

Project 2: SIEM in Azure (a Security Analyst Skill)

Overview: A honeypot VM is created with Microsoft Azure and RDP failed logon attempts are logged using PowerShell and an IP-to-Geolocation API. With the logs a map is generated that depicts all attackers locations using Kusto Query Language (KUSTO).

Developed content for and performed the following tasks:

- Used custom PowerShell script to extract metadata from Windows Event Viewer to be forwarded to third party API in order to derive geolocation data
- Configured Log Analytics Workspace in Azure to ingest custom logs containing geographic data (latitude, longitude, state/province, and country)
- Configured Custom Fields in Logs Analytics Workspace with the intent of mapping geodata in Azure Sentinel
- Configured Azure Sentinel (Microsoft's cloud SIEM) workbook to display global attack data (RDP brute force) on a world map according to physical location and magnitude of attacks

Step 1: Setup a Virtual Machine on Microsoft Azure

Step 2: Create a Log Analytics Workspace

Step 3: Setup Microsoft Defender for Cloud

Step 4: Connect Log Analytics Workspace to VM

Step 5: Add Azure Sentinel to the Log Analytics Workspace

Step 6: Fail First Remote Desktop Connection to Virtual Machine

Step 7: Viewing Failed Logon Attempts on Windows Event Viewer

Step 8: Disable Windows Firewall to Allow ICMP Echo Requests Through

Step 9: Verify ICMP Echo Requests/Ping Request are Being Received

Step 10: Use PowerShell Script with API Key to Get Geolocation Data

Step 11: Create Custom Log in Log Analytics Workspace

Step 12: Train the Data Algorithm to Use Appropriate Field

Step 13: Ingest Logs into Azure Sentinel and Create a World Map

Step 14: Final Results

Setup a Virtual Machine on Microsoft Azure

Create a virtual machine

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Size *

Standard_B1s - 1 vcpu, 1 GiB memory (\$7.59/month) (free services eligible)

[See all sizes](#)

Administrator account

Username *

brandonadmin

Password *

.....

Confirm password *

.....

Resource group *

(New) Honeypotlab

[Create new](#)

Int

Instance details

Sel

net

Virtual machine name *

honeypot-vm

Pul

Region *

(US) West US

Avail

Keep All Defaults

No infrastructure redundancy required

Sel

Security type *

Standard

Image *

Windows 10 Pro, version 21H2 - Gen2 (free services el

[See all images](#) | [Configure VM generation](#)

Licensing

Confirm Licensing



I confirm I have an eligible Windows 10/11 license with multi-tenant hosting rights.

[Review multi-tenant hosting rights for Windows 10/11 compliance](#)

Enable Ultra Disk compatibility



Ultra disk is supported in Availability Zone(s) 1,2,3 for the selected VM size Standard_B1s.

Data disks for honeypot-vm

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN

Name

Size (GiB)

Disk type

Host caching

Delete with VM

[Create and attach a new disk](#)

[Attach an existing disk](#)

Advanced

Basics

Disks

Basics Disks **Networking** Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.

[Learn more](#)

Network interface


When creating a virtual machine, a network interface will be created for you.

Virtual network *	<div>(new) Honeypotlab-vnet</div> <div>Create new</div>
Subnet *	<div>(new) default (10.0.0.0/24)</div>
Public IP	<div>(new) honeypot-vm-ip</div> <div>Create new</div>
NIC network security group	<div><div><input type="radio"/> None</div><div><input type="radio"/> Basic</div><div><input checked="" type="radio"/> Advanced</div></div> <div>Click advanced</div> <div>Click create new</div>
Configure network security group *	<div>(new) honeypot-vm-nsg</div> <div>Create new</div>
Delete public IP and NIC when VM is deleted	<input type="checkbox"/>
Enable accelerated networking	<input type="checkbox"/> <div>The selected VM size does not support accelerated networking.</div>

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Place this virtual machine behind an existing load balancing solution? ☐

 **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

Name *

DANGER_ANY_IN

Description

Enter * to allow all ports

Click add

Add

Cancel

4

Firewall

Create network security group

Firewall is now allowing all inbound traffic

Name *

honeypot-vm-nsg

Inbound rules ⓘ

100: DANGER_ANY_IN
Any
Custom (Any/Any)

+ Add an inbound rule

Outbound rules ⓘ

No results

+ Add an outbound rule

Create a virtual machine

Basics Disks **Networking** Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

Network interface

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Virtual network * ⓘ (new) Honeypotlab-vnet
[Create new](#)

Subnet * ⓘ (new) default (10.0.0.0/24)
[Create new](#)

Public IP ⓘ (new) honeypot-vm-ip
[Create new](#)

NIC network security group ⓘ
☐ None
☐ Basic
☒ Advanced

Configure network security group * ⓘ (new) honeypot-vm-nsg
[Create new](#)

Delete public IP and NIC when VM is deleted ⓘ ☐

Enable accelerated networking ⓘ ☐ The selected VM size does not support accelerated networking.

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Place this virtual machine behind an existing load balancer ⓘ ☐

Click review and create

Review + create

< Previous

Next : Management >

[Give feedback](#)

VM is done

Create a Log Analytics Workspace

Home >

Log Analytics workspaces

Default Directory

+ Create Open recycle bin Manage view Refresh Export to CSV Open query Assign tags

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

Click create

Resource group ↑↓

Home > Log Analytics workspaces >

Create Log Analytics workspace

Basics Tags Review + Create

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 * Azure subscription 1
Resource group * Honeygotlab
[Create new](#)

Use the same resource group

Instance details

Name * law-honeypot1
Region * East US 3

Enter East US region

Enter law-honeypot1

Review and Create

LAW is done

Review + Create

« Previous

Next : Tags >

Microsoft Defender for Cloud

Home > Microsoft Defender for Cloud



Microsoft Defender for Cloud | Getting started ...

Showing subscription 'Azure subscription 1'



Upgrade

General



Overview



Getting started



Recommendations



Security alerts



Inventory



Workbooks



Community



Diagnose and solve problems

Cloud Security



Security posture



Regulatory compliance



Workload protections



Firewall Manager

Management



Environment settings



Security solutions



Workflow automation



Enable Microsoft Def Get started with a 30

Find vulnerabilities, limit you
on all your subscriptions ac



Cloud security p

Get continuous asse
recommendations w
compliance with reg

Click environment settings

ender for Cloud on 1 subscri



Name



Azure subscription 1

Home > Microsoft Defender for Cloud | Environment settings > Settings | Defender plans

law-honeypot1

Search (Ctrl+/) Save

Settings

- Defender plans
- Data collection

Microsoft Defender plans will apply to: 0 Azure and 0 non-Azure resources reporting to this workspace

Select Defender plan by resource type **Enable all**

Plan	Pricing	Resource quantity	Plan
Cloud Security Posture Management	Free		On Off
Servers	\$15/Server/Month ⓘ	0 servers	On Off
SQL servers on machines	\$15/Server/Month \$0.015/Core/Hour ⓘ	0 servers	On Off

Enable servers

Disable SQL Servers

Home > Microsoft Defender for Cloud | Environment settings > Settings | Data collection

law-honeypot1

Search (Ctrl+/) Save

Settings

- Defender plans
- Data collection

Store additional data - Windows security events

To help audit, investigate, and analyze threats, you can collect raw events, logs, and additional security data and save it to your Log Analytics workspace.

Select the level of data to store for this workspace. Charges will apply for all settings other than "None".

[Learn more](#)

☒ **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.

☐ **None**

No security or AppLocker events.

Click all events

Click Data collection

Microsoft Defender for Cloud is Done

Connect Log Analytics Workspace to VM

Home > Log Analytics workspaces > Log Analytics work...
Default Directory
+ Create Open recycle bin ...
Filter for any field...
Name ↑↓
law-honeypot1

law-honeypot1
Log Analytics workspace
Search (Ctrl+ /)
Workspace summary
Workbooks
Logs
Solutions
Usage and estimated costs
Properties
Service Map
Workspace Data Sources
Virtual machines
Storage accounts logs
System Center
Azure Activity log
Scope Configurations (Preview)

Click VMs

Home > Log Analytics workspaces > law-honeypot1 | Virtual machines >

honeypot-vm

Virtual machine

Connect Disconnect Refresh

Click Connect

Status

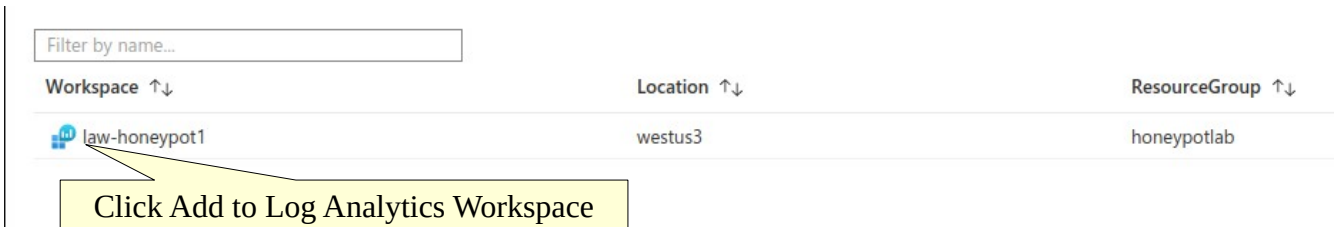
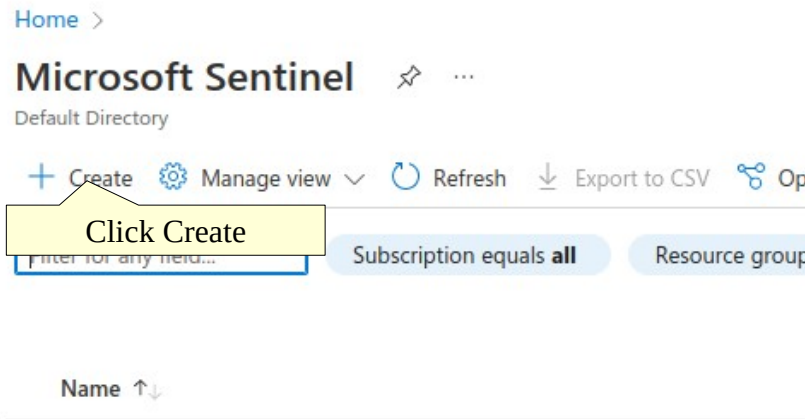
This workspace

Workspace Name

law-honeypot1

Message

Add Azure Sentinel to the Log Analytics Workspace



Fail First Remote Desktop Connection to Virtual Machine Then Correctly Login

Fail a Remote desktop to VM's IP address

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

Status : Running

Location : West Europe

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

Subscription ID : 6bd2883d-b370-4bab-b1e7-29f00392cd58

Tags ([edit](#)) : [Click here to add tags](#)

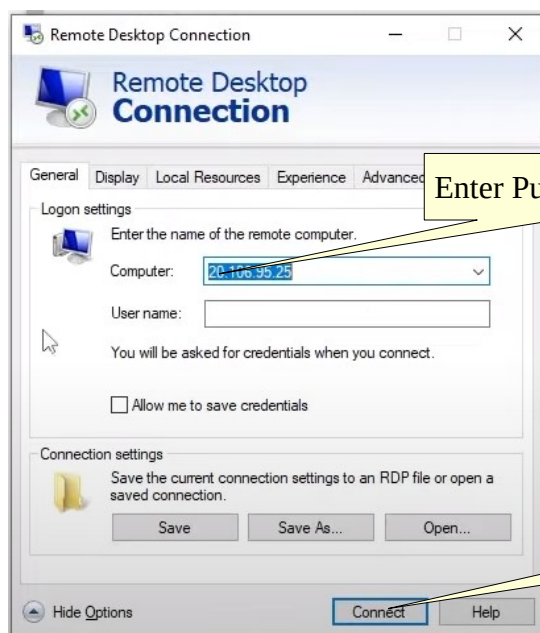
Operating system : Windows (Windows 10 Pro)

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

Public IP address : [20.229.219.37](#)

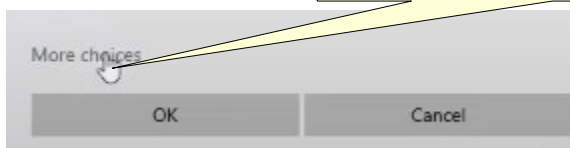
Virtual network/subnet : [Honeypotlab-vnet/default](#)

DNS name : [Not configured](#)

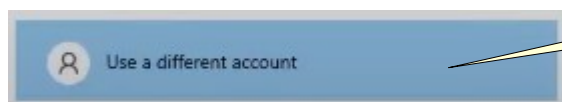


Enter Public IP address

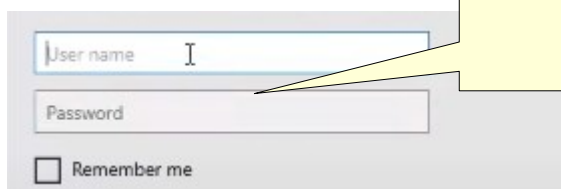
Click connect



Click more choices



Click use a different account



Fail the first logon
Then correctly login



Viewing Failed Logon Attempts on Windows Event Viewer

The Powershell script send 4625 Event IDs from Event Viewer to the geolocation API

Account For Which Logon Failed:

Security ID: NULL SID
Account Name: test
Account Domain: honeypot-vm

Failure Information:

Failure Reason: Unknown user name or bad password.
Status: 0xC000006D
Sub Status: 0xC0000064

Process Information:

Caller Process ID: 0x0
Caller Process Name: -

Network Information:

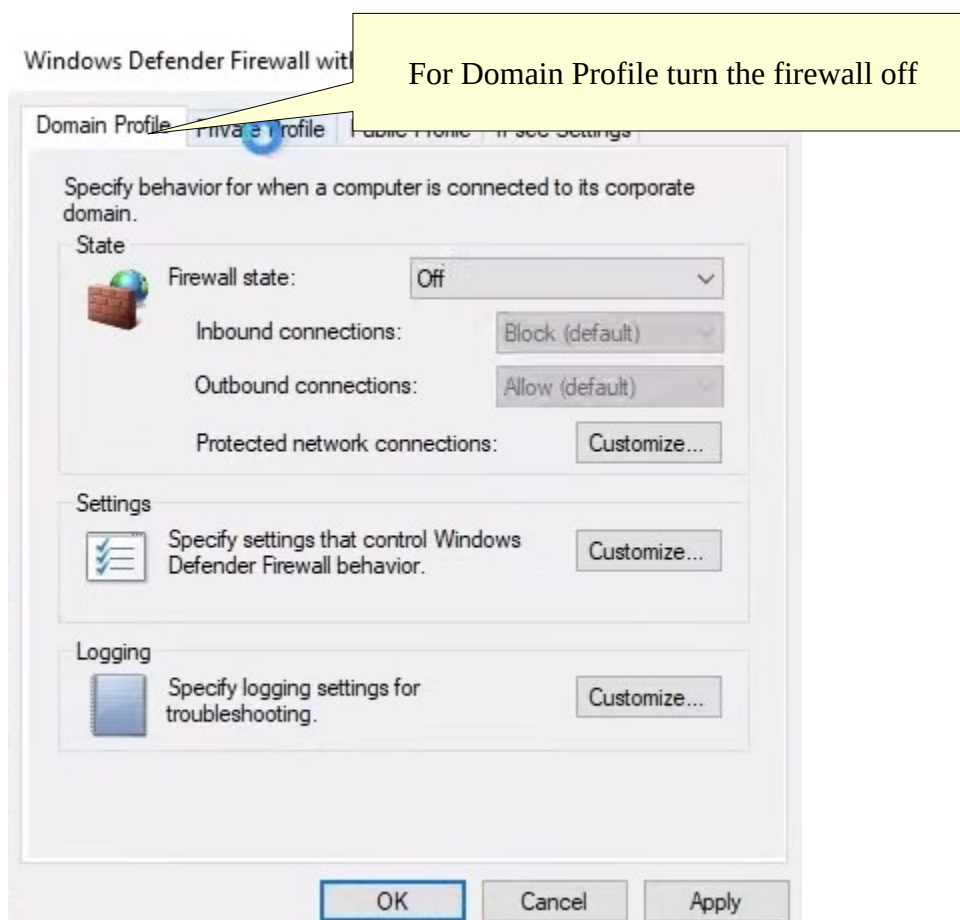
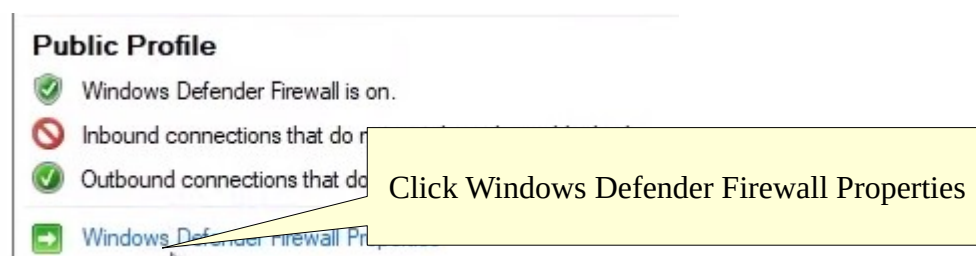
Workstation Name: WIN-JSIUE814SFS
Source Network Address: 153.33.56.233
Source Port: 0

Audit Failure 9/17/2022 9:30:43 PM

Audit Failure 9/17/2022 9:48:30 PM

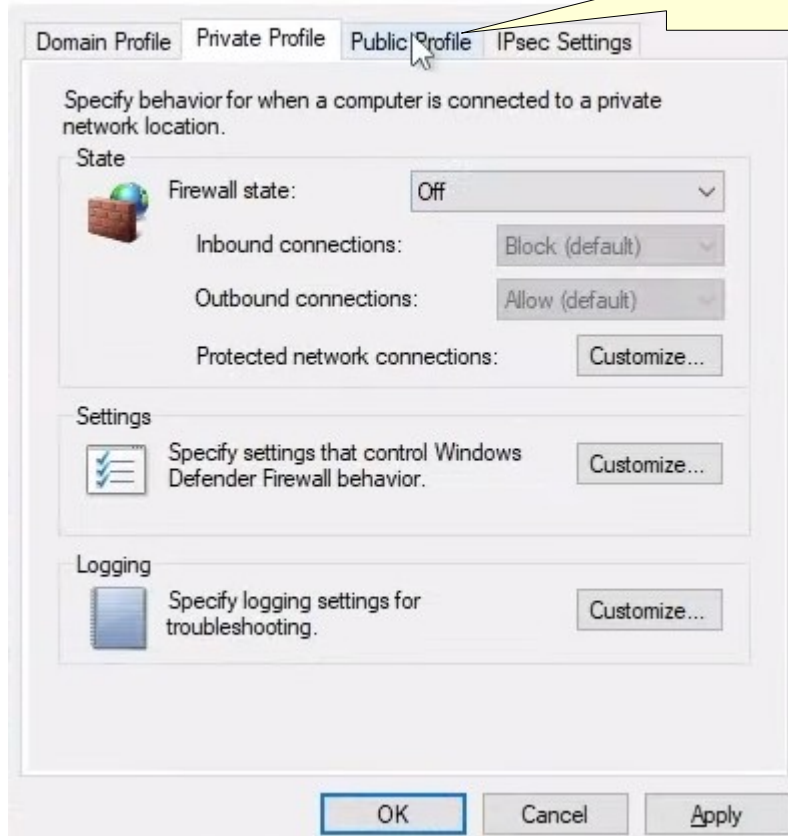
Event ID	Task Ca...
4672	Special...
4624	Logon
4625	Logon

Disable Windows Firewall to Allow ICMP Echo Requests Through



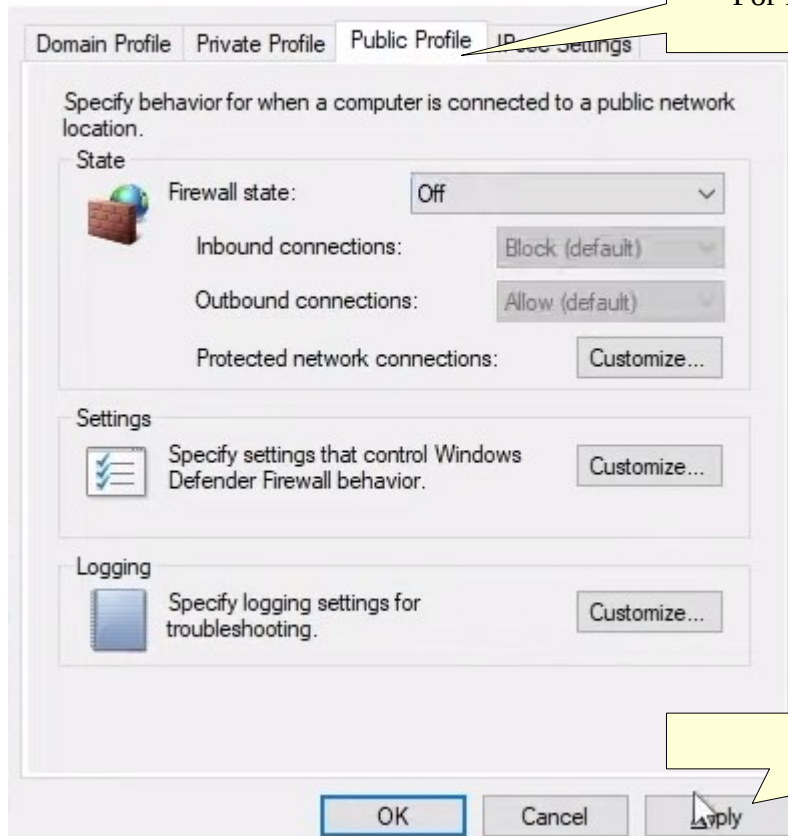
Windows Defender Firewall with Advanced Security on Local

For Private Profile turn the firewall off



Windows Defender Firewall with Advanced Security on Local

For Public Profile turn the firewall off



Apply the settings

Verify ICMP Echo Requests/Ping Request are Being Received

```
C:\Users\bdn24>ping 20.229.219.37 -t

Pinging 20.229.219.37 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
```

Before Firewall is disabled

```
C:\Users\bdn24>ping 20.229.219.37 -t

Pinging 20.229.219.37 with 32 bytes of data:
Reply from 20.229.219.37: bytes=32 time=114ms TTL=110
Reply from 20.229.219.37: bytes=32 time=114ms TTL=110
Reply from 20.229.219.37: bytes=32 time=114ms TTL=110
Reply from 20.229.219.37: bytes=32 time=114ms TTL=110
Reply from 20.229.219.37: bytes=32 time=114ms TTL=110
Reply from 20.229.219.37: bytes=32 time=114ms TTL=110

Ping statistics for 20.229.219.37:
    Packets: Sent = 6, Received = 6, Lost = 0 (0% loss),
```

After Firewall is disabled

PowerShell Script with API Key to Get Geolocation Data

Administrator: Windows PowerShell ISE

File Edit View Tools Debug Add-ons Help

Log_Exporter.ps1 X

1 # Get API Key
2 \$API_KEY
3 \$LOGFILE_NAME
4 \$LOGFILE_PATH
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
19 Extract feature in Log Analytics workspace. If you don't have enough log files to
20 "train" it, it will fail to extract certain fields for some reason -.-.
21 We can avoid including these fake records on our map by filtering out all logs with
22 a destination host of "samplehost"
23 #
24 Function write-Sample-Log() {
25 "latitude:47.91542,longitude:-120.60306,destinationhost:samplehost,username:fakeuser,sourcehost:24.16.97.222,state:Washington,country:United States,label:United S
26 "latitude:-22.90906,longitude:-47.06455,destinationhost:samplehost,username:lnwbaq,sourcehost:20.195.228.49,state:Sao Paulo,country:Brazil,label:Brazil - 20.195.2
27 "latitude:52.37022,longitude:4.89517,destinationhost:samplehost,username:CSNYDER,sourcehost:89.248.165.74,state:North Holland,country:Netherlands,label:Netherland
28 "latitude:40.71455,longitude:-74.00714,destinationhost:samplehost,username:ADMINISTRATOR,sourcehost:72.45.247.218,state:New York,country:United States,label:Unite
29 "latitude:33.99762,longitude:-6.84737,destinationhost:samplehost,username:AZUREUSER,sourcehost:102.50.242.216,state:Rabat-Salé-Kénitra,country:Morocco,label:Moroc
30 "latitude:-5.32558,longitude:100.28595,destinationhost:samplehost,username:Test,sourcehost:42.1.62.34,state:Penang,country:Malaysia,label:Malaysia - 42.1.62.34,ti
31 "latitude:41.05722,longitude:28.84926,destinationhost:samplehost,username:AZUREUSER,sourcehost:176.235.196.111,state:Istanbul,country:Turkey,label:Turkey - 176.23
32 "latitude:55.87925,longitude:37.54691,destinationhost:samplehost,username:Test,sourcehost:87.251.67.98,state:null,country:Russia,label:Russia - 87.251.67.98,times
33 "latitude:52.37018,longitude:4.87324,destinationhost:samplehost,username:AZUREUSER,sourcehost:20.86.161.127,state:North Holland,country:Netherlands,label:Netherla
34 "latitude:17.49163,longitude:-88.18704,destinationhost:samplehost,username:Test,sourcehost:45.227.254.8,state:null,country:Belize,label:Belize - 45.227.254.8,time
35 "latitude:-55.88802,longitude:37.65136,destinationhost:samplehost,username:Test,sourcehost:94.232.47.130,state:Central Federal District,country:Russia,label:Russi
36 }
37
38 # This block of code will create the log file if it doesn't already exist
39 if ((Test-Path \$LOGFILE_PATH) -eq \$false) {
40 New-Item -ItemType File -Path \$LOGFILE_PATH
41 write-Sample-Log
42 }
43
44 # Infinite Loop that keeps checking the Event Viewer logs.
45 while (\$true)
46 {
47 Start-Sleep -Seconds 1
48 # This retrieves events from Windows Event Viewer based on the filter
49
50 }
51 }
52 }
53 }
54 }
55 }
56 }
57 }
58 }
59 }
60 }
61 }
62 }
63 }
64 }
65 }
66 }
67 }
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81 }
82 }
83 }
84 }
85 }
86 }
87 }
88 }
89 }
90 }
91 }
92 }
93 }
94 }
95 }
96 }
97 }
98 }
99 }
100 }

Use your own API key here and run the script

Mode LastWriteTime Length Name

-a---- 9/17/2022 10:59 PM 0 failed_rdp.log
latitude:28.53823,longitude:-81.37739,destinationhost:honeybot-vm,username:test,sourcehost:153.33.56.233,state:Florida,label:United States - 153.33.56.233,timesta
mp:2022-09-17 21:48:30
latitude:28.53823,longitude:-81.37739,destinationhost:honeybot-vm,username:brandonadmin,sourcehost:153.33.56.233,state:Florida,label:United States - 153.33.56.233,timesta
mp:2022-09-17 21:39:41
latitude:28.53823,longitude:-81.37739,destinationhost:honeybot-vm,username:brandonadmin,sourcehost:153.33.56.233,state:Florida,label:United States - 153.33.56.233,timesta
mp:2022-09-17 21:32:28
latitude:28.53823,longitude:-81.37739,destinationhost:honeybot-vm,username:failfailfail,sourcehost:153.33.56.233,state:Florida,label:United States - 153.33.56.233,timesta
mp:2022-09-17 23:02:18

Create Custom Log in Log Analytics Workspace

Create a custom log ...

- 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"



latitude:47.91542,longitude:-120.60306,destinationhost:samplehost,username:fakeuser,sourcehost:24.16.97.222,state:Washington,country:latitude:-22.90906,longitude:-47.06455,destinationhost:samplehost,username:lnwbaq,sourcehost:20.195.228.49,state:Sao Paulo,country:latitude:52.37022,longitude:4.89517,destinationhost:samplehost,username:CSNYDER,sourcehost:89.248.165.74,state:North Holland,country:latitude:40.71455,longitude:-74.00714,destinationhost:samplehost,username:ADMINISTRATOR,sourcehost:72.45.247.218,state:New York,country:latitude:33.99762,longitude:-6.84737,destinationhost:samplehost,username:AZUREUSER,sourcehost:102.50.242.216,state:Rabat-Salé-Kénitlatitude:-5.32558,longitude:100.28595,destinationhost:samplehost,username:Test,sourcehost:94.232.47.130,state:Central Federal Distrlatitude:41.05722,longitude:28.84926,destinationhost:samplehost,username:Test,sourcehost:153.33.56.233,state:Florida,country:United Stateslatitude:55.87925,longitude:37.54691,destinationhost:samplehost,username:Test,sourcehost:153.33.56.233,state:Florida,country:United Stateslatitude:52.37018,longitude:4.87324,destinationhost:samplehost,username:Test,sourcehost:153.33.56.233,state:Florida,country:United Stateslatitude:17.49163,longitude:-88.18704,destinationhost:samplehost,username:Test,sourcehost:153.33.56.233,state:Florida,country:United Stateslatitude:-55.88802,longitude:37.65136,destinationhost:samplehost,username:Test,sourcehost:153.33.56.233,state:Florida,country:United Stateslatitude:28.53823,longitude:-81.37739,destinationhost:honeyiot-vm,username:brandonadmin,sourcehost:153.33.56.233,state:Florida,country:United Stateslatitude:28.53823,longitude:-81.37739,destinationhost:honeyiot-vm,username:brandonadmin,sourcehost:153.33.56.233,state:Florida,country:United Stateslatitude:28.53823,longitude:-81.37739,destinationhost:honeyiot-vm,username:failfailfail,sourcehost:153.33.56.233,state:Florida,country:United States

Contents of failed_rdp.log
This log is only a sample for the custom log

Create a custom log ...

- ✓ 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

Ensure the path to failed_rdp.log is listed from the VM

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

Create a custom log

✓ Sample ✓ Record delimiter ✓ Collection paths **Details** ⚙ 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 *

FAILED_RDP_WITH_GEO ✓
_CL

Description

Description

Train the Data Algorithm to Use Appropriate Field

Within Log Analytics Workspace extract custom fields for all of the data into: Longitude, Latitude, DestinationHost, Username, SourceHost, State, Country, Label, and Timestamp

1 FAILED_RDP_WITH_GEO_CL

Time range: Last 24 hours

Run

Results Chart Columns Display time (UTC+00:00) Group columns

Completed. Showing results from the last 24 hours.

TimeGenerated [UTC]	Computer	RawData
10/28/2021, 9:29:28.000 PM	honeypot-vm	latitude:47.91542,longitude:-120.60306,destinationhost:
		TenantId 0641efa9-b0cd-4923-b1e4-817f5b46887f
		SourceSystem OpsManager
		MG 1f5e9421-27cb-da9e-17c0-744147c72bb0
		ManagementGroupName AOI-0641efa9-b0cd-4923-b1e4-817f5b46887f
TimeGenerated [UTC]		2021-10-28T21:29:28Z

MAIN EXAMPLE			SEARCH RESULTS
FAILED_RDP_WITH_GEO_CL			-120.60306
<input type="checkbox"/> FILTER	FIELD NAME	VALUE	latitude:47.91542,longitude:-120.60306,destinationhost:samplehost,username:fakeuser,sourcehost:24.16.97.222,state:Washington,country:United States,label:United States - 24.16.97.222,timestamp:2021-10-26 03:28:29
<input type="checkbox"/>	TenantId	: 0641efa9-b0cd-4923-b1e4-817f5b46887f	
<input type="checkbox"/>	SourceSystem	: OpsManager	
<input type="checkbox"/>	ManagementGroupName	: AOI-0641efa9-b0cd-4923-b1e4-817f5b46887f	
<input type="checkbox"/>	TimeGenerated	: 2021-10-28T21:29:28Z	
<input type="checkbox"/>	Computer	: honeypot-vm	
<input type="checkbox"/>	RawData	: latitude:47.91542,longitude:-120.60306,destinationhost:samplehost,username:fakeuser,sourcehost:24.16.97.222,state:Washington,country:United States,label:United States - 24.16.97.222,timestamp:2021-10-26 03:28:29	
Additional examples			-22.90906
New - Highlight text to mark a custom field. Click on existing highlights to remove.			latitude:52.37022,longitude:4.89517,destinationhost:samplehost,username:CSNYDER,sourcehost:89.248.165.74,state:North Holland,country:Netherlands,label:Netherlands - 89.248.165.74,timestamp:2021-10-26 06:12:56
<input type="checkbox"/> RawData :			
latitude:22.90906,longitude:-47.06455,destinationhost:samplehost,username:lnwbaq,sourcehost:20.195.228.49,state:Sao Paulo,country:azil,label:Brazil - 20.195.228.49,timestamp:2021-10-26 05:46:20			-74.00714
			latitude:40.71455,longitude:-74.00714,destinationhost:samplehost,username:ADMINISTRATOR,sourcehost:72.45.247.218,state:New York,country:United States,label:United States - 72.45.247.218,timestamp:2021-10-26 10:44:07
			-6.84737
			latitude:33.99762,longitude:-6.84737,destinationhost:samplehost,username:AZUREUSER,s

Ingest Logs into Azure Sentinel and Create a World Map

1 Editing query item: query - 0

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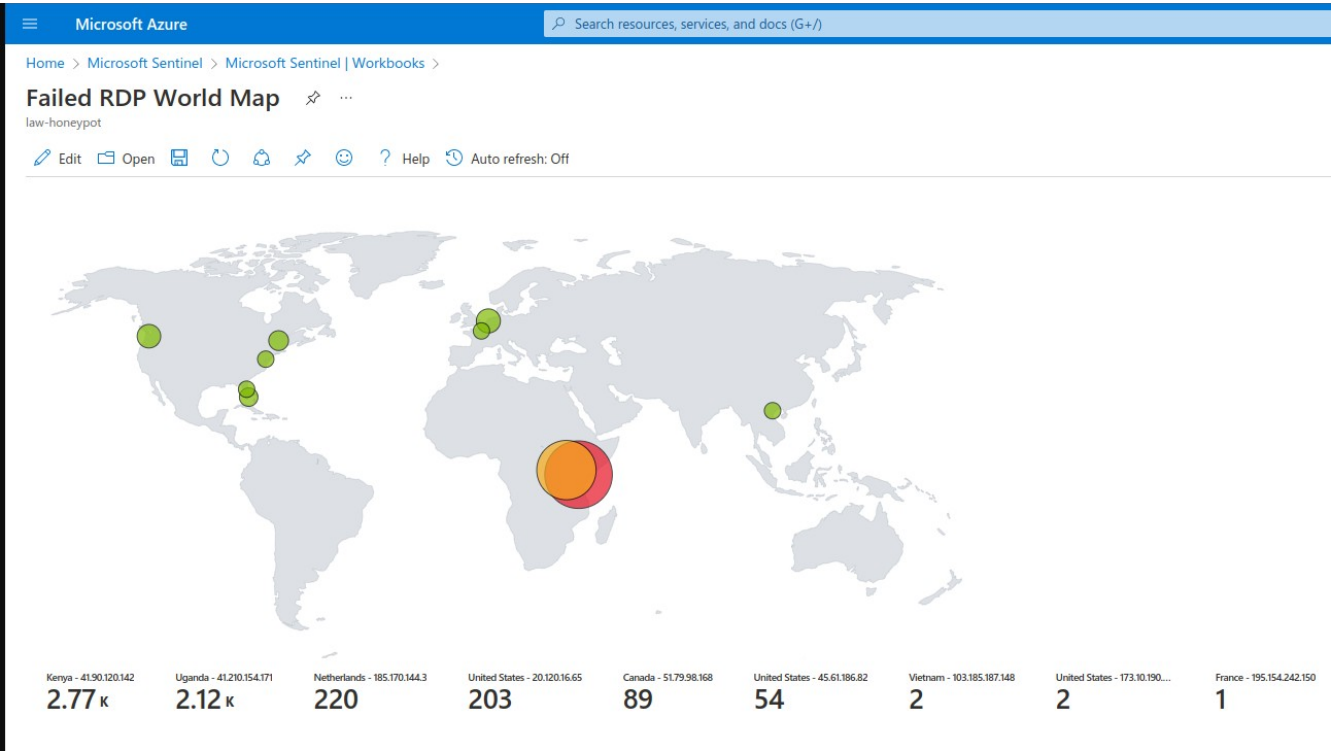
Log Analytics workspace Logs Query

```

FAILED_RDP_WITH_GEO_CL | summarize event_count=count() by sourcehost_CF, latitude_CF, longitude_CF, country_CF, label_CF, destinationhost_CF
| where destinationhost_CF != "samplehost"
| where sourcehost_CF != ""

```

Final Results



country_CF	state_CF	latitude_CF	longitude_CF	sourcehost_CF	username_CF
Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR
Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR
Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR
United States	Washington	47.04	-122.892	137.135.80.110	USER999
Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR
United States	Washington	47.04	-122.892	20.124.127.218	AZUREADMIN
Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR
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Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR
United States	Washington	47.04	-122.892	137.135.80.110	AZURE
Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR
United States	Washington	47.04	-122.892	20.120.16.65	AZUREUSER
Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR
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Netherlands	North Holland	52.37	4.873	185.170.144.3	ADMINISTRATOR

country_CF	state_CF	latitude_CF	longitude_CF	...	sourcehost_CF	username_CF
United States	Washington	47.04	-122.892		20.120.16.65	AZUREUSER
United States	Washington	47.04	-122.892		20.124.127.218	DEMOUSER
United States	Washington	47.04	-122.892		20.121.219.232	azureuser
United States	Washington	47.04	-122.892		20.120.16.65	AZUREUSER
United States	Washington	47.04	-122.892		20.124.127.218	AZUREDEMO
United States	Washington	47.04	-122.892		20.120.16.65	AZUREUSER
United States	Washington	47.04	-122.892		20.124.127.218	VMADMIN
United States	Washington	47.04	-122.892		20.120.16.65	AZUREUSER
United States	Washington	47.04	-122.892		20.124.127.218	DEMO
United States	Washington	47.04	-122.892		20.120.16.65	AZUREUSER
United States	Washington	47.04	-122.892		20.124.127.218	AZURE
United States	Washington	47.04	-122.892		20.120.16.65	AZUREUSER
United States	Washington	47.04	-122.892		20.124.127.218	AZUREUSER
United States	Washington	47.04	-122.892		20.120.16.65	AZUREUSER
United States	Washington	47.04	-122.892		20.124.127.218	AZUREADMIN

country_CF	state_CF	latitude_CF	longitude_CF	sourcehost_CF	username_CF
Kenya	null	-1.284	36.824	41.90.120.142	administrator
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Kenya	null	-1.284	36.824	41.90.120.142	administrator
Kenya	null	-1.284	36.824	41.90.120.142	administrator
Kenya	null	-1.284	36.824	41.90.120.142	administrator
United States	Washington	47.04	-122.892	20.124.126.143	administrator
United States	Washington	47.04	-122.892	20.124.126.143	administrator
Kenya	null	-1.284	36.824	41.90.120.142	administrator
Kenya	null	-1.284	36.824	41.90.120.142	administrator
Kenya	null	-1.284	36.824	41.90.120.142	administrator
United States	Washington	47.04	-122.892	20.124.126.143	administrator
United States	Washington	47.04	-122.892	20.124.126.143	administrator
United States	Washington	47.04	-122.892	20.124.126.143	administrator
United States	Washington	47.04	-122.892	20.124.126.143	administrator
Kenya	null	-1.284	36.824	41.90.120.142	administrator