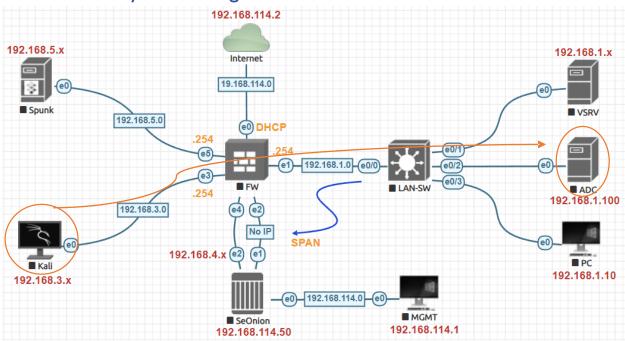
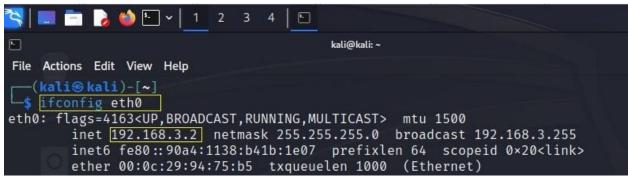
Active Direcotry Monitoring:



Kali Linux Attacker IP Address in the time of Attack 192.168.3.2.



Microsoft Windows Server 2019 in the LAN IP Address 192.168.1.100.

Alerts before attack in Security Onion with Management IP Address 192.168.114.50.

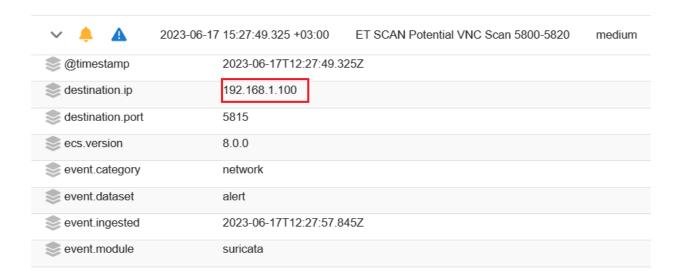


Let's perform scanning attack from Kali Linux on Windows Server 2019 192.168.1.100.

```
└─$ nmap 192.168.1.100
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-17 08:27 EDT
Strange read error from 192.168.1.100 (104 - 'Connection reset by peer')
Nmap scan report for 192.168.1.100
Host is up (0.0014s latency).
Not shown: 988 closed tcp ports (conn-refused)
PORT
        STATE SERVICE
53/tcp open domain
88/tcp open kerberos-sec
135/tcp open msrpc
139/tcp open netbios-ssn
389/tcp open ldap
445/tcp open microsoft-ds
464/tcp open kpasswd5
593/tcp open http-rpc-epmap
636/tcp open ldapssl
3268/tcp open globalcatLDAP
3269/tcp open globalcatLDAPssl
3389/tcp open ms-wbt-server
```

Let's navigate back to Security Onion Alerts to see the attack.

	Count	rule.name	event.module
. .	1	ET SCAN Potential VNC Scan 5800-5820	suricata
. .	1	ET SCAN Potential VNC Scan 5900-5920	suricata
. .	1	ET SCAN Suspicious inbound to MSSQL port 1433	suricata
. .	1	ET SCAN Suspicious inbound to Oracle SQL port 1521	suricata
. .	1	ET SCAN Suspicious inbound to PostgreSQL port 5432	suricata
. .	1	ET SCAN Suspicious inbound to mySQL port 3306	suricata

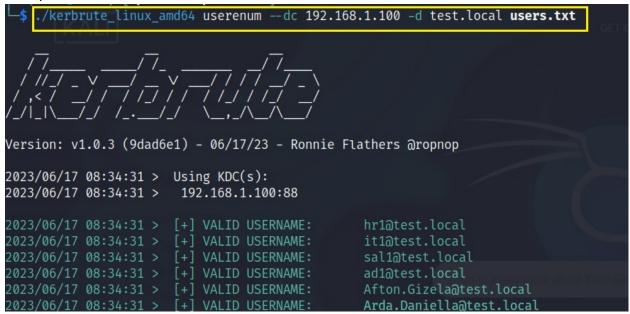


Navigate to Dashboard filter by Suricata to see more specific logs related to the attack.

	Timestamp 🛖	source.ip	source.port	destination.ip	destination.por
> 🛕	2023-06-17 15:27:50.605 +03:00	192.168.3.2	38080	192.168.1.100	1521
> A	2023-06-17 15:27:50.603 +03:00	192.168.3.2	47462	192.168.1.100	5902
> A	2023-06-17 15:27:50.435 +03:00	192.168.3.2	50376	192.168.1.100	5432
> A	2023-06-17 15:27:49.325 +03:00	192.168.3.2	54084	192.168.1.100	5815
> 🛕	2023-06-17 15:27:48.120 +03:00	192.168.3.2	60842	192.168.1.100	1433
> 🛕	2023-06-17 15:27:48.112 +03:00	192.168.3.2	34168	192.168.1.100	3306

Count Count	destination.port
1	1433
1	1521
1	3306
1	5432
1	5815
1	5902
	Rows per page: 10 ▼ 1-6 of 6

Let's perform Kerberos attack from Kali Linux to Windows Server 2019 192.168.1.100



Navigate to Dashboard filter by Kerberos to see more details.

•	<u></u> □ □	event.datase	to see more		unt 🗘 🔟 🚼 🗸	event.m	odule
4,370		access		4,50	03	kratos	
1,293		conn		1,4	50	zeek	
729		syscollecto	г	971	1	ossec	
419		elasticsear	ch.server	419	9	elastics	search
214		ossec		71		kibana	
77		kerberos		6		suricata	a
source.ip	source.port	destination.ip	destination.port	kerbero	os.client	kerberos.servio	ce
192.168.3.2	50841	192.168.1.100	88	ad1/TE	EST.LOCAL	krbtgt/TEST.L	OCAL
192.168.3.2	36207	192.168.1.100	88	sal1/TE	EST.LOCAL	krbtgt/TEST.L	OCAL
192.168.3.2	59085	192.168.1.100	88	hr1/TE	ST.LOCAL	krbtgt/TEST.L	OCAL
192.168.3.2	46092	192.168.1.100	88	Berny.L	Lauren/TEST.LOCAL	krbtgt/TEST.L	OCAL
192.168.3.2	45984	192.168.1.100	88	Albertir	ne.Pier/TEST.LOCAL	krbtgt/TEST.L	OCAL
192.168.3.2	51836	192.168.1.100	88	Alethea	a.Saraann/TEST.LOCAL	krbtgt/TEST.L	OCAL
192.168.3.2	55760	192.168.1.100	88	Afton.G	Gizela/TEST.LOCAL	krbtgt/TEST.LOCA	

Monitor in Splunk:

