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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"

Well...what if they do, how can we flag this and investigate and remediate...why would someone intentionally disable Anti-Malware protection...inside job or clever 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)



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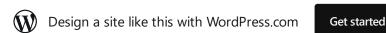
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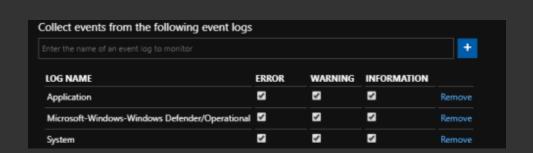
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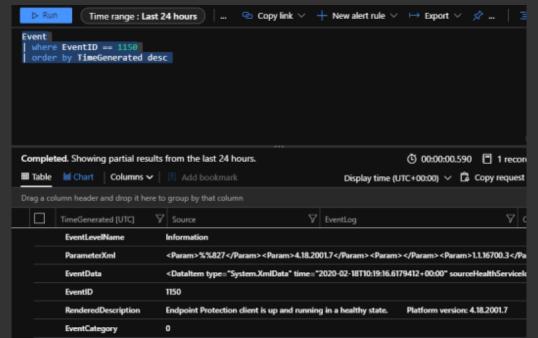


Once this is saved, it will take approximately 15 minutes to start collecting the data from your VM to Log Analytics.

Let's jump over to our Sentinel Workspace, and Click Logs.

We can test that our Windows Defender is reporting by running a simple query which the EventID 1150 will report on the Endpoint Protection being in a healthy state.



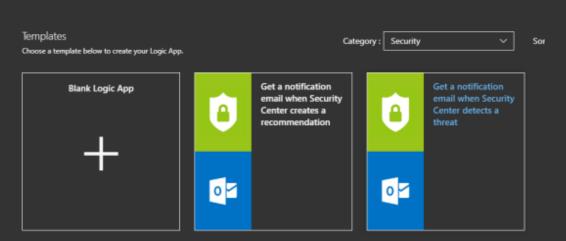


Now we need to write a query which will alert us if any configuration changes happen on Windows Defender.

Before we create our Analytic Rule, we need to create a Logic App/Playbook which will alert us via an email that windows defender has had some configuration changes.

Let's go to Playbook and click "Add Playbook" give your playbook a name and click create.

Select "Blank Logic App"



I'd like to receive and email when Sentinel picks up this alert.

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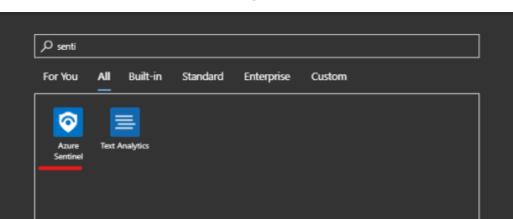
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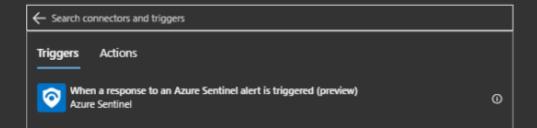
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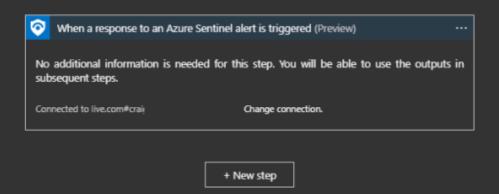
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At the time of writing this there is only 1 Trigger for Sentinel.



Make your connection to Sentinel



Next click + New Step and search for YOUR email action, for me, I'll be using Outlook.com

Fill in the Body, Subject and To section with which ever information you'd like to be emailed once an alert is triggered.

I've done some basic formatting inside the body of the email, so my email alert makes sense and is laid out nicely.

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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"



Let's create a New Rule.

I'm only just interested in obtaining information on the following ID's that have any relevance to being disabled are expired:

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

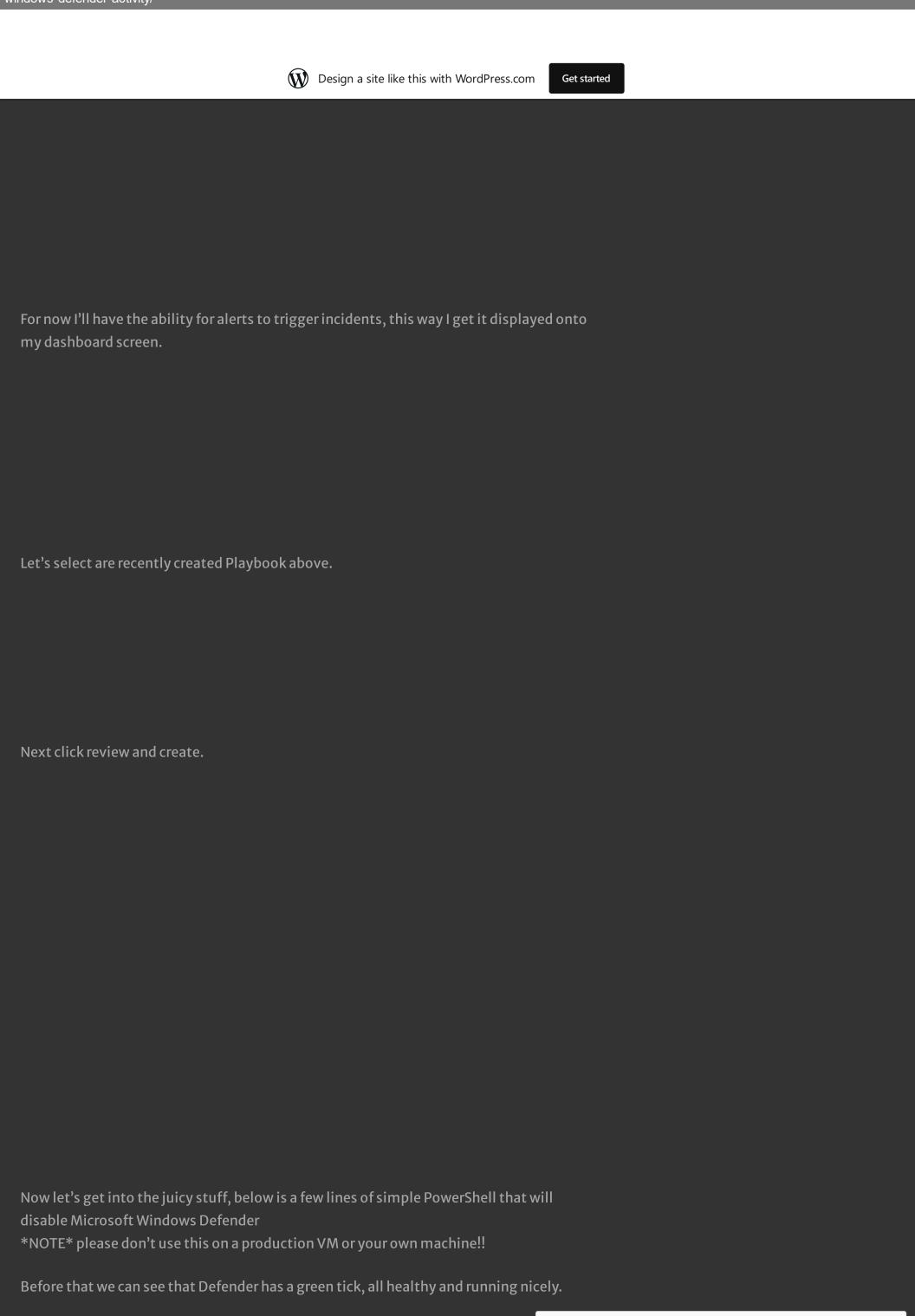
Event ID: 5001

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

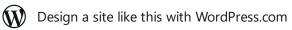


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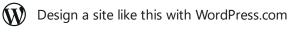
So let's execute the code below.

```
Set-ExecutionPolicy Unrestricted -Force
Set-MpPreference -DisableRealtimeMonitoring $true
Set-MpPreference -DisableRemovableDriveScanning $true
Set-MpPreference -PUAProtection 1
New-ItemProperty -Path "HKLM:\SOFTWARE\Policies\Microsoft\Windows Def
```

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)

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

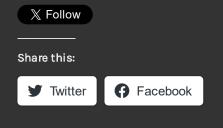
So we can see straight away that our Incident blade in Sentinel has captured the Analytic alert we've configured.



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

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

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