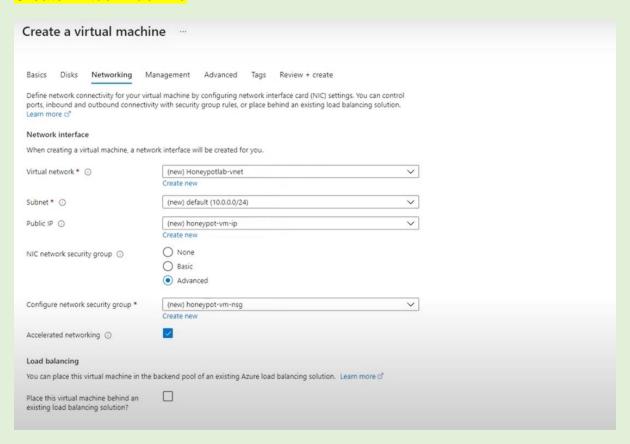
SIEM Basics with Azure Sentinel: Hands-On with

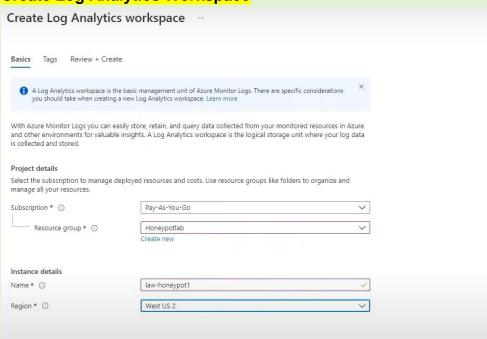
Live Cyber Attacks

Create Virtual Machine

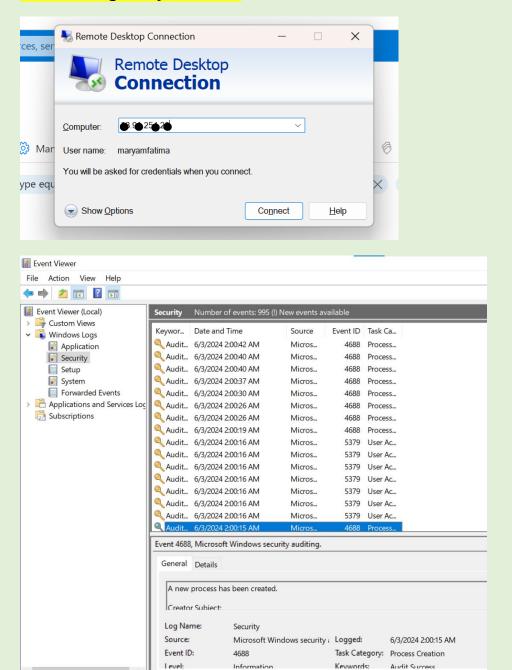


Allow all in Firewall

Create Log Analytics Workspace

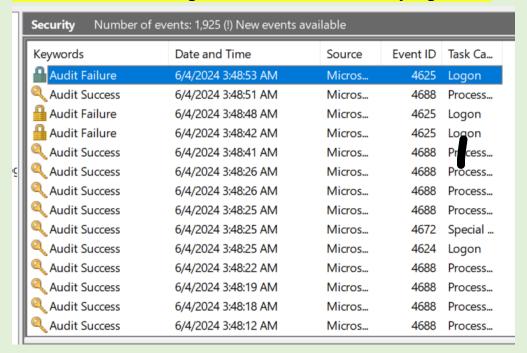


Connect Log Analytics to VM

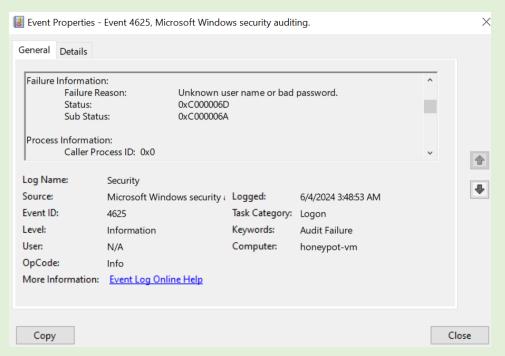


Trying to log in using wrong credentials for testing purpose

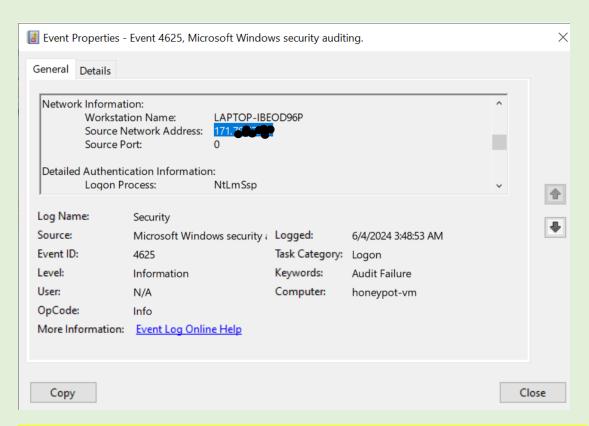
Event ID:4625 Indicating Audit failure in the security log events



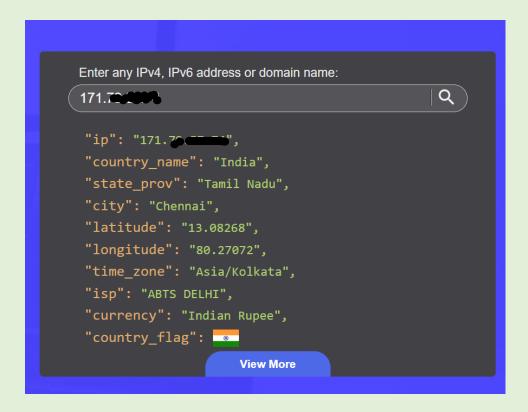
Detailed view of the log event 4625







Using the Ip address of the device logged in to find more insights using 'IP GEO LOACTION API'



More details on the ip address found that's been trying to intrude inside

TURN OFF THE WIREWALL:

Command prompt showing timed out since the firewalls are switched on still

```
Microsoft Windows [Version 10.0.22621.3593]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Maryam>ping 13.7

Pinging 13.07

with 32 bytes of data:

Request timed out.

Request timed out.

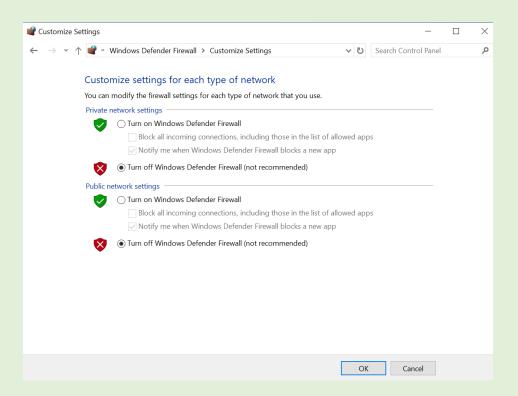
Request timed out.

Request timed out.

Ping statistics for 13.7

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Switching off the firewalls



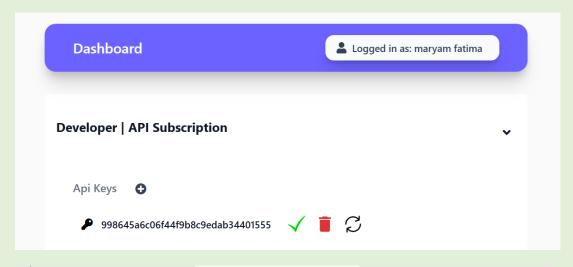
Responding to the ping command since the firewalls public and prvt settings are turned off

```
Pinging 13.01 25% 20 with 32 bytes of data:
Reply from 13.75% 20 bytes=32 time=331ms TTL=102
Reply from 13.65% 20 bytes=32 time=294ms TTL=102
Reply from 13.91 25% 21: bytes=32 time=329ms TTL=102
Reply from 13.01 25% 21: bytes=32 time=329ms TTL=102
Reply from 13.01 25% 21: bytes=32 time=357ms TTL=102

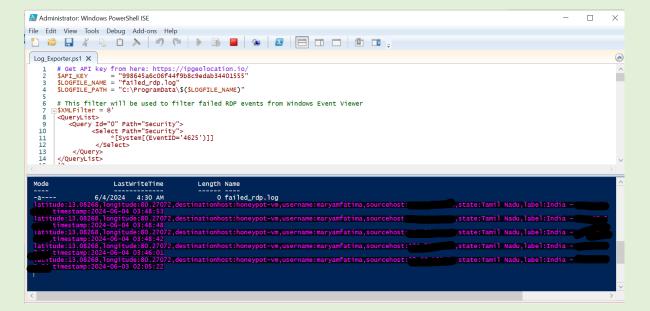
Ping statistics for 13.

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 294ms, Maximum = 357ms, Average = 327ms
```

CONNECTING THE GEOIP API WITH SHELL SCRIPT IN THE VM:



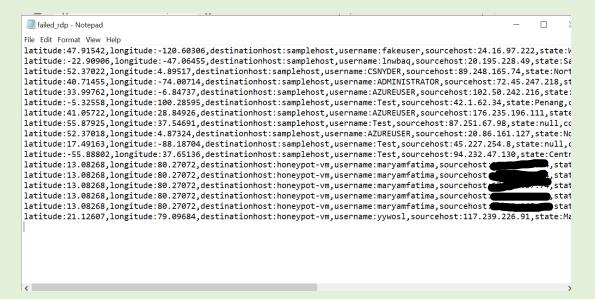
```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Log_Exporter.ps1* X
     # Get API key from here: https://ipgeolocation.io/
SAPI_KEY = "998645a6c06744f9b8c9edab34401555"
SLOGFILE_NAME = "failed_rdp.log"
SLOGFILE_PATH = "C:\ProgramData\$($LOGFILE_NAME)"
     # This filter will be used to filter failed RDP events from Windows Event Viewer  
| SXMLFilter = @'
          10
   11
12
                 </Query>
   13
14
        </QueryList>
    15
    17
        -<#
                 This function creates a bunch of sample log files that will be used to train the Extract feature in Log Analytics workspace. If you don't have enough log files to "train" it, it will fail to extract certain fields for some reason -_-. we can avoid including these fake records on our map by filtering out all logs with a destination host of "samplehost"
    18
   19
20
    23
```



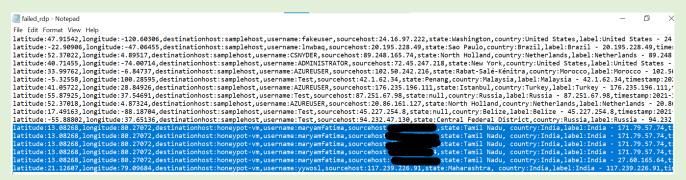
Running the shellscript after changing the API

Seeing the logs through failed RDP

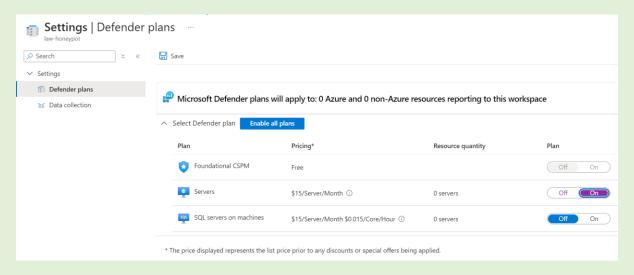
Noting down the loaction.



Logs in failed_rdp



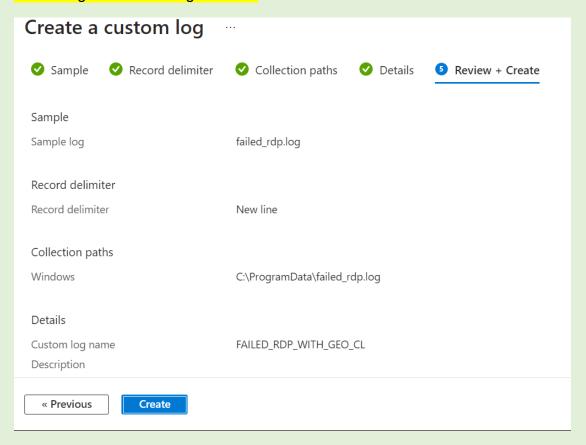
Exact logs being recorded

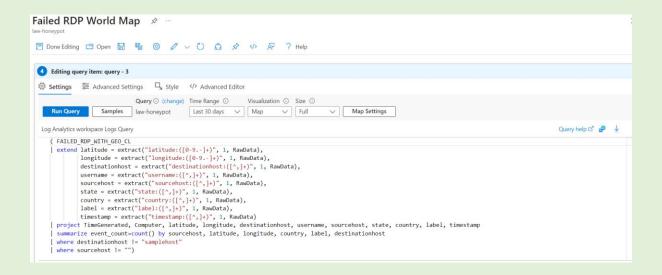


Collecting the logs in failed_rdp after connecting to the API:

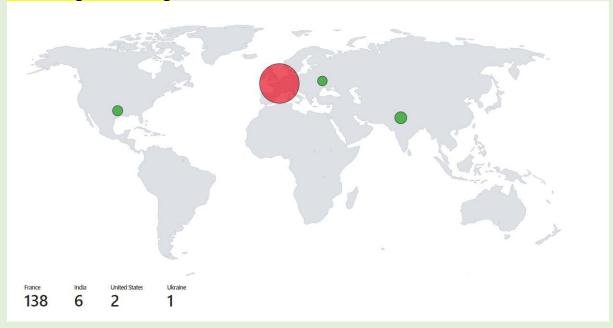


Conncting the custom log in Azure



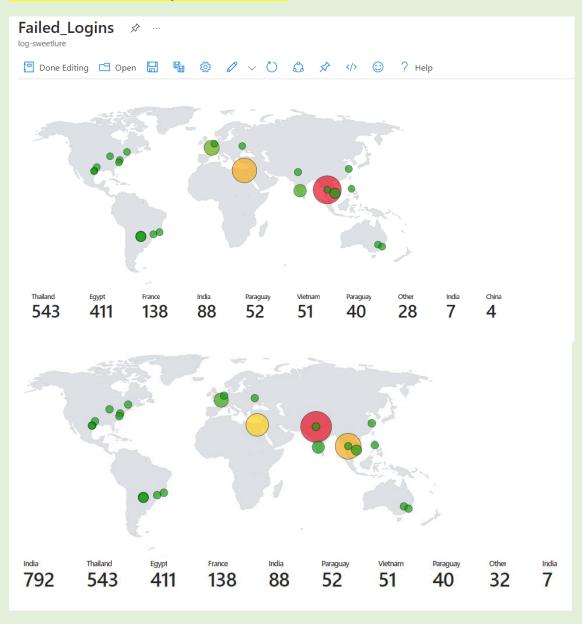


France Begins Attacking



France India Persyssy Resignary Other India Brazil Brazil Brazil Australia 138 88 52 40 14 7 4 4 3 2

The rest of the world joins the attack



Key Notes:

Log Name: Security

Source: Microsoft Windows security: Logged: 7/24/2024 6:32:09 AM

Event ID: 4625 Task Category: Logon

Level: Information Keywords: Audit Failure

User: N/A Computer: honeypot-vm

OpCode: Info

More Information: Event Log Online Help

logon (failure) 4625

Log Name: Security

Source: Microsoft Windows security i Logged: 7/24/2024 6:29:08 AM

Event ID: 4624 Task Category: Logon

Level: Information Keywords: Audit Success
User: N/A Computer: honeypot-vm

OpCode: Info

More Information: Event Log Online Help

logon (success) 4624

Code before alterations. Logs only the login failure events

Code after alterations. Logs both the success and failure