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Hunting Malicious Windows Defender Activity

Posted on March 4, 2020 by Craig



Recently I was demo-ing Azure Sentinel to a large organization, and someone asked me "what if an attacker manages to compromise my system and disabled Windows Defender"



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exploitation using a Phishing technique to download a payload??

I've wrote this blog to hopefully help you combat and protect yourself from this type of scenario.

Below are some basic pre reqs to be comfortable following this blog:

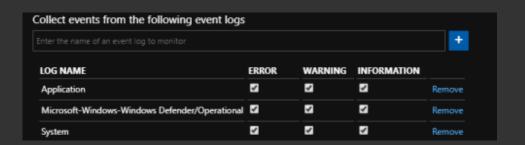
Pre Reqs & Assumptions:

- Azure Experience (essential)
- IT Security Experience (essential)
- Log Analytics (essential)
- Azure Sentinel (essential)
- A Physical Asset or Virtual Machine (essential)
- PowerShell (Not essential)

Firstly let's configure our Log Analytics workspace (which Sentinel reports too), this will collect all the data for what we're going to be querying on in relation to Windows Defender activity.

We're looking to collect data on any Anti-malware events from Microsoft Antimalware or Windows Defender.

Type "Microsoft-Windows-Windows Defender/Operational" – then tick Error, Warning & Information and click Save



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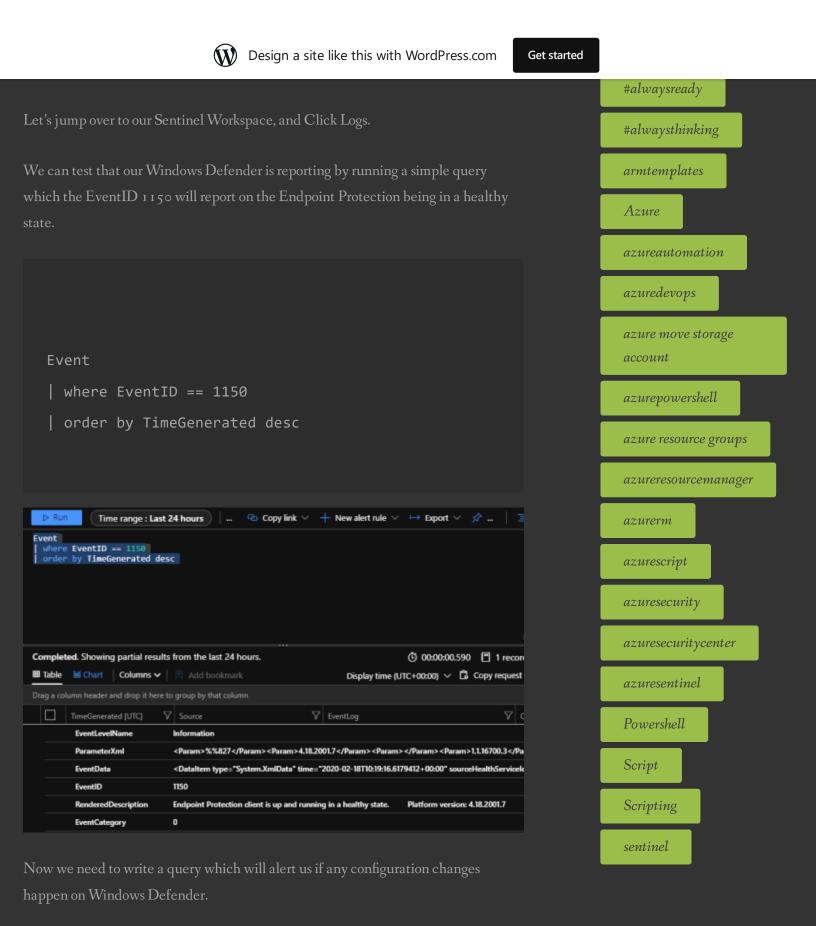
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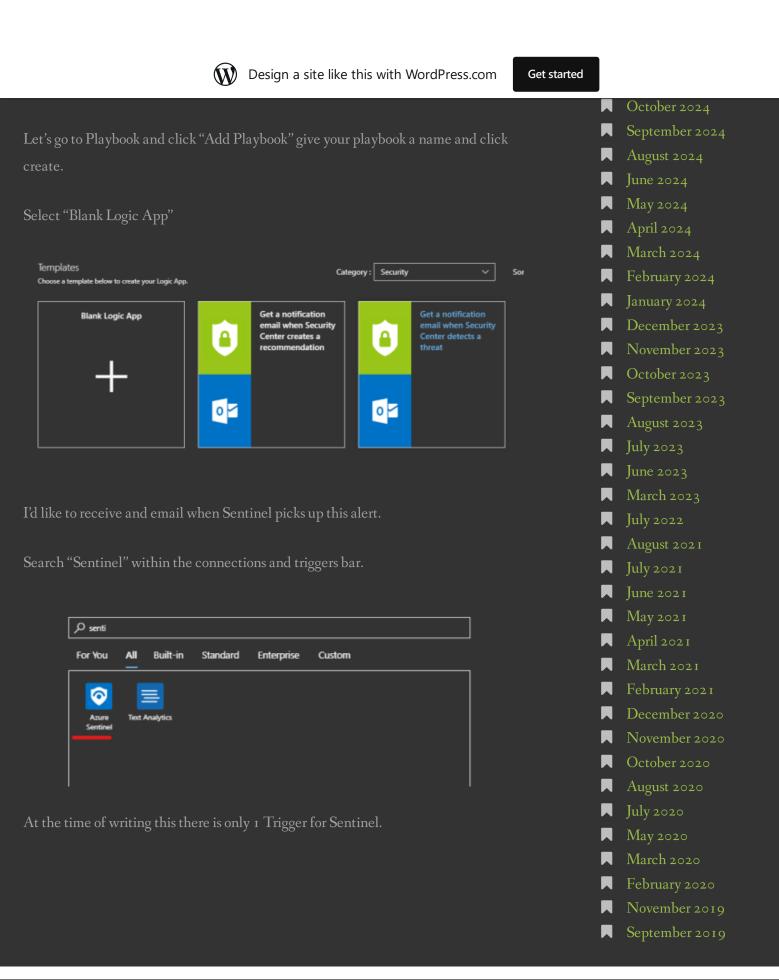
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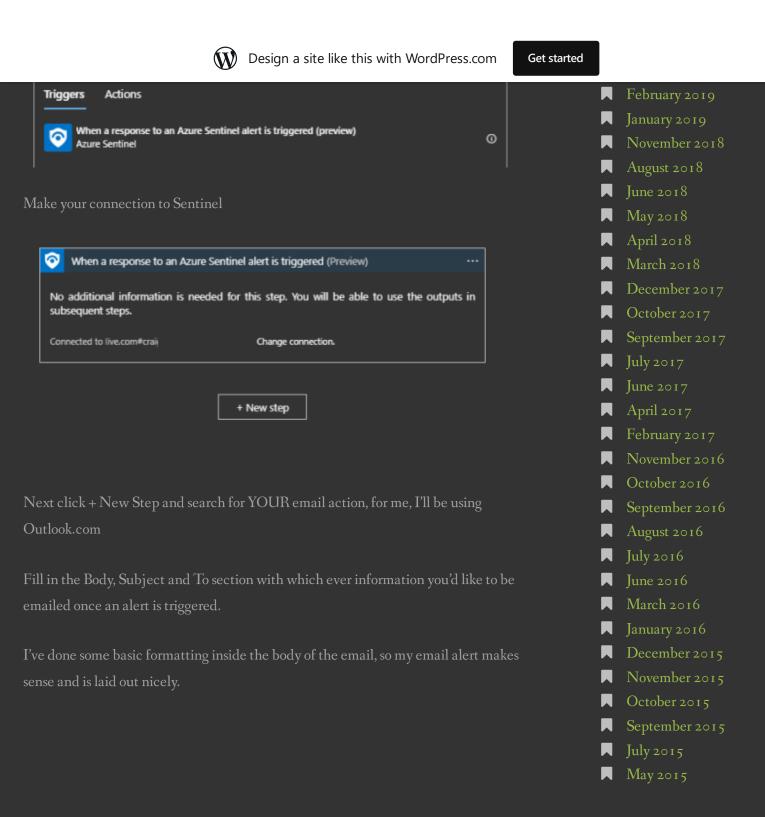
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Click Save, we can now attach our playbook to the security query, for us to be notified of this we need to create a Scheduled Analytic Query Rule.

Let's go to our Sentinel Dashboard and click "Analytics" $\,$



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Event ID: 5101

Symbolic name: MALWAREPROTECTION_DISABLED_EXPIRED_STATE

Event ID: 5012

Symbolic name: MALWAREPROTECTION_ANTIVIRUS_DISABLED

Event ID: 5010

Symbolic name: MALWAREPROTECTION_ANTISPYWARE_DISABLED

Event ID: 5001

Symbolic name: MALWAREPROTECTION_RTP_DISABLED

Realistically these ID's should never appear, if they do...you know something is

wrong.

So once we've captured them Event ID's we need to enter these into our Rule Logic, this will be our query which is below.

Event

| where EventID in (5101, 5001, 5012, 5010)

order by TimeGenerated desc

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Now let's get into the juicy stuff, below is a few lines of simple PowerShell that will disable Microsoft Windows Defender

NOTE please don't use this on a production VM or your own machine!!

Before that we can see that Defender has a green tick, all healthy and running nicely.

So let's execute the code below.



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Set-ExecutionPolicy Unrestricted -Force

Set-MpPreference -DisableRealtimeMonitoring \$true

Set-MpPreference -DisableRemovableDriveScanning \$true

Set-MpPreference -PUAProtection 1

New-ItemProperty -Path "HKLM:\SOFTWARE\Policies\Microsc

Now after running all that, you should see a bunch of Pops notifying you that defender isn't running and it should turn Red (or have a red X)



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Let's hop back to our Sentinel dashboard and check the situation out.

So we can see straight away that our Incident blade in Sentinel has captured the Analytic alert we've configured.

And after 1 or so minutes an email lands in my inbox



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Coupling all of the above will help defend how you alert and respond too Malicious Defender Activity with Azure Sentinel.

#alwayssecurity #alwaysready #alwayscloud #alwaysazure

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