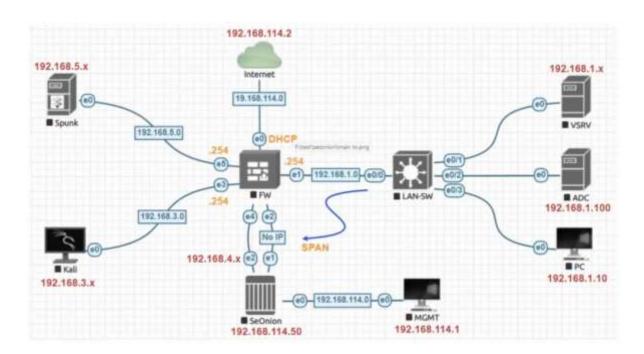
# Cybersecurity monitoring and detection lab setup way:

## Graphical view of lab setup:



#### Software/platform that use:

Firewall	pfSense-CE-2.6.0-RELEASE-amd64.iso	
PC1	Win11 x64 Pro 2022.iso	
ADC	Server 2019 En Jun 2020.iso	
Kali	kali-linux-2023.2.vmdk	
SecOnion	securityonion-2.3.250-20230519.iso	
Metasploitable	Metasploitable 2.vmdk	
Splunk	Ubuntu Server 22.10 (64bit).vmdk	
MGMT	Host System Windows 11	

## Ip assigning:

External Subnet	192.168.114.0/24		
Internal LAN Subnet	192.168.1.0/24		
SPAN Port IP Address	No IP Address		
Attacker Subnet	192.168.3.0/24		
Security Onion Logs Subnet	192.168.4.0/24		
Splunk Log Collector Subnet	192.168.5.0/24		
Metasploitable IP Address	Through DHCP		
ADC IP Address	192.168.1.100		
PC1 IP Address	192.168.1.10		
Attacker IP Address	Through DHCP		
Splunk IP Address	Through DHCP		
Security Onion IP Address	192.168.114.50		
Security Onion MGMT IP Address	192.168.114.1		
DNS	8.8.8.8, 4.4.4.4		

## Adapter info:

VMware Adopter	k Adopter NAT WAN		PfSense Interfaces EM0	
Network Adopter				
Network Adopter 2			EM1	
Network Adopter 3	VMNet3	SPAN	EM2	
Network Adopter 4	VMNet4	KALI	EM3	
Network Adopter 5	VMNet5	SECONION	EM4	
Network Adopter 6	VMNet6	SPLUNK	EM5	

IP Subnet	Network Connection	Role	PfSense Interfaces	VMware Adopter
192.168.114.0/24	NAT	WAN	EM0	Network Adopter
192.168.1.0/24	VMNet2	LAN	EM1	Network Adopter 2
No IP Address	VMNet3	SPAN	EM2	Network Adopter 3
192.168.3.0/24	VMNet4	KALI	EM3	Network Adopter 4
192.168.4.0/24	VMNet5	SECONION	EM4	Network Adopter 5
192.168.5.0/24	VMNet6	SPLUNK	EM5	Network Adopter 6