99)

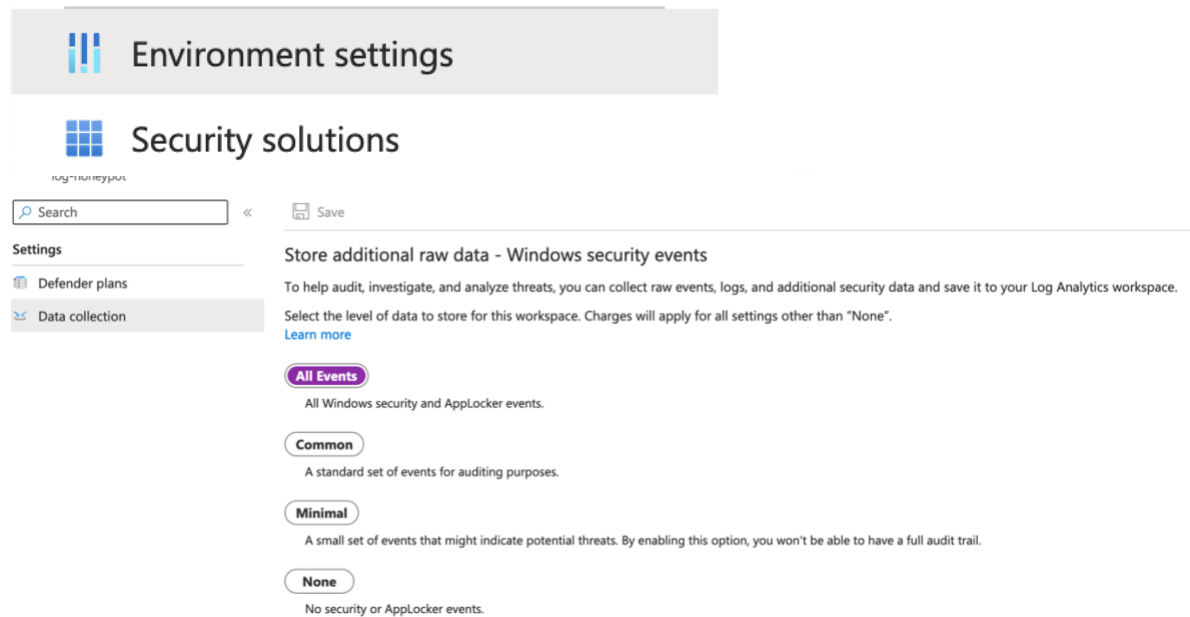
Azure Active Directory (0)

Services

- Microsoft Defender EASM
- Microsoft Defender for Cloud
- Microsoft Defender for IoT

From there we go to “Environment settings > Data collection” and I made sure that “All Events” was enabled to make sure that all the raw data and logs were collected.

Management



The screenshot shows the Azure portal interface. At the top, there's a navigation bar with "Environment settings" and "Security solutions". Below this, a search bar and a "Save" button are visible. The left sidebar shows "Settings" with "Defender plans" and "Data collection" (highlighted). The main content area is titled "Store additional raw data - Windows security events". It explains that raw events, logs, and additional security data can be collected and saved to the Log Analytics workspace. A "Learn more" link is provided. Below this, four radio button options are shown: "All Events" (selected), "Common", "Minimal", and "None". Each option has a description: "All Events" (All Windows security and AppLocker events), "Common" (A standard set of events for auditing purposes), "Minimal" (A small set of events that might indicate potential threats. By enabling this option, you won't be able to have a full audit trail.), and "None" (No security or AppLocker events).

Now we can connect Log Analytics to the VM by clicking on the “Connect” button below. This usually takes a few minutes to go through. Whilst that’s going through, we can make a start on part 3.

HoneypotVM

Virtual machine

 Connect  Disconnect  Refresh

 Not connected

Status

Not connected

Workspace Name

None

Message

VM is not connected to Log Analytics.

Part 3 – Setting up Azure Sentinel

This section is very quick, once we find “Azure Sentinel” in the search bar above. Simply find the Log Workspace that we created earlier in the section below, click on it and then click “Add” to add that to the Sentinel platform

Add Microsoft Sentinel to a workspace ...

+ Create a new workspace Refresh

Microsoft Sentinel offers a 31-day free trial. See [Microsoft Sentinel pricing](#) for more details.

Filter by name...

Workspace ↑↓	Location ↑↓	ResourceGroup ↑↓
log-honeypot	eastus2	honeypotlab

Part 4 – Logging into the new VM via RDP (remote desktop)

To log into the new VM I first needed the IP, so I went back to “Virtual Machines” within Azure and found the IP as seen below

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

Showing 1 to 1 of 1 records.

Name ↑↓	Type ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓
HoneypotVM	Virtual machine	Azure subscription 1	Honeypotlab	East US 2	Running

Operating system : Windows (Windows 10 Pro)

Size : Standard B1s (1 vcpu, 1 GiB memory)

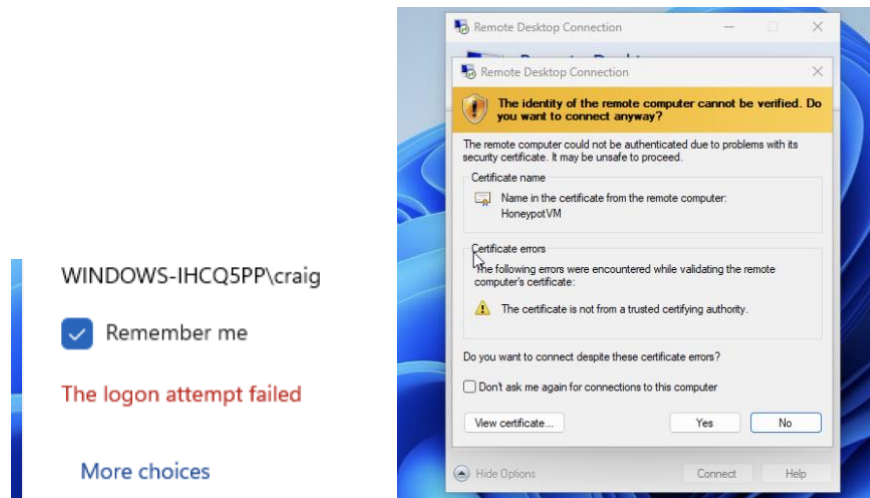
Public IP address : [20.110.229.69](#)

Virtual network/subnet : [HoneypotVM-vnet/default](#)

DNS name : [Not configured](#)

Health state : -

Using this IP, I was able to log into the VM. I accidentally used the wrong username first time round hence why the log in initially failed, however once In I was able to make my way to “Event Viewer”

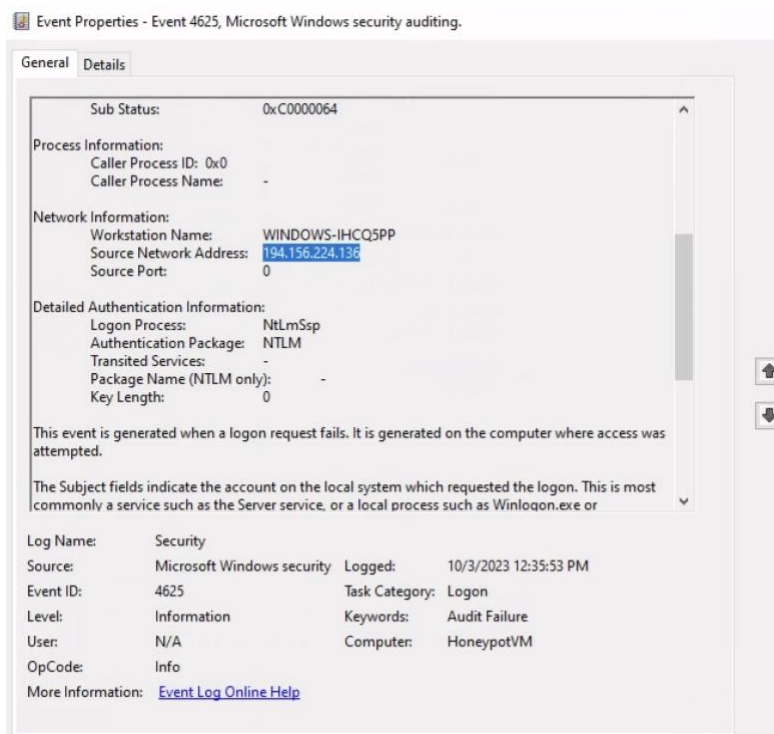


Now the objective of this project is to have our Virtual Machine attacked whilst registering this information and having it marked on our global map on Sentinel. In order to do this, we first need the EventID for “failed logins”. We will be using this in the Powershell script to provide all the important information and data from each failed attempt. The Failed Login EventID is 4625

PM	Micros...	4624	Logon
PM	Micros...	4625	Logon

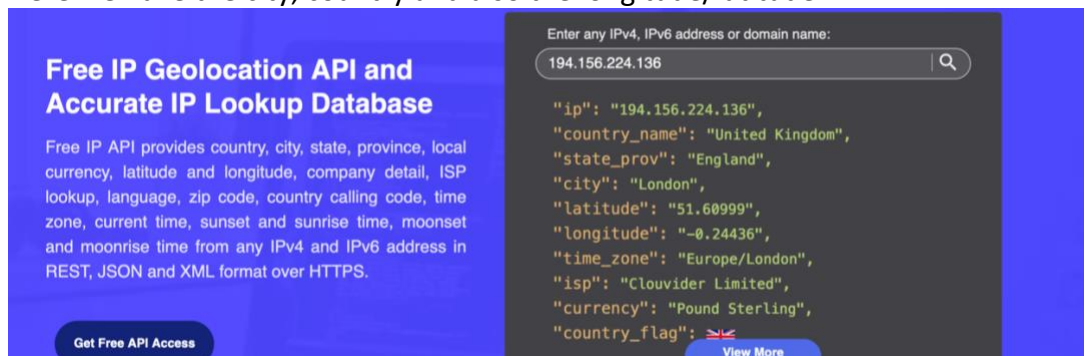
Here we can see my initial failed attempt registered within Event Viewer. The EventID is as shown above and below as 4625. Furthermore, you can also see some important data being collected, workstation name and IP address. The IP highlighted is the one I used in this failed login attempt. Now unfortunately Event Viewer doesn't provide longitude or latitude data of where the IP originated from however lots of third-party sites offer this type of service.

In this case I used <https://app.ipgeolocation.io/>



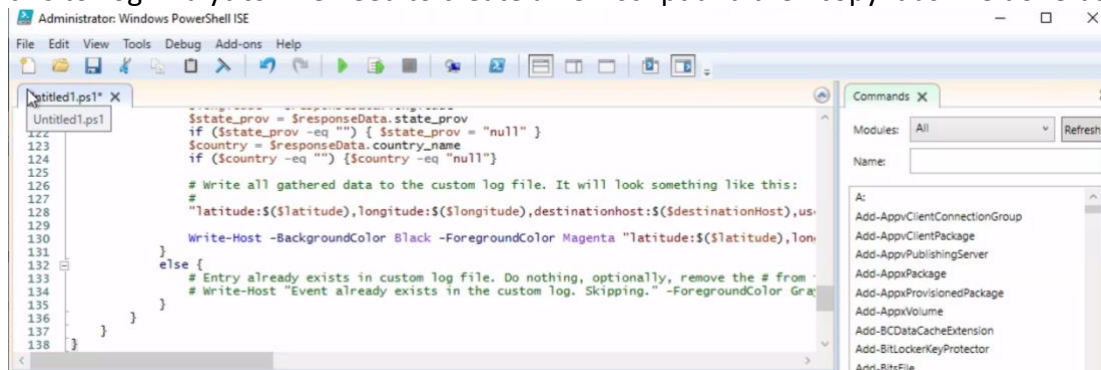
I copied the IP above and inserted it into <https://app.ipgeolocation.io/>. You can see the information that was gathered just from that 1 IP address listed below

Here we have the city, country and also the longitude/latitude.



The screenshot shows the 'Free IP Geolocation API and Accurate IP Lookup Database' website. On the right, a search bar contains the IP '194.156.224.136'. Below it, a JSON object displays the following data: 'ip': '194.156.224.136', 'country_name': 'United Kingdom', 'state_prov': 'England', 'city': 'London', 'latitude': '51.60999', 'longitude': '-0.24436', 'time_zone': 'Europe/London', 'isp': 'Clouvider Limited', 'currency': 'Pound Sterling', and 'country_flag': 'UK'. A 'View More' button is visible at the bottom right of the JSON output.

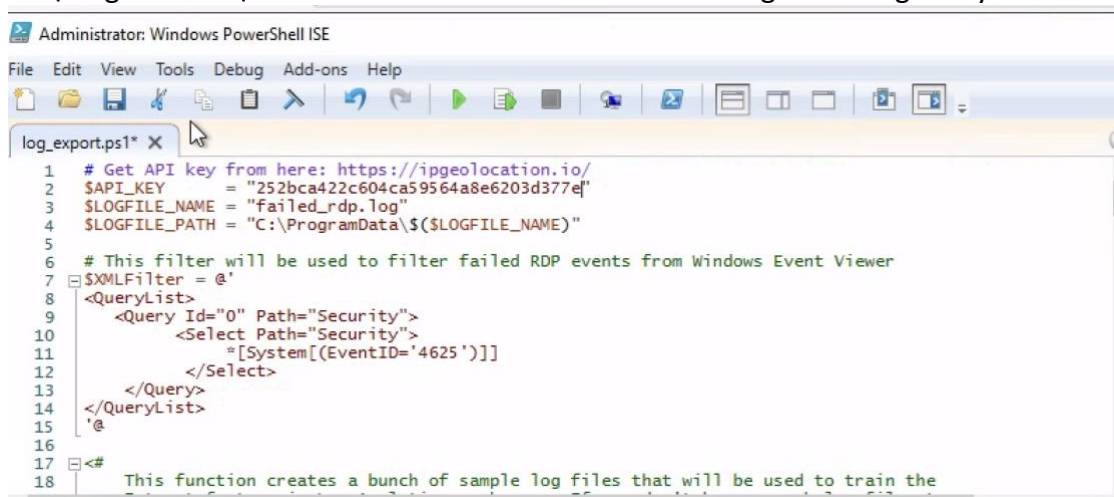
Now that we have the EventID and understand how the geolocation works, we can open up Powershell ISE. I found a script online which allows us gather this information and export this to Log Analytics. We need to create a new script and then copy it as I've done below.



The screenshot shows a PowerShell script in the Windows PowerShell ISE. The script is titled 'Untitled1.ps1' and contains the following code:

```
123 $state_prov = $responseData.state_prov
124 if ($state_prov -eq "") { $state_prov = "null" }
125 $country = $responseData.country_name
126 if ($country -eq "") { $country = "null" }
127
128 # Write all gathered data to the custom log file. It will look something like this:
129 "latitude:$($latitude),longitude:$($longitude),destinationhost:$($destinationHost),us-
130 Write-Host -BackgroundColor Black -ForegroundColor Magenta "latitude:$($latitude),lon-
131 }
132 else {
133 # Entry already exists in custom log file. Do nothing, optionally, remove the # from -
134 # Write-Host "Event already exists in the custom log. Skipping." -ForegroundColor Gra-
135 }
136 }
137 }
138 }
```

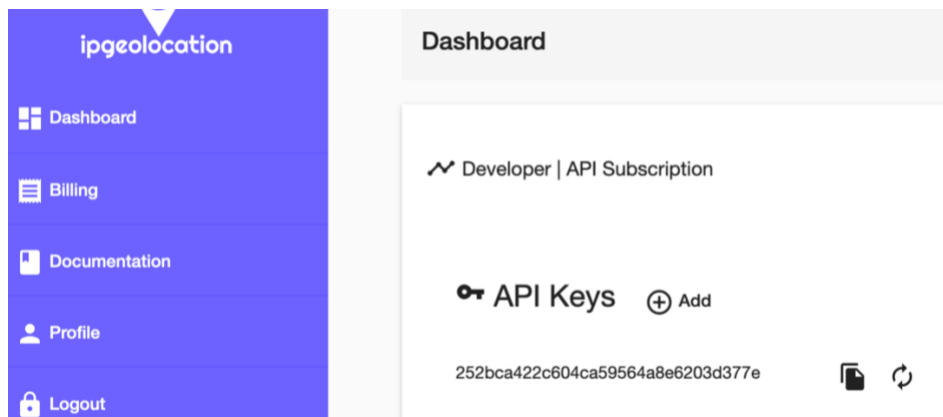
Once done I saved the script as log_export.ps1. Now we can clearly see from the script that a logfile named "failed_rdp.log" will be exported and filed in the directory "C:\ProgramData\" This is the text file that we will be using in the Log Analytics Workspace



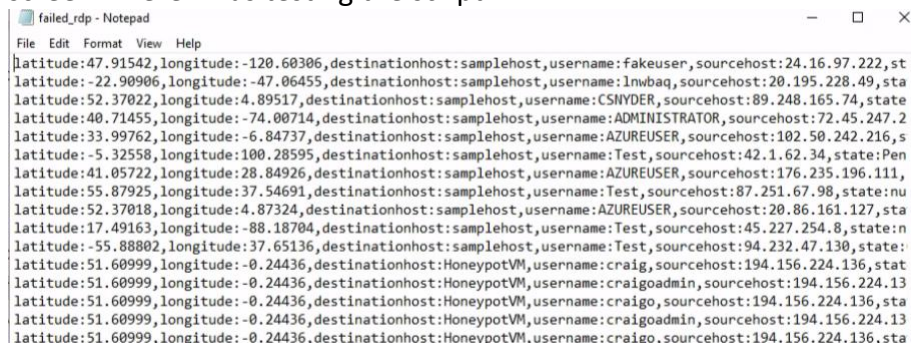
The screenshot shows a PowerShell script in the Windows PowerShell ISE. The script is titled 'log_export.ps1' and contains the following code:

```
1 # Get API key from here: https://ipgeolocation.io/
2 $API_KEY = "252bca422c604ca59564a8e6203d377e"
3 $LOGFILE_NAME = "failed_rdp.log"
4 $LOGFILE_PATH = "C:\ProgramData\$($LOGFILE_NAME)"
5
6 # This filter will be used to filter failed RDP events from Windows Event Viewer
7 $XMLFilter = @"
8 <QueryList>
9 <Query Id="0" Path="Security">
10 <Select Path="Security">
11 * [System[(EventID='4625')]]
12 </Select>
13 </Query>
14 </QueryList>
15 "@
16
17 <#
18 This function creates a bunch of sample log files that will be used to train the
```

Furthermore, you can see my API Key listed directly above. This is where all the failed IP's will go through in order to grab that important geographical information which will later be used in Sentinel. In order for this to work you will need to provide your own API Key, you can acquire this by signing up to ipgeolocation and I believe they provide you with a free API for up to 30 days.



Heading over to the “failed_rdp.log” we can clearly see that I have already had a number of attempted RDP brute force attacks. We can also see my failed attempts at the bottom of the screen where I was testing the script.



Once the script is complete, tested and saved we can then move back into our normal system and on the Azure platform, from there we head to Log Analytics.

Part 5 – Creating Custom Logs

This was by far the most stressful stage of the whole project, initially the process has always been very simple from what I made out however with some of the huge changes that Microsoft made with the recent “update”, something ever so simple now is invariably more complicated.

From Log Analytics we go to “Create a custom log” and it is here where we insert the file name of the log that our Powershell script exports our data to within our VM. Scroll up to Part 4 for confirmation.

1 Sample 2 Record delimiter 3 Collection paths 4 Details 5 Review + Create

Upload a sample of the custom log. The wizard will parse and display the entries in this file. [Learn more](#)

Sample log

Select a sample log *

“failed_rdp.log.rtf”



This is how our data appears as seen below. Click next

\f0\fs24 \cf0 latitude:47.91542,longitude:-120.60306,destinationhost:samplehost,username:fakeuser,sourcehost:24...
latitude:-22.90906,longitude:-47.06455,destinationhost:samplehost,username:lnwbaq,sourcehost:20.195.228.49,st...
latitude:52.37022,longitude:4.89517,destinationhost:samplehost,username:CSNYDER,sourcehost:89.248.165.74,sta...
latitude:40.71455,longitude:-74.00714,destinationhost:samplehost,username:ADMINISTRATOR,sourcehost:72.45.2...
latitude:33.99762,longitude:-6.84737,destinationhost:samplehost,username:AZUREUSER,sourcehost:102.50.242.21...
latitude:-5.32558,longitude:100.28595,destinationhost:samplehost,username:Test,sourcehost:42.1.62.34,state:Pena...
latitude:41.05722,longitude:28.84926,destinationhost:samplehost,username:AZUREUSER,sourcehost:176.235.196.1...

[« Previous](#) [Next](#)

Make sure the directory path to the file is correct. Again see Part 4. Click next

✓ Sample

✓ Record delimiter

3 Collection paths

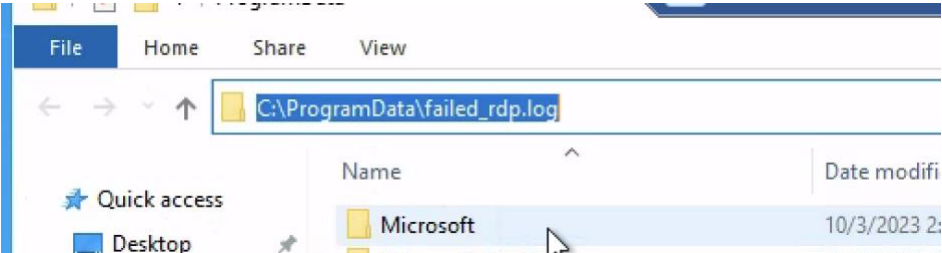
4 Details

5 Review + Create

Define one or more paths on the agent where it can locate the custom log. [Learn more](#)

Collection paths

Type	Path
Windows	C:\ProgramData\failed_rdp.log
Select type	



Provide a name for the Custom log as I have done below and then click “Review + Create”

Create a custom log ...

✓ Sample

✓ Record delimiter

✓ Collection paths

4 Details

5 Review + Create

Add a name and description to the custom log.

This name will be used for the log type, and will always end with _CL to distinguish it as a custom log. [Learn more](#)

Details

Custom log name * _CL

Description

We will have to wait for a few minutes for the custom log to finalise. Once done if we head down to logs and run the query below for a custom log then we should start seeing our results being pulled from that log file on our VM.

The screenshot shows the Microsoft Sentinel query interface. At the top, there's a 'New Query 1*' tab. Below it, the query 'log-honeypot' is selected. The 'Run' button is highlighted, and the time range is set to 'Last 12 hours'. The query results are displayed in a table with the following columns: TimeGenerated [UTC], Computer, RawData, and Type. The results show multiple entries for 'HoneypotVM' with 'Failed_RDP_with_geo' as the type. A tooltip 'Change how tables are grouped' is visible over the 'Group by: Solution' dropdown.

TimeGenerated [UTC]	Computer	RawData	Type
03/10/2023, 15:16:33.259	HoneypotVM	latitude:47.91542,longitude:-...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:-22.90906,longitude...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:52.37022,longitude:...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:40.71455,longitude:-...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:33.99762,longitude:-...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:-5.32558,longitude:1...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:41.05722,longitude:2...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:55.87925,longitude:...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:52.37018,longitude:4...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:17.49163,longitude:-...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:-55.88802,longitude...	Failed_RDP_with_geo
03/10/2023, 15:16:33.259	HoneypotVM	latitude:51.60999,longitude:-...	Failed_RDP_with_geo

Now originally we used to be able to click on the arrow in the box highlighted above and from there manually select the custom columns that we wish to use but because of all these recent changes/updates we are now no longer able to do it that way. As you can see from the image above, its the "RawData" column that we want to create custom fields from. Below we can see that within this "RawData" we have the fields, latitude, longitude, destinationhost, username, sourcehost and also country and state fields. These are the additional fields that we need to add in our custom log so that Sentinel can grab that GeoData and plot that on our Map. Otherwise its just 1 long string of random information.

latitude:41.05722,longitude:28.84926,destinationhost:samplehost,username:AZUREUSER,sourcehost:176.235.196.1...

To get around this I tried manually adding the custom fields via "Edit Schema" on the logs section however I was unsuccessful as the query although allowed me to add the fields, was unable to grab the necessary data from the section above and organise it in a way that Sentinel could understand.

Column name ↓	Description	Type	Show column
county_CF		String	<input checked="" type="checkbox"/>
destinationhost_CF		String	<input checked="" type="checkbox"/>
label_CF		String	<input checked="" type="checkbox"/>
latitude_CF		String	<input checked="" type="checkbox"/>
longitude_CF		String	<input checked="" type="checkbox"/>
sourcehost_CF		String	<input checked="" type="checkbox"/>
state_CF		String	<input checked="" type="checkbox"/>
timestamp_CF		String	<input checked="" type="checkbox"/>
username_CF		String	<input checked="" type="checkbox"/>

So I scrapped that and decided to go straight from the query. I added the query below which you can clearly see extracts the key fields I noted above from the “RawData” column. You can clearly see 9 new custom fields being taken just from the “RawData” section I showed above.

And now when I click “Run” you can see the longitude, latitude, country etc fields below grabbing the correct data.

The screenshot shows a query editor with a KQL query that extracts fields from a 'RawData' column. The query is as follows:

```
1 Failed_RDP_with_geo_CL
2 | extend username = extract(@"username:([^\,]+)", 1, RawData),
3   timestamp = extract(@"timestamp:([^\,]+)", 1, RawData),
4   latitude = extract(@"latitude:([^\,]+)", 1, RawData),
5   longitude = extract(@"longitude:([^\,]+)", 1, RawData),
6   sourcehost = extract(@"sourcehost:([^\,]+)", 1, RawData),
7   state = extract(@"state:([^\,]+)", 1, RawData),
8   label = extract(@"label:([^\,]+)", 1, RawData),
9   destination = extract(@"destinationhost:([^\,]+)", 1, RawData),
10  country = extract(@"country:([^\,]+)", 1, RawData)
11 | where destination != "samplehost"
```

Below the query editor, the 'Results' tab is active, displaying a table with the following data:

latitude	longitude	sourcehost	label	destination	country
> 51.60999	-0.24436	194.156.224.136	United Kingdom - 194.156.22...	HoneypotVM	United
> 55.75696	37.61502	185.170.144.113	Russia - 185.170.144.113	HoneypotVM	Russia
> 19.29825	-99.18516	187.150.184.148	Mexico - 187.150.184.148	HoneypotVM	Mexico
> 19.32525	-99.21400	189.190.239.253	Mexico - 189.190.239.253	HoneypotVM	Mexico

Part – 6 Testing the extracts from the query and setting up the workbook for Sentinel Mapping.

Now just to check that all is working as it should be, we can go back and purposely attempt a few failed logins to our VM to see if it is registering correctly in our query.

Once confirmed we can now head over to Sentinel > Workbooks > Create New Workbook

Now automatically Sentinel provides you with a few widgets to display your data, we want to remove these and then go to Add > Add a query



Here we want to paste I have done below the same query as I used in the log query earlier above. Run the query to make sure that the data is coming in correctly as seen below with the correct fields shown.

New workbook [↗](#) ...

log-honeypot

Done Editing Open ? Help

1 Editing query item: query - 0

Settings Advanced Settings Style </> Advanced Editor

Run Query Samples Data source Logs Resource type Log Analytics workspace log-honeypot Time Range Last 24 hours Visualization Set by q... Size Medium Column Settings

Log Analytics workspace Logs Query

```
timestamp = extract(@"timestamp:([^\,]+)", 1, RawData),
latitude = extract(@"latitude:([^\,]+)", 1, RawData),
longitude = extract(@"longitude:([^\,]+)", 1, RawData),
sourcehost = extract(@"sourcehost:([^\,]+)", 1, RawData),
state = extract(@"state:([^\,]+)", 1, RawData),
label = extract(@"label:([^\,]+)", 1, RawData),
destination = extract(@"destinationhost:([^\,]+)", 1, RawData),
country = extract(@"country:([^\,]+)", 1, RawData)
| where destination != "samplehost"
| summarize event_count=count() by latitude, longitude, sourcehost, label, destination, country
```

latitude	longitude	sourcehost	label	destination	country	event_count
51.60999	-0.24436	194.156.224.136	United Kingdom - 194.156.224.136	HoneypotVM	United Kingdom	7
55.75696	37.61502	185.170.144.113	Russia - 185.170.144.113	HoneypotVM	Russia	1
19.32525	-99.21400	189.190.239.253	Mexico - 189.190.239.253	HoneypotVM	Mexico	131
19.29825	-99.18516	187.150.184.148	Mexico - 187.150.184.148	HoneypotVM	Mexico	186

I then changed the visualization section above to “Map” as we want this Geodata to be presented to us on a global scale so we can pinpoint where these attacks are coming from.

New workbook [↗](#) ...

log-honeypot

Done Editing Open ? Help


1 Editing query item: query - 0

Settings Advanced Settings Style </> Advanced Editor

Run Query Samples Data source Logs Resource type Log Analytics workspace log-honeypot Time Range Last 24 hours Visualization Map Size Medium Map Settings

Log Analytics workspace Logs Query

```
Failed_RDP_with_geo_CL
| extend username = extract(@"username:([^\,]+)", 1, RawData),
timestamp = extract(@"timestamp:([^\,]+)", 1, RawData),
latitude = extract(@"latitude:([^\,]+)", 1, RawData),
longitude = extract(@"longitude:([^\,]+)", 1, RawData),
sourcehost = extract(@"sourcehost:([^\,]+)", 1, RawData),
state = extract(@"state:([^\,]+)", 1, RawData),
label = extract(@"label:([^\,]+)", 1, RawData),
destination = extract(@"destinationhost:([^\,]+)", 1, RawData),
country = extract(@"country:([^\,]+)", 1, RawData)
| where destination != "samplehost"
```



There are a couple of adjustments that need to be made in “Map Settings” to make sure that we have selected the right data to be pulled from the correct fields and once done that should be it.

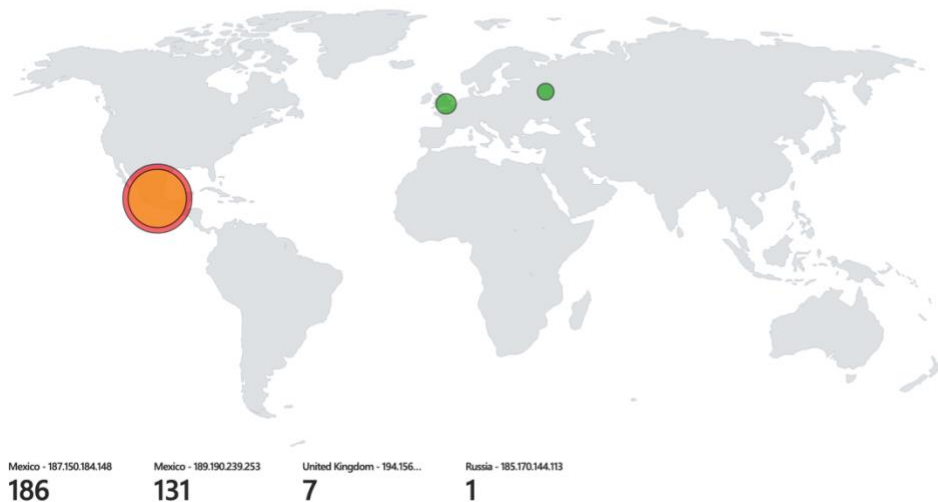
As you can see already we have some attacks being registered and plotted on our Map. If we see further down we can note the number of attacks coming through and from which country and IP. This screen shot below was taken immediately after I finished setting this up in the evening, 19:30.

[Home](#) > [Microsoft Sentinel](#) > [Microsoft Sentinel | Workbooks](#) >

Failed RDP Worldmap

log-honeypot

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Here via Powershell on the VM we can clearly see the attempted usernames being used by our attackers. A lot of these are spanish which makes sense as the majority of attacks I received have so far come from Mexico within the first hour.

Username: Cuentas

Username: \\

Username: admin

Username: usuario

Username: Administrator

Username: de

Username: Invitado

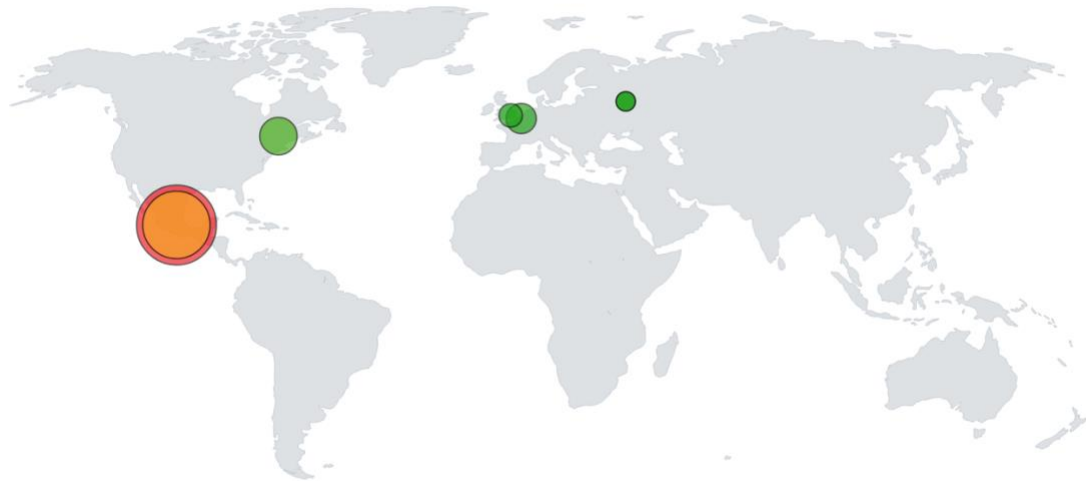
```
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:Cuentas,sourcehost:187.150.184.148,state:Mexico City,label:Mexico - 187.150.184.148,timestamp:2023-10-03 17:22:58
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:de,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:57
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:\\,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:56
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:admin,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:55
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:usuario,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:54
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:Administrator,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:53
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:52
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:Invitado,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:32
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:Invitado,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:31
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:Invitado,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:30
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:Administrador,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:29
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:Administrador,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:28
19.29825,longitude:-99.18516,destinationhost:HoneypotVM,username:Administrador,sourcehost:187.150.184.148,timestamp:2023-10-03 17:22:27
```

4 Hours later

Failed RDP Worldmap

log-honeypot

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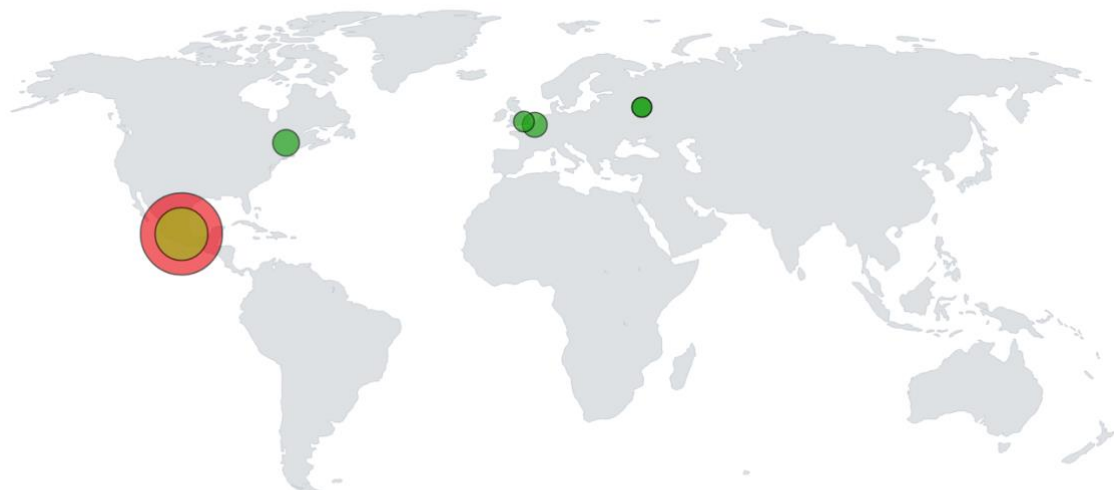
Mexico - 187.150.184.148	Mexico - 189.190.239.253	Canada - 54.39.132.191	France - 5.39.72.110	United Kingdom - 194.156...	Russia - 185.170.144.113	Russia - 62.204.41.137
186	131	35	19	7	1	1

13 hours later

Failed RDP Worldmap

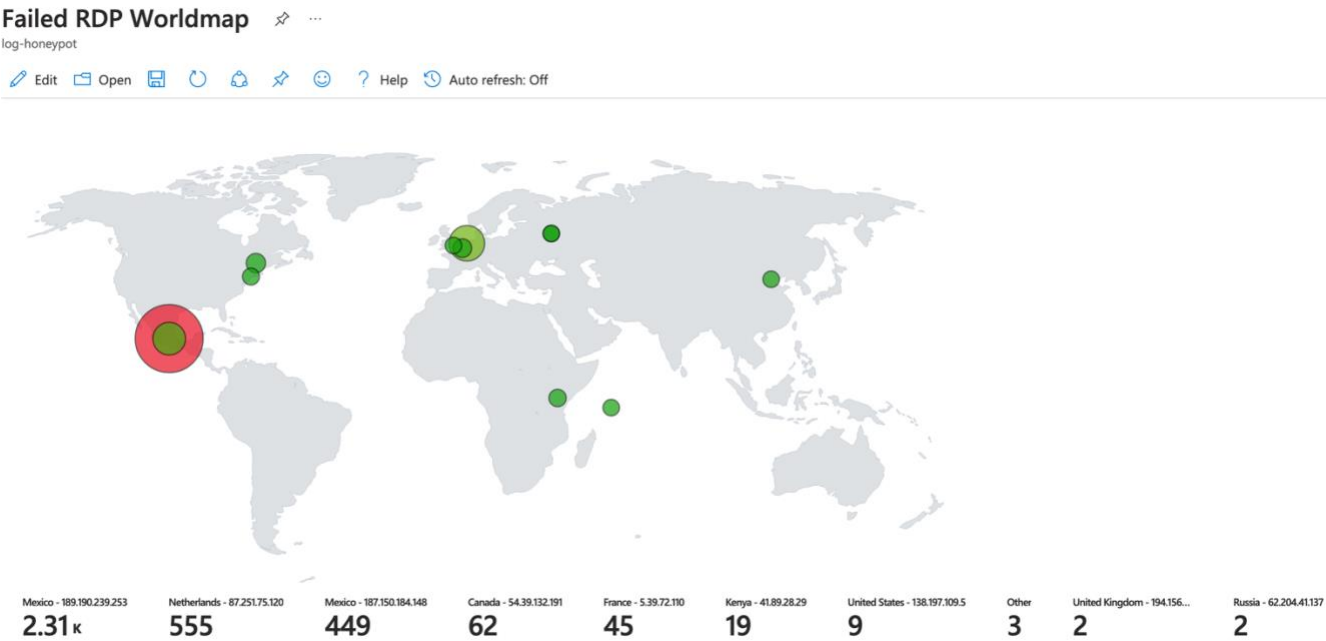
log-honeypot

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Mexico - 189.190.239.253	Mexico - 187.150.184.148	Canada - 54.39.132.191	France - 5.39.72.110	United Kingdom - 194.156...	Russia - 185.170.144.113	Russia - 62.204.41.137
1.14 k	449	62	45	7	1	1

22 hours later



34 hours later

