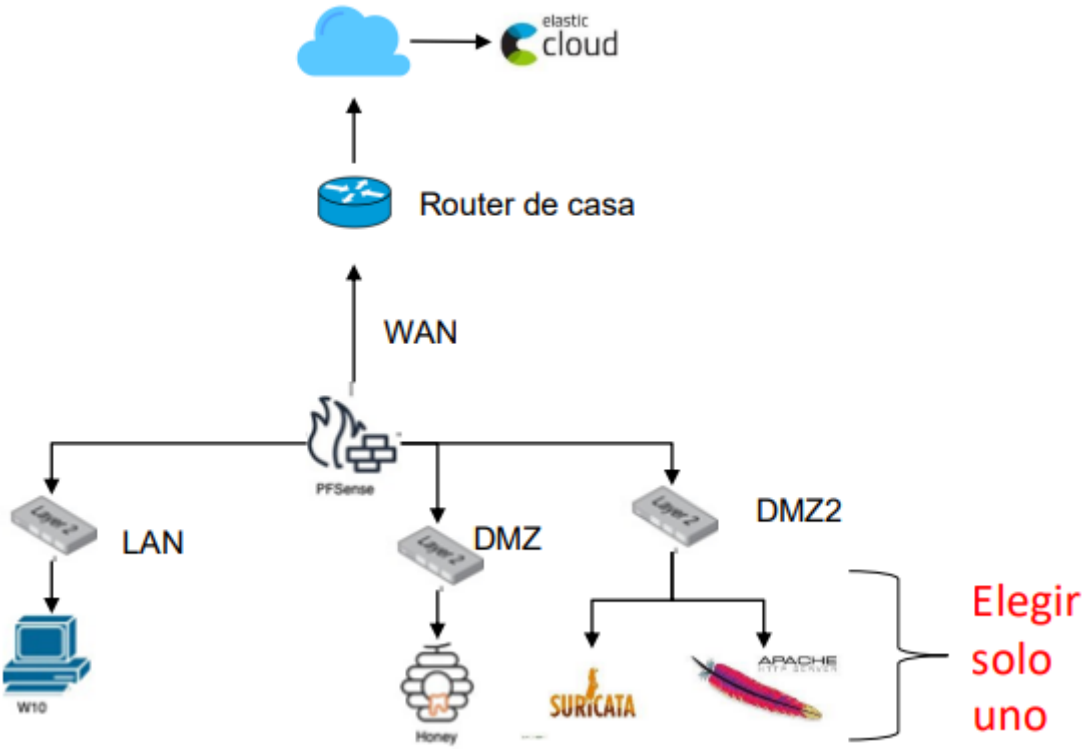
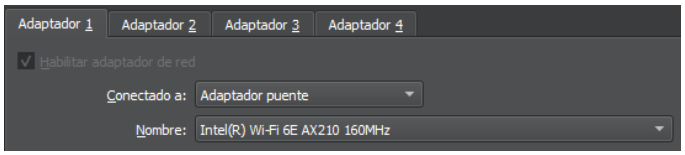
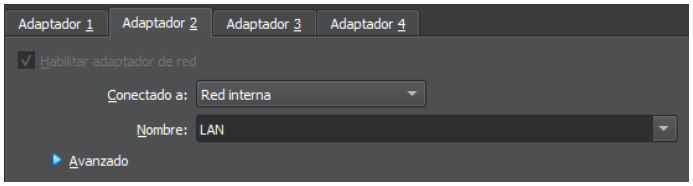
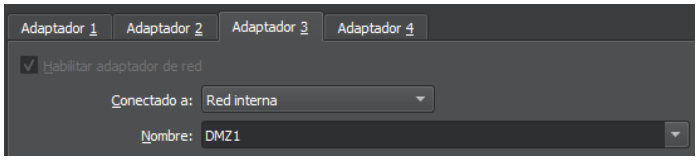
INFRAESTRUCTURA DE RED

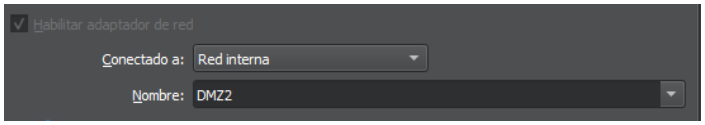


La configuración del firewall tiene 3 adaptadores:

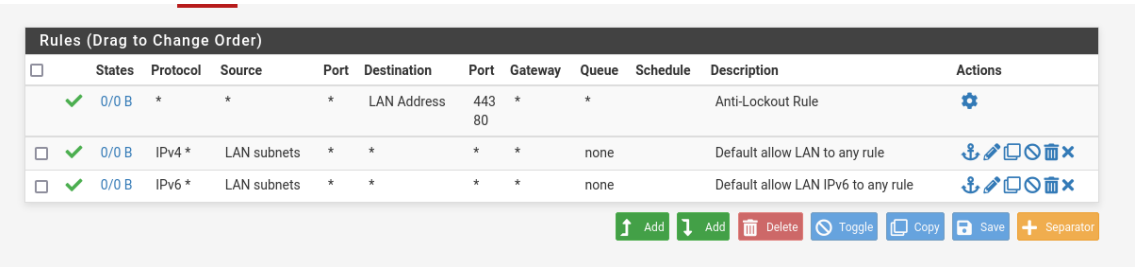








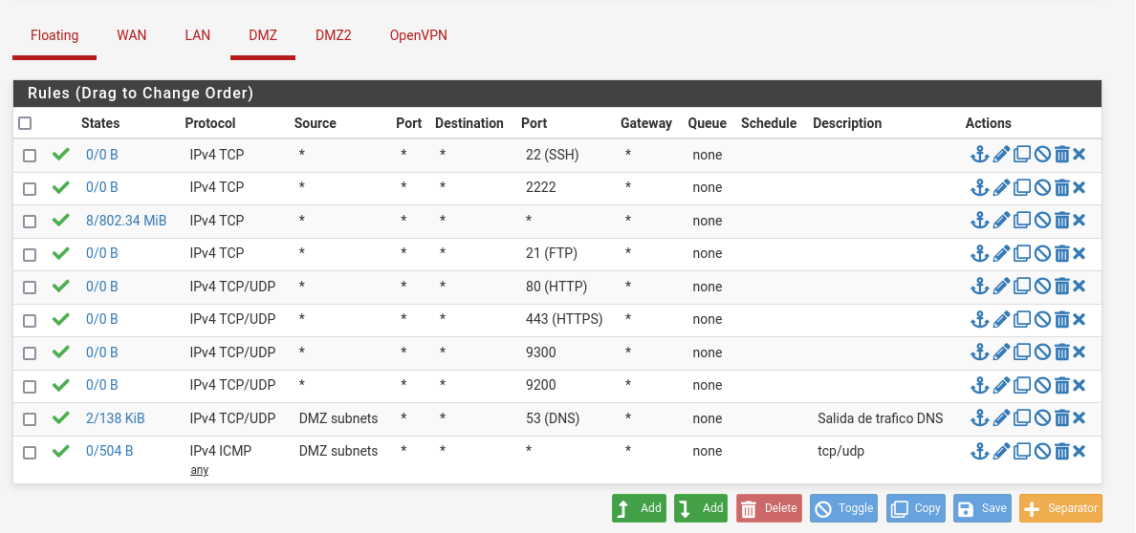
Y estas son las reglas que he establecido para cada uno:



Rules (Drag to Change Order)

	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
	0/0 B	*	*	*	LAN Address	443 80	*	*		Anti-Lockout Rule	
	0/0 B	IPv4 *	LAN subnets	*	*	*	*	none		Default allow LAN to any rule	
	0/0 B	IPv6 *	LAN subnets	*	*	*	*	none		Default allow LAN IPv6 to any rule	

Add Add Delete Toggle Copy Save Separator

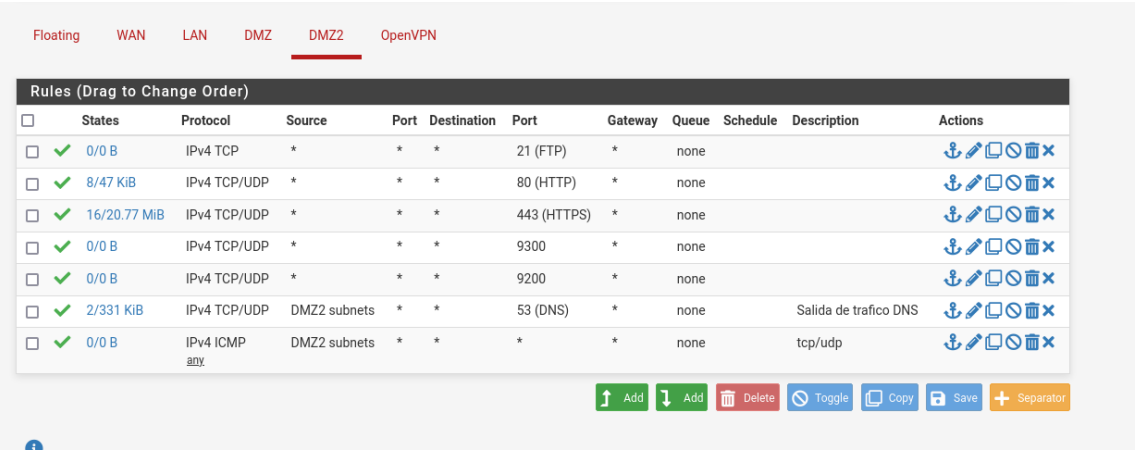


Floating WAN LAN DMZ DMZ2 OpenVPN

Rules (Drag to Change Order)

	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
	0/0 B	IPv4 TCP	*	*	*	22 (SSH)	*	none			
	0/0 B	IPv4 TCP	*	*	*	2222	*	none			
	8/802.34 MiB	IPv4 TCP	*	*	*	*	*	none			
	0/0 B	IPv4 TCP	*	*	*	21 (FTP)	*	none			
	0/0 B	IPv4 TCP/UDP	*	*	*	80 (HTTP)	*	none			
	0/0 B	IPv4 TCP/UDP	*	*	*	443 (HTTPS)	*	none			
	0/0 B	IPv4 TCP/UDP	*	*	*	9300	*	none			
	0/0 B	IPv4 TCP/UDP	*	*	*	9200	*	none			
	2/138 KiB	IPv4 TCP/UDP	DMZ subnets	*	*	53 (DNS)	*	none		Salida de trafico DNS	
	0/504 B	IPv4 ICMP any	DMZ subnets	*	*	*	*	none		tcp/udp	

Add Add Delete Toggle Copy Save Separator



Floating WAN LAN DMZ DMZ2 OpenVPN

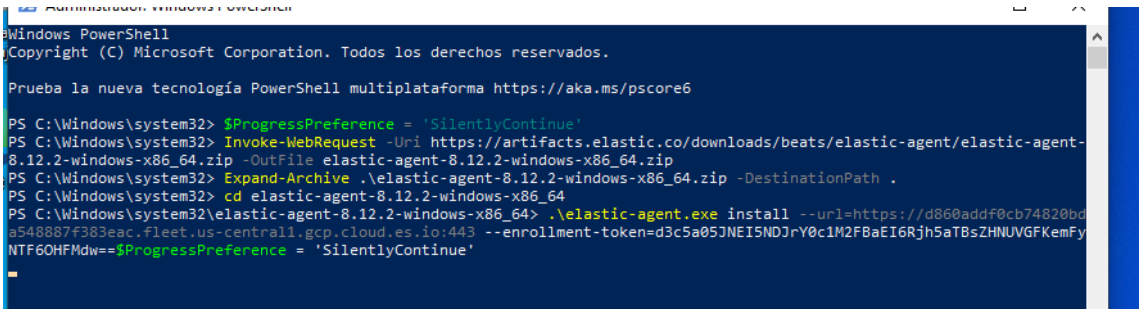
Rules (Drag to Change Order)

	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
	0/0 B	IPv4 TCP	*	*	*	21 (FTP)	*	none			
	8/47 KiB	IPv4 TCP/UDP	*	*	*	80 (HTTP)	*	none			
	16/20.77 MiB	IPv4 TCP/UDP	*	*	*	443 (HTTPS)	*	none			
	0/0 B	IPv4 TCP/UDP	*	*	*	9300	*	none			
	0/0 B	IPv4 TCP/UDP	*	*	*	9200	*	none			
	2/331 KiB	IPv4 TCP/UDP	DMZ2 subnets	*	*	53 (DNS)	*	none		Salida de trafico DNS	
	0/0 B	IPv4 ICMP any	DMZ2 subnets	*	*	*	*	none		tcp/udp	

Add Add Delete Toggle Copy Save Separator

Equipo Windows:

1. Instalamos Agente de Elastic



```
Windows PowerShell
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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Windows\system32> $ProgressPreference = 'SilentlyContinue'
PS C:\Windows\system32> Invoke-WebRequest -Uri https://artifacts.elastic.co/downloads/beats/elastic-agent/elastic-agent-
8.12.2-windows-x86_64.zip -OutFile elastic-agent-8.12.2-windows-x86_64.zip
PS C:\Windows\system32> Expand-Archive .\elastic-agent-8.12.2-windows-x86_64.zip -DestinationPath .
PS C:\Windows\system32> cd elastic-agent-8.12.2-windows-x86_64
PS C:\Windows\system32\elastic-agent-8.12.2-windows-x86_64> .\elastic-agent.exe install --url=https://d860addf0cb74820bd
a548887f383eac.fleet.us-central1.gcp.cloud.es.io:443 --enrollment-token=d3c5a05JNEI5NDJrY0c1M2FBaEI6Rjh5aTBsZHNUVGFKemFy
NTF6OHFMdw==$ProgressPreference = 'SilentlyContinue'
```
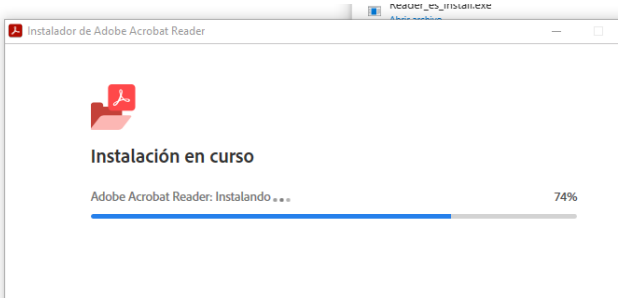
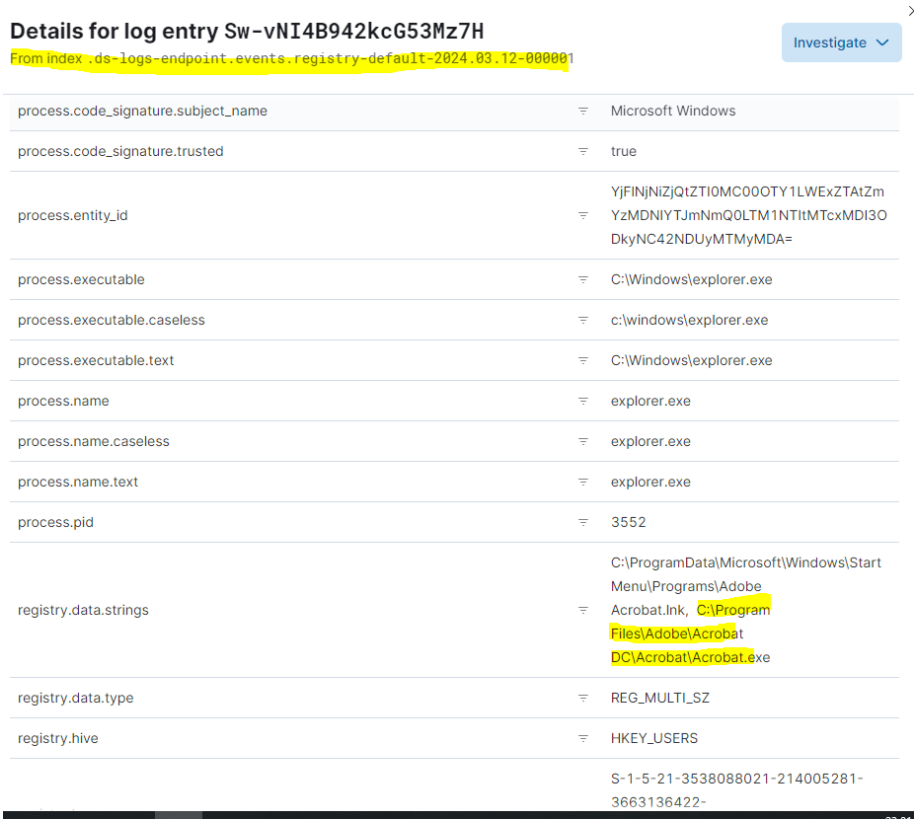

2. Procedo a realizar una instalación con el fin de generar logs:



3. Los resultados:



Details for log entry Sw-vNI4B942kcG53Mz7H

From index .ds-logs-endpoint.events.registry-default-2024.03.12-000001

Investigate

process.code_signature.subject_name	Microsoft Windows
process.code_signature.trusted	true
process.entity_id	YjFlNjNiZjQtZTI0MC00OTY1LWExZTAtZmYzMDNlYTJmNmQ0LTM1NTItMTcxMDI3ODkyNC42NDUyMTMyMDA=
process.executable	C:\Windows\explorer.exe
process.executable.caseless	c:\windows\explorer.exe
process.executable.text	C:\Windows\explorer.exe
process.name	explorer.exe
process.name.caseless	explorer.exe
process.name.text	explorer.exe
process.pid	3552
registry.data.strings	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Adobe Acrobat.lnk, C:\Program Files\Adobe\Acrobat DC\Acrobat\Acrobat.exe
registry.data.type	REG_MULTI_SZ
registry.hive	HKEY_USERS
	S-1-5-21-3538088021-214005281-3663136422-

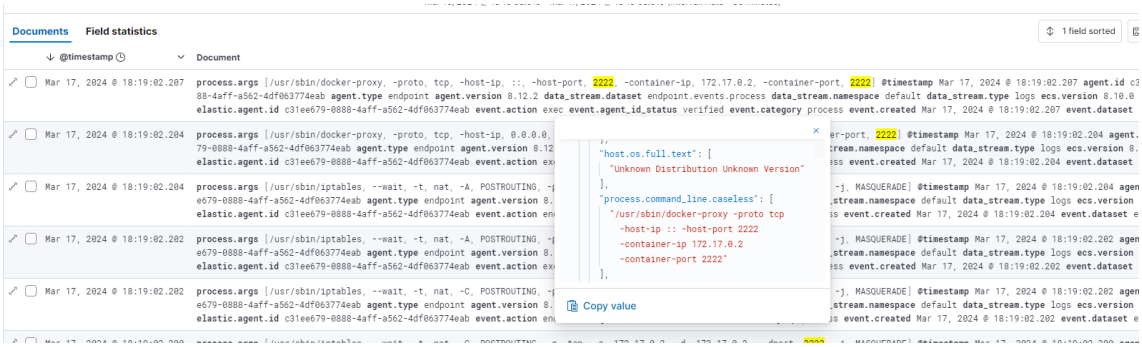
Equipo HoneyPot:

➔ He elegido una maquina kali y he instalado un honeypot ssh para generar logs a través de Elastic

1. Descargo el repositorio de github y lo ejecuto con docker mediante el puerto 2222

```
┌──(kali㉿kali)-[~/cowrie]
└─$ sudo docker run -p 2222:2222 cowrie/cowrie:latest
/cowrie/cowrie-env/lib/python3.11/site-packages/twisted/conch/ssh/transport.py:106: CryptographyDeprecationWarning:
Blowfish has been deprecated
  b"blowfish-cbc": (algorithms.Blowfish, 16, modes.CBC),
/cowrie/cowrie-env/lib/python3.11/site-packages/twisted/conch/ssh/transport.py:110: CryptographyDeprecationWarning:
CAST5 has been deprecated
  b"cast128-cbc": (algorithms.CAST5, 16, modes.CBC),
/cowrie/cowrie-env/lib/python3.11/site-packages/twisted/conch/ssh/transport.py:115: CryptographyDeprecationWarning:
Blowfish has been deprecated
  b"blowfish-ctr": (algorithms.Blowfish, 16, modes.CTR),
/cowrie/cowrie-env/lib/python3.11/site-packages/twisted/conch/ssh/transport.py:116: CryptographyDeprecationWarning:
CAST5 has been deprecated
  b"cast128-ctr": (algorithms.CAST5, 16, modes.CTR),
2024-03-17T17:19:02+0000 [-] Python Version 3.11.2 (main, Mar 13 2023, 12:18:29) [GCC 12.2.0]
2024-03-17T17:19:02+0000 [-] Twisted Version 23.10.0
2024-03-17T17:19:02+0000 [-] Cowrie Version 2.5.0
2024-03-17T17:19:02+0000 [-] Loaded output engine: jsonlog
2024-03-17T17:19:02+0000 [twisted.scripts._twistd_unix.UnixAppLogger#info] twistd 23.10.0 (/cowrie/cowrie-env/bin/py
thon3 3.11.2) starting up.
2024-03-17T17:19:02+0000 [twisted.scripts._twistd_unix.UnixAppLogger#info] reactor class: twisted.internet.epollreac
tor.EPollReactor.
2024-03-17T17:19:02+0000 [-] CowrieSSHFactory starting on 2222
2024-03-17T17:19:02+0000 [cowrie.ssh.factory.CowrieSSHFactory#info] Starting factory <cowrie.ssh.factory.CowrieSSHFa
ctory object at 0x7f7bf2e14510>
2024-03-17T17:19:02+0000 [-] Generating new RSA keypair...
2024-03-17T17:19:02+0000 [-] Generating new ECDSA keypair...
2024-03-17T17:19:02+0000 [-] Generating new ed25519 keypair...
2024-03-17T17:19:02+0000 [-] Ready to accept SSH connections
```

2. Estos son los logs al ejecutar el servicio:

3. 

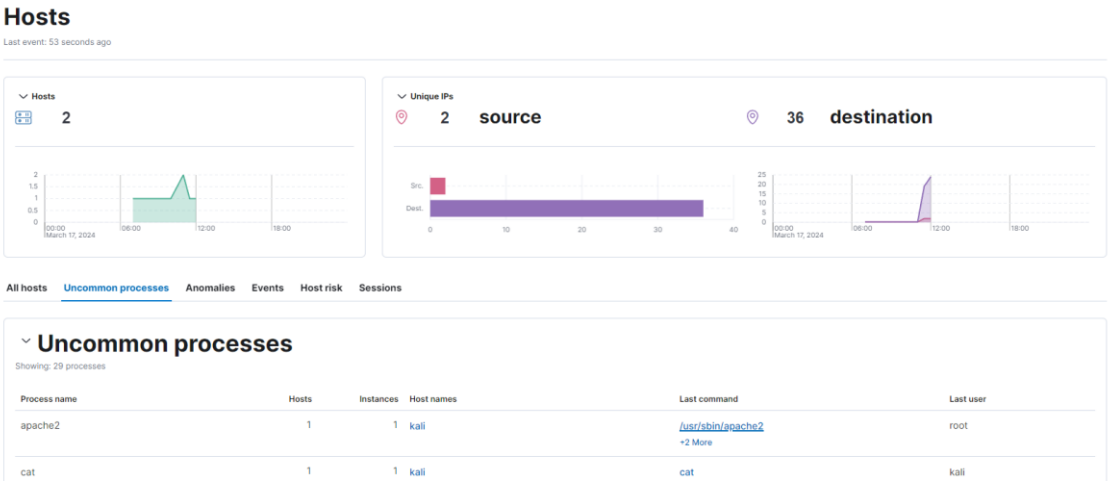
Equipo con Apache

➔ He elegido una maquina kali

➔ Una vez levantado el apache entramos en localhost(127.0.0.1)

1. 

2. Comprobamos que Elastic recoge el proceso



3. En los log podemos comprobar como que estamos accediendo a localhost a través de apache

4. Por si queda alguna duda comprobamos que el agent name es “kali”

5.