



Security Onion Sgt Uptmor,Connor,SSgt Caban,Richard Sgt Camp,Derrick

This document will serve as the guide to Security Onion installation and usage for operations.

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Overview

Security Onion is a free and open platform built by defenders for defenders. It includes network visibility, host visibility, intrusion detection, honeypots, log management, and case management. Security Onion has been downloaded over 2 million times and is being used by security teams around the world to monitor and defend their enterprises.

https://Securityonion.net is the primary source for Security Onion media and online documentation.

The "Downloads" tab on the homepage of the website redirects to a Github portal containing the most current version of the SO .ISO file (Version 2.4 at the time this guide was written).

The ISO. file should be downloaded and verified on local media prior to any live application. An external hard drive containing this file, as well as any additional tools required by the team, is recommended bearing in mind that all tools and media will need to be replicated across both NIPR and SIPR enclaves. Additionally, forward deployed networks and many target environments will be operating on minimal bandwidth without access to a standard white-line. Attempting to update currently running services in these environments is not recommended and all steps should be taken to ensure that all software taken to the target environment is already configured with any and all recent changes.

For any questions about Security Onion, please refer to: "docs.securityonion.net/en/latest".





In the diagram below, we see Security Onion in a traditional enterprise network with a firewall, workstations, and servers. You can use Security Onion to monitor north/south traffic to detect an adversary entering an environment, establishing command-and-control (C2), or perhaps data exfiltration. You'll probably also want to monitor east/west traffic to detect lateral movement. As more and more of our network traffic becomes encrypted, it's important to fill in those blind spots with additional visibility in the form of endpoint telemetry. Security Onion can consume logs from your servers and workstations so that you can then hunt across all of your network and host logs at the same time.







Tools and Capabilities

- ATT&CK Visualize defensive coverage
- CyberChef Compress and decompress data
- Suricata Signature based detections
- Suricata Rich protocol metadata file extractor
- Zeek Rich protocol metadata file extractor
- Stenographer Full packet capture
- Strelka File analysis
- Elastic Agent Host visibility
- **OSquery** Live queries
- Elastic Fleet Centralized Management
- **OpenCanary** Intrusion detection honeypots





Architecture

Standalone

Standalone runs all components run on one box. However, instead of Elastic agents sending logs directly to Elasticsearch, it sends them to Logstash, which sends them to Redis for queuing. A second logstash pipeline pulls the logs out of Redis and sends them to ElasticSearch, where they are parsed and indexed. This type of deployment is best used for low throughput environments and is not as scalable as a distributed deployment.







Distributed

Standard distributed deployment includes a manager node, and one or more forward nodes running network sensor components, and one or more search nodes running Elastic search components. This architecture may cost more upfront, but it provides for greater scalability and performance, as you can simply add more nodes to handle more traffic or log sources.







Security Onion Installation

By: Sgt Camp, Derrick <u>3rd PLT DCO-IDM</u> <u>LU: 20231101</u>

Step 1:

Create a new Virtual Machine



Step 2:

Name: SecOnion Compatibility: ESXi 7.0 U2 Virtual Machine Guest OS Family: Linux Guest OS Version: Oracle 9

Select creation type	Select a name and gu	lest OS	
Select a name and guest OS	Specify a unique name and OS		
elect storage Customize settings Ready to complete	Name SecOnion Virtual machine names can contai Identifying the guest operating sys	n up to 80 characters and they must be unique within each	n ESXI instance.
	Compatibility	ESXi 7.0 U2 virtual machine	~
	Guest OS family	Linux	~
	Guest OS version	Oracle Linux 9 (64-bit)	~
vm ware [®]			





Step 3: Select Storage: Minirax Datastore 1 -> Next Customize settings :

- CPU : 10
- Memory : 120GB
- Hard disk 1 : 2.5T

*Click hard disk drop down and make it thin provision *

Add network adapter

Scroll down to "New network Adapter"

- Select dropdown

Select "sniffing"

New virtual machine - SecOnion (ESXi 7.0 U2 virtual machine)

2 Select a name and guest OS	Configure the virtual machine hardwar	e and virtual machine additional options	
3 Select storage 4 Customize settings			
e Ready to complete	🔜 Add hard disk 🛛 🛤 Add networ	k adapter 🛛 🚍 Add other device	
	F 🗖 CPU 🚹	10 ~ 1	
	🕨 🌆 Memory 🚹	120 GB ~	
	🕨 🛄 Hard disk 1 🛕	2.5 TB ~	\otimes
	SCSI Controller 0	VMware Paravirtual ~	\otimes
	SATA Controller 0		8
	😌 USB controller 1	USB 2.0 ~	8
	Network Adapter 1	Domain Services	8
	► Ma New Network Adapter	Sniffing	\otimes
m ware [®]	▼ (9) CD/DVD Drive 1	Datastore ISO file	8
• • • • • • • • • • • • • • • • • • •			





Step 4: Select CD/DVD Drive dropdown Select Datastore ISO file Click ISO in datastore browser

Minirax Datastore 1 • vmimages • vmimages • vCLS-03c20791-b2 •	Minirax Datastore 1	SAM	securityonion-2.4.2	
	11	 .vSphere-HA ISO vCLS-03c20791-b2 	111	securityonion-2.4.20-2 14.74 GB Tuesday, October 24, 2

Step 5: SecurityOnion-2.4.2 (or most up to date)

🔁 New virtual machine - SecOnion (E	SXi 7.0 U2 virtual machine)		
 1 Select creation type 2 Select a name and guest OS 3 Select stream 	Customize settings Configure the virtual machine hardware a	nd virtual machine additional options	
Customize settings 5 Ready to complete	► Kan SCSI Controller 0	VMware Paravirtual ~	3
	SATA Controller 0	G	3
	USB controller 1	USB 2.0 ~	3
	Network Adapter 1	Domain Services V Connect	3
	New Network Adapter	Sniffing V Connect	3
	✓ (iii) CD/DVD Drive 1	Datastore ISO file Connect	3
	Status	Connect at power on	
	CD/DVD Media	[Minirax Datastore 1] ISO/securityonion-2.4.20-202310 Browse	
	Controller location	SATA controller 0 ~ SATA (0:0) ~	
vm ware [®]	▶ 🛄 Video Card	Default settings ~	
		Back Next Finish C	an





Step 6: Select Next Review All Configurations

1 Select creation type	Name	SecOnion
2 Select a name and guest OS	Datastore	Minirax Datastore 1
3 Select storage	Guest OS name	Oracle Linux 9 (64-bit)
5 Ready to complete	Compatibility	ESXi 7.0 U2 virtual machine
	vCPUs	10
	Memory	120 GB
	Network adapters	2
	Network adapter 1 network	Domain Services
	Network adapter 1 type	VMXNET 3
	Network adapter 2 network	Sniffing
	Network adapter 2 type	VMXNET 3
	IDE controller 0	IDE 0
	IDE controller 1	IDE 1
	SCSI controller 0	VMware Paravirtual
	SATA controller 0	New SATA controller
	Hard disk 1	
	Capacity	2.5TB
vm ware	Datastore	[Minirax Datastore 1] SecOnion/
	Mode	Dependent

Step 7: Click Finish

	Provisioning	Thick provisioned, lazily zeroed
	Controller	SCSI controller 0 : 0
	CD/DVD drive 1	
	Backing	[Minirax Datastore 1] ISO/securityonion-2.4.20-20231012.iso
vm ware [®]	Connected	Yes
	USB controller 1	USB 2.0
		Back Next Finish Cancel

vmware: Esxi"							root@10.1.5.12 + Help	- Q Search	1 -
Virtual machine SecOnion was suc	ccessfully created -dismiss -Virtual Machines								×
▼ 📓 Host Manage	🎦 Create / Register VM 🛛 📑 Console 🗍 🕨 Power on 📲	Power off 🔢 Suspend C Refre	ash 🔅	Actions				Q Search	
Monitor	Virtual machine	 Status 	v l	Jsed space 🗸 🗸	Guest OS v	Host name v	Host CPU	Host memory	~
Virtual Machines 2	🏚 vCLS-03c20791-b267-4c34-95a7-c92badf4e3eb	📀 Normal	4	\$84.01 MB	Other 3.x or later Linux (64-bit)	None	5 MHz	157 MB	
✓	D. p SecOnion	📀 Normal	0) B	Oracle Linux 9 (64-bit)	Unknown	0 MHz	0 MB	
Minirax Datastore 1 Monitor	Quick filters V								2 items 🦼
More storage									
> Q Networking 3									
			Co	omplete!!!					
	Recent tasks		_						
	Task v Target	~	Initiator	~ Queued	✓ Started	✓ Result ▲	~	Completed v	~
	Destroy 🐴 Sec	Onion	root	10/25/2023 07:10	14 10/25/2023 07:10:14	Completed auccessfully		10/25/2023 07:10:14	
	Shutdown Guest 👘 Sec	Onion	root	10/25/2023 07:10:1	01 10/25/2023 07:10:01	Completed successfully		10/25/2023 07:10:02	
	Create VM 👸 Sec	Onion	root	10/25/2023 07:28:	22 10/25/2023 07:28:22	Completed successfully		10/25/2023 07:28:23	





Security Onion Configuration

Step 1:

Power On Virtual Machine "Security Onion"

-Click Power On

vmware" esxi"							root@10.1.5.12 + Help	- Q Search	
Virtual machine SecOnion was s	uccessfully created kidismiss - Virtual Machines							>	c
T → Host Hanage Montor Mortal Machines 2 T → Storage 1 Montor More storage More storage More storage More storage	Craste / Register VM Console Power Virtual machine	er en Power of Status eb b b c c c c c c c c c c c c c	efesh @Actons V Used space al 484.01 MB al 0.B	✓ Guest OS Other 3 x or later Oracle Linux 9 (6	V Host n Linux (64-bit) None 34-bit) Unimo	ame v	Host CPU ~ 5 MHz 0 MHz	Q Search Hoat memory ~ 157 MB 0 MB 2 Items J	
	Recent tasks								2
	Task ~	larget	 Initiator 	v Queued	✓ Started	✓ Result ▲	~	Completed v	~
	Destroy	SecOnion	root	10/25/2023 07:10:14	10/25/2023 07:10:14	Completed successfully		10/25/2023 07:10:14	
	Shutdown Guest	SecOnion	root	10/25/2023 07:10:01	10/25/2023 07:10:01	Completed successfully		10/25/2023 07:10:02	
	Create VM	B SecOnion	root	10/25/2023 07:28:22	10/25/2023 07:28:22	Completed successfully		10/25/2023 07:28:23	

Step 2:

Select "Install Security Onion"







Step 3: Select "Yes" to proceed Hit Enter on keyboard

	SecOnion				
###		###			
##	** W A R N I N G **	##			
##		##			
##		##			
##	Installing the Security Onion ISO	##			
##	on this device will DESTROY ALL DATA	##			
##	and partitions!	##			
##		##			
##	** ALL DATA WILL BE LOST **	##			
###		###			
Do	you wish to continue? (Type the entir	e word	'yes'	to proce	ed.) _

Step 4:

Enter an administrator username: " soadmin " Hit Enter on keyboard

Do you wish to continue? (Type the entire word 'yes' to proceed.) yes

A new administrative user will be created. This user will be used for setting up and administering Security Onion.

Enter an administrati∨e username: soadmin

Step 5: set password to standard Re-Enter Password

Let's set a password for the soadmin user:

Enter a password:

Step 6: Hit the enter key Wait for installation to begin Takes a long time Hit the enter key to reboot

Step 7: Login





Oracle Linux Server 9.2 Kernel 5.15.0-105.125.6.2.2.el9uek.x86_64 on an x86_64
localhost login: _
Step 8: Select Install to run the standard installation Press the enter key to continue
Security Onion Setup - 2.4.20
Welcome to Security Onion Setup!
You can use Setup for several different use cases, from a small standalone installation to a large distributed deployment for your enterprise. You can learn more in the documentation at: https://docs.securityonion.net/en/2.4
Setup uses keyboard navigation and you can use arrow keys to move around. Certain screens may provide a list and ask you to select one or more items from that list. You can use the Space bar to select items and the Enter key to proceed to the next screen.
Would you like to continue?
(Yes) <no></no>
Select an option Security Onion Setup - 2.4.20
Install Run the standard Security Onion installation
Configure Network Configure networking only
<ok> <cancel></cancel></ok>

Step 9:

This is now considered the beginning of the configuration of Security Onion Select the type of installation you would like to do Standalone for this instance







Step 10:

Type " AGREE " and press the ENTER key

Security Onion Setup - 2.4.20 Elastic Stack binaries and Security Onion components are only available under the Elastic License version 2 (ELv2): https://securityonion.net/license/ Do you agree to the terms of ELv2? If so, type AGREE to accept ELv2 and continue. Otherwise, press Enter to exit this program without making any changes. (Ok) (Cancel)

Step 11:

Select AIRGAP (THIS MODE DOES NOT HAVE ACCESS TO THE INTERNET)





How should this	- <mark>Security Onion Setup</mark> - node be installed?	2.4.20
<mark>Standard</mark> Airgap	This node has access to This node does not have	the Internet access to the Internet
	<0k>	<cancel></cancel>

Enter Hostname: " Seconion3rd "

Press the Enter Key

Enter the hostname (not FQ	ity Onion Setup - 2.4.20 DN) you would like to set:
seconion3rd	
<0k>	<cancel></cancel>

Step 13:

Not required.

You'll have the option to add a description for this Security Onion build

Enter a short	description for	Union Setup the node or	- 2.4.20 press ENTER to	o leave blank:
	<0k>		<cancel></cancel>	

Step 14:

The first Network Interface Card should be the **Management** interface Press the ENTER key





 Security Onion Setup - 2.4.20

 Please select the NIC you would like to use for management.



•

Step 15:

Depending on your internal network environment. You have the option to set-up your management interface.

- Select Static
- Enter an IPv4 address with CIDR 10.1.10.22/24
- Press ENTER

Choose how to set up	Security Onion Setup - 2.4.20 your management interface:
<mark>STATIC Set</mark> DHCP Use	a static IPv4 address DHCP to configure the Management Interface

Security Onion S What IPv4 address would you I Security Onion installation? Please enter the IPv4 address (e.g. 192.168.1.2/24):	Setup - 2.4.20 like to assign to this s with CIDR mask
10.1.10.22/24	
<0k>	<cancel></cancel>





Step 16 Gateway IPv4 address: 10.1.10.1

Security On Enter your gateway's IPv	ion Setup - 2.4.20 4 address:
10.1.10.1	
<0k>	<cancel></cancel>

Step 17:

Enter your DNS servers separated by commas. 10.1.10.14,10.1.10.15

Enter your DNS servers	Onion Setup - 2.4.20 separated by commas:
10.1.10.14,10.1.10.15	
<0k>	<cancel></cancel>

Step 18:

Enter your dns search domain : 3rdplt.dco.mil (editor's note: use direct after step 18)

•	
Security	Onion Setup - 2.4.20
Enter your DNS search	domain:
Brdult dee mil	
Srupre.uco.mrr	
<0k>	<cancel></cancel>
Step 19:	
Securit	J Onion Setup - 2.4.20
	· · ·
Do you want to keep the defa	ilt Docker IP range?

If you are unsure, please accept the default option of Yes.

<Yes> <No>

Step 20: Press the spacebar to select the monitor interface





Please add NICs to the Mo	<mark>rity Onion Setup</mark> - nitor Interface:	2.4.20
[<mark>]</mark>] ens224 00:0c:29:a	1:62:3c Link UP	
<0k>		<cancel></cancel>

Step 21:

Enter an email address to create an administrator account for the web interface soadmin@3rdplt.dco.mil

Security Onion Setup - 2.4.20 Please enter an email address to create an administrator account for the Security Onion Console (SOC) web interface. This will also be used for Elasticsearch and Kibana.				
soadmin@3rdplt.dco.mil				
<0k>	<cancel></cancel>			

Step 22:

Standard password

Security Onion Enter a password for soadm	n Setup - 2.4.20 in@3rdplt.dco.mil:
<0k>	<cancel></cancel>
Re-enter a password for soa	n Setup - 2.4.20 admin@3rdplt.dco.mil:
<0k>	<cancel></cancel>

Step 23:

Select how you would like to reach the web interface.

We prefer IP.

Select Yes by using the TAB key

Enter a single IP Address or an IP range to allow : 10.1.10.0/24





Securit I = 100 Set = 7.4.74
line and the line line to the set of the set of the line line line line line line line lin
HOW WOULD YOU TIKE TO ACCESS THE WEB INTERFACE?
Whatever you choose here will be the only way that you can access the web interface.
If you choose something other than IP address, then you'll need to ensure that you can resolve the name via DNS or hosts entry. If you are unsure, please select IP.
IP Use IP address to access the web interface HOSTNAME Use hostname to access the web interface OTHER Use a different name like a FQDN or Load Balancer
<ok> <cancel></cancel></ok>
Security Onion Setup - 2.4.20
Do you want to allow access to this Security Onion installation via the web interface?
(Yes) (No)
Security Onion Seture 2 4 20
Enter a single IP address or an IP range, in CIDR notation, to allow:
10 1 10 0/24
10.1.10.0/61
<ok> <cancel></cancel></ok>

Step 24: Hit TAB to select yes Hit ENTER

	been set,	would you	like to	proceed?	-
Security Onion Version: 2.4.20 Node Type: STANDALONE Hostname: seconion3rd Airgap: True Network: STATIC Management NIC: ens192 Management IP: 10.1.10.22 Gateway: 10.1.10.1 DNS: 10.1.10.14 10.1.10.15 DNS Domain: 3rdplt.dco.mil Proxy: N/A Allowed IP or Subnet: 10.1.10.1 Web User: soadmin@3rdnlt.dco.m	0/24 il				
Press the Tab key to select ye	s or no.				
<yes></yes>		<no:< td=""><td>></td><td></td><td></td></no:<>	>		





Security Onion Setup - 2.4.20 -

STANDALONE setup is now complete!

Access the Security Onion Console (SOC) web interface by navigating to: https://10.1.10.22

Then login with the following username and password.

SOC Username: soadmin@3rdplt.dco.mil SOC Password: Use the password that was entered during setup

Press TAB and then the ENTER key to exit this screen.

Hit TAB to select okay Hit ENTER

Step 25: ON ESXi Go to the Networking tab Under Port Groups

L	Port groups	Virtual switches Physical NICs VI	Ikernel NICs TCP/IP stacks	Firewall rules					
💱 Add port group 🥒 Edit settings 🦿 Refresh 🔅 Actions									
	Name		✓ Active ports	VLAN ID V	Туре 🗸	vSwitch	v VMs	~	
	O VM Network		0	0	Standard port group	Switch0	0		
	🧕 Management	t Network	1	4095	Standard port group	Switch0	N/A		
	🧕 Domain Servi	ices	1	4095	Standard port group	Domain Services	1		
	🧕 Sniffing		1	4095	Standard port group	Sniffing	1		
							1 itor	ma	

-Virtual Switches

- Select Domain Services

To reach the web interfaces you must have to GREEN connections on your switch topology

📇 Add uplink 🥒 Edit settings 🕴 🤆	Refresh 🏠 Actions	
Domain Services Type: Pot groups: Uplinks: Uplinks:	Standard vSwitch 1 1 k redundancy. You should add another uplink adapter. 🚯 Actions	×
▼ vSwitch Details		▼ vSwitch topology
MTU	1500	
Ports	3840 (3822 available)	Domain Services Max Physical adapters
Link discovery	Listen / Cisco discovery protocol (CDP)	VEAN ID: 4095 Virtual Machines (1)
Attached VMs	1 (1 active)	Seconion
Beacon interval	1	MAC Address 00/06:24/91/02:02
✓ NIC teaming policy		
Notify switches	Yes	
Policy	Route based on originating port ID	
Reverse policy	Yes	
Failback	Yes	
* Security policy		
Allow promiscuous mode	Yes	
Allow forged transmits	Yes	
Allow MAC changes	Yes	





Step 26: Log in with the WEB IP assigned 10.1.10.22

**If trouble reaching SecOnion occurs, refer to troubleshooting section about RSA keys

al localhost.localdomain - VMware 🗙 👩 Security Onion 🛛 🗙 🕇			
← → C ▲ Not secure https://10.1.10.22/login/?flow=024a431d-a389-4649-9129-083abea2			
Security Onion			
	Login to Security Onion		
	Password Login		
	Email Address		
	Required.		
	Password	0	
	Passwordless Login (Security Key / WebAuthn / PassKey)		
	Email Address		

Step 27: Credentials

soadmin@3rdplt.dco.mil Standard







Troubleshooting SecOnion Browser: ERR_SSL_Key

When navigating to the WEB IP, browser displays the Error Page: 'The webpage at https://[SecOnion_IP]/ might be having issues, or it may have moved permanently to a new web address. *ERR_SSL_KEY_USAGE_INCOMPATIBLE*'



Hmmm... can't reach this page

It looks like the webpage at https://10.1.10.22/ might be having issues, or it may have moved permanently to a new web address.

✤ Attempt navigating to the WEB IP on Google Chrome

If error persists:

This error displays because the workstation Registry is missing the necessary key to access the page. Add it with the steps below:

- On DCO Workstation, Open Regedit
- Navigate to HKLM/SOFTWARE/Policies
- Right-Click Policies
 - New -> Key -> Name it 'Google'
- Right-Click Google
 - New -> Key -> Name it 'Chrome'
- Right-Click Chrome

New -> DWORD -> 'RSAKeyUsageForLocalAnchorEnabled'



- Open Chrome Web Browser
- Clear All browsing history
- Close and Reopen Chrome
- Navigate to assigned WEB IP
- Enter SecOnion Credentials





Configuring the Security Onion Firewall. By: Cpl Uptmor, Connor J. <u>3rd PLT DCO-IDM</u> LU: 20231010

This document will serve as the guide to configuring your security onion standalone manager after you have already successfully installed your SOM on either your ESXi hypervisor or on a bare metal server.

You will need to allow 3 things through the firewall on security onion

- 1. Your internal IP space.
- 2. Your external firewall IP address.
- 3. Your customer's IP space.

How to get there:

Navigate to the Security Onions home page. Then go to >> Administration >> Configuration

> >> Firewall >>hostgroups

>> elastic_agent_endpoint



Allow Sensors (Forward Nodes) to connect to Manager

You can also navigate to it via the hyperlink and it will take you directly to it.





Configuring your REAL firewall.

(a more detailed guide of how to configure this on the palo alto firewall will be included in the Palo Alto firewall S.O.P.)

In your firewall you need to allow the customer network to send logs through it to the security onion.

This means allowing through the ports that the endpoint agent ships logs over and also the port that it connects over to initiate the initial connection to the SOM.

Default Ports allowed on Palo Alto: 8220 5055 5044 8443

These ports need to be allowed because those ports are what the Elastic Agent uses to forward its traffic to the Security Onion Manager.

*** Only add the top ip in current grid value ***

Filter firewall.hostgroups.ele Filter the items on this page by keyword	List of IP or CIDR blocks to allow access to this hostgroup.
▼ firewall	VIEW DEFAULT
✓ hostgroups	Current Grid Value 10.1.10.0/24
elastic_agent_endpoint 🧪	20.1.10.0/24
	20.1.10.30 10.4.0.0/16





Deploying the Elastic Agent

LCpl Klippel, LCpl Stephens

Deploying the elastic agent on the customers machines requires two things. A short powershell one liner and the elastic_agent_package which is a folder of contents that is needed to install the elastic agent. There is a different elastic_agent_package for windows and linux.

The whole package which includes the powershell script and the folder is already created but should be updated as you update your security onion over time.

As an example or for testing purposes:

- Create 2 VMs with Windows 10
 - SecAgent1 and SecAgent2
 - ➤ Windows Windows 10 (64-bit)

Select creation type	Select a name and gues	t OS				
2 Select a name and guest OS	Specify a unique name and OS					
3 Select storage	Name					
4 Customize settings	SecAgent1					
5 Ready to complete	Virtual machine names can contain u	Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instar				
	Identifying the guest operating syste system installation.	m here allows the wizard to provide the appropriate de	faults for the operating			
	Compatibility	ESXi 7.0 U2 virtual machine	~			
	Guest OS family	Windows	~			
	Guest OS version	Microsoft Windows 10 (64-bit)	~			
		Enable Windows Virtualization Based Security	0			





➤ Save in largest datastore

🛱 New virtual machine - Sec.	Agent1 (ESXi 7.0 U2 virti	ual machi	ne)					
1 Select creation type	Select the storage type and da	atastore						
2 Select a name and guest OS	Standard Persistent	Memory						
3 Select storage			J					
4 Customize settings	Select a datastore for the vir	tual machine	's configuratio	n files and all	of its virtual di	sks.		
5 Ready to complete								
	Name	~	Capacity 🗸	Free 🗸	Туре 🗸	Thin provision	Access	~
_~	datastore1		319 GB	231.34 GB	VMFS6	Supported	Single	
<u>ل</u>	datastoreBig		27.94 IB	27.77 18	VMF56	Supported	Single	
				CAN	CEL BA	СК	хт	

- ≻ 2 CPUs
- 8GB Memory
 32GB Storage, thin-provisioned
- ≻ Win10.iso



A	
KE	

1 Select creation type	🖨 Add hard disk 🛛 🚊 Add n	etwork adapter 🛛 🧾 Add other devi	ce
2 Select a name and guest OS	> 🗊 CPU	2 ~ 🜖	
3 Select storage		8 GB ~	
4 Customize settings	> 🎹 Memory		
5 Ready to complete	> 🔄 Hard disk 1	32 GB ~	×
	> 🔆 SCSI Controller 0	LSI Logic SAS	~ ×
	SATA Controller 0		×
	⊷ USB controller 1	USB 3.1	~
			×
	> 🗒 Network Adapter 1	Domain Services	✓ ✓ Connect
			×
	∽ 🚱 CD/DVD Drive 1	Datastore ISO file	V Connect
			×
	Status	Connect at power on	
	CD/DVD Media	[datastore1] ISO/Win10.iso	

- Power On
 - (press ENTER if required to "boot normally")
- Set language/time currency to 'English' -> Next

🖆 Windows Setup
- Windows [•]
Languag <u>e</u> to install: English (United States)
Time and currency format: English (United States)
Keyboard or input method: US
Enter your language and other preferences and click "Next" to continue.

- Install Now
- 'I don't have a product key'





Windows 10 Pro -> Next

erating system	Architecture	Date modif
ndows 10 Home	хб4	5/5/2023
ndows 10 Home N	хб4	5/5/2023
ndows 10 Home Single Language	х64	5/5/2023
ndows 10 Education	хб4	5/5/2023
ndows 10 Education N	хб4	5/5/2023
indows 10 Pro	хб4	5/5/2023
indows 10 Pro N	хб4	5/5/2023
ndows 10 Pro		

Accept license terms -> Next





Custom Install -> Drive0 -> Next





()	🄏 Windows Setup					×
	Where do you w	vant to install Win	dows?	-		1
_	Name		Total size	Free space	Туре	
	* <u>R</u> efresh	Delete	Eormat	<mark>∦</mark> N <u>e</u> w		
	Load driver	Extend				
					Next	

- Allow time for install
- VM should restart automatically / If not, restart manually
- Select 'US' keyboard layout -> Next





Let's start with region. Is this right?

U.S. Minor Outlying Islands	
U.S. Virgin Islands	
Uganda	
Ukraine	
United Arab Emirates	
United Kingdom	
United States	
	-
	Yes

Is this the right keyboard layout? If you also use another keyboard layout, you can add that next.

US	^
Canadian Multilingual Standard	
English (India)	
Irish	
Scottish Gaelic	
United Kingdom	
United States-Dvorak	~

Skip second keyboard layout





Want to add a second keyboard layout?

200	
Add layout	Skip

'I don't have network'

Let's connect you to a network To finish setup, you'll need to connect to the internet.								
	Network No Internet							
I don't have internet								





'Continue with limited setup'

Advanced Security and Privacy Protect and secure your device and personal data Free access to Office Online, Outlook, Skype, and more Office Online, Outlook, Skype, Free OneDrive cloud	Microsoft account	
Free access to Office Online, Outlook, Skype, and more Office Online, Outlook, Skype, Free OneDrive cloud	y and personal data	
storage, and more	Dutlook, Skype, and	
Unlock the best Windows 10 features Sync photos from your Android phone, pick up where you left off, and more	features phone, pick up where	

- Create 'DCOadmin' account -> Next
- Shop standard password -> Next -> Confirm Password -> Next

Who's going to use this PC? What name do you want to use?	
R	
DCOadmin	
	Next





Select security questions -> Answer: 1721

Create security ques Just in case you forget your password, choose 3 securit	stions for this account y questions, and make sure your answers are unforgettable.
	2
What was your first pet's name?	\checkmark
1721	×
	Next

Check 'No' for all options -> Accept

Choose privacy settings for your device

Microsoft puts you in control of your privacy. Choose your settings, then select 'Accept' to save them. You can change these settings at any time.

Location

You won't be able to get location-based experiences like directions and weather or enjoy other services that require your location to work. lose it.

lacksquare) No

Diagnostic data

Send only info about your device, its settings and capabilities, and whether it is performing properly. Diagnostic data is used to help keep Windows secure and up to date, troubleshoot problems, and make product improvements.



Tailored experiences

The tips, ads, and recommendations you see will be more generic and The number of ads you see won't change, but they may be less may be less relevant to you.



Select 'Learn more' for info on the above settings, how Microsoft

Find my device

Windows won't be able to help you keep track of your device if you



Inking & typing

Don't use my diagnostic data to help improve the language recognition and suggestion capabilities of apps and services running on Windows



Advertising ID

relevant to you.



Accept



'Not Now'





- Allow time for configuration
- Navigate to 'Change Workgroup Name'

9	All	Apps	Documents	Web	More 🔻							×				
Micros	Best n	natch														
Edg	2	Change Control p	workgroup n	ame					-							
	Settin	gs														
	چ چ د	- how whic omputer	ch workgroup is on	this	>			Chan	ige wo	orkgroup Itrol panel	name		1			
	Search	n the web														
	, م	/orkgrou	p - See web resu	ılts	>	ď	Open									
																k
	ρw	/orkgrou	p			Ξi	0			<			~ ĝ	t 🕀 ସ₂	9:16 AM 3/4/2024	5





✤ Add VM to 3rdplt.dco.mil







Enter 'Administrator' credentials

Windows Security	×
Computer Name/Doma	in Changes
Enter the name and password of join the domain.	an account with permission to
User name	
Password	
ОК	Cancel
Computer Name/Domain	Changes ×
Welcome to the	3rdplt.dco.mil domain.
	ОК

Restart agent VMs





For Shop/Testing use:

- On VM, open a web browser and navigate to SecOnion
 - > If prompted for Microsoft Edge, select 'complete setup' and close prompt
- Sign in to SecOnion with soadmin credentials

Navigate to Downloads

	SecAgent1								🏟 Actio	ons 🗙
	Security Onion × +								٥	\times
÷	ightarrow C $ ightarrow$ Not secure $ $ https://	//10.1.10.22/#/downl	oads			τõ	£≡	œ	۲	
A	overview nion								2	Â
	Alerts									
G	Dashboards									
¢	Hunt		sure to <u>allow r</u>	<u>ietwork access tl</u>	nrough the firewa					
•	Cases									
=	PCAP									
器	Grid									
*	Downloads									
*	Administration nstallers, you ca	in get them from e	c <u>Elastic Fleet</u> I <u>lastic.co</u> .	nstallation. Thes	e files are not siç	gnea. Ir y	you nee	ea sign	ea non	
Tools										
Ľ	Kibana									
Ľ	Elastic Fleet									
ß	Osquery Mana		Ì	t						
Ľ	InfluxDB									
ß	CyberChef	© 2024 Se	ecurity Onion S	olutions, LLC				Licen	se: ELv	2
	✓ Type here to search	Et () 📄 🕯			Ē	^ €	9: \$2 3/	36 AM 4/2024	2

- Select 'Windows x86_64 installer'
 - ➤ Do not open file
 - > If denied for maliciousness, select 'Keep' under the download drop down





SecAgent1		🖬 🖬 🔤 🏟 Actions 🗙
Security Onion x +		– 0 ×
← Security Onion 0.1.10.22/#/d	downloads	☆ ☆ @ ⊌
10.1.10.22	Downloads	
= Security@nion	so-elastic-agent_windo	pws_amd64.exe
Downloads	Open file	
	so-elastic-agent_windo Couldn't download - Netwo	ows_amd64.exe
When installing the Elastic Agent onto remote systems	s, be sure to allow net See more	
Windows x86_64 Installer Linux x86_64 Installer macOS x86_64 Installer macOS arm64 Installer These Elastic Agent installers are customized for this sp customized Elastic Agent installers, you can get them from	pecific <u>Elastic Fleet</u> installation. These files are om <u>elastic.co</u> .	e not signed. If you need signed non-

- From File Explorer -> Downloads, run package as Administrator
 - > When prompted for changes, select Allow
 - ➢ If SmartScreen prompt appears, select 'Run'
- On workstation, Navigate to Elastic Fleet via Security Onion and verify agent installation

Fleet							
Agents Ager	nt policies Enrollment token	ns Data streams Settings					
🛐 Ingest Overvie	aw Metrics 🛛 📅 Agent Info Me				() Agent activity	Add Fleet Server	Add agent
Q Filter your da				Status 👍 🗸	Tags 🛈 🗸 Age	ent policy 🖪 🗸 Upg	grade available
	Clear filters			• He	ealthy 🖪 🔹 Unhealth	ny 0 • Updating 0	Offline
Status	Host	Agent policy	CPU 🕥	Memory ()	Last activity	Version	Actions
Healthy		endpoints-initial rev. 6			8 hours ago	8.8.2	
	DESKTOP-BN61IOH	endpoints-initial			8 hours ago	8.8.2	
Healthy		rev. 6					
Healthy		rev. 6 so-grid-nodes_general rev. 20			8 hours ago	8.8.2	





For Customer use:

- On Workstation, navigate to: Security Onion -> Elastic -> Add Agent
- Under '1' Select 'endpoints-initial'



- Scroll down to '3' and select Windows
- Copy the given script to the clipboard

😔 elastic			Find apps, content, and more.	·// Ø	🕅 s
E D Fleet	Agents				nd feedback
	Fleet Centralized ma			Add agent Add Elastic Agents to your hosts to collect data and send it to the Elastic Stack.	
	Agents Agent Ingest Overvie Ingest Overvie Ingest Overvie Ingest Overvie	nt policies Enrollment tok ew Metrics 🗟 Agent Info N ata using KQL syntax Clear filters	ens Data streams Settings Aetrics	Install Elastic Agent on your host Select the appropriate platform and run commands to install, enroll, and start Ela Agent. Reuse commands to set up agents on more than one host. For aarch64, s our downloads page &. For additional guidance, see our installation docs &. Linux Tar Mac Windows RPM DEB Kubernetes	istic see
	Status Host A Healthy DESKTOP-KGORRHQ error Healthy DESKTOP-BN61IQH error Healthy Seconion3rd error Healthy FleetServer-seconion3rd Free		Agent policy endpoints-initial rev. 8 endpoints-initial rev. 9 so-grid-nodes_general rev. 20 FierEsever_seconion3rd	<pre>\$ProgressPreference = 'silentlyContinue' Invoke-WebRequest -Uri https://artifacts.elastic.co/downloads/beats/e Expand-Archive .velastic-agent-8.8.2-windows-x86_64.zip -DestinationP of elastic-agent.exe install -url=https://10.1.10.22:8220enrollmen </pre>	Î.
	Rows per page: 20	~			





- Open 2 notepad files -> Named pulldown.ps1 and customerdeployment -> Save to Desktop -> SecOnion_Deployment
- Paste into the first file (pulldown.ps1)
- Cut from 'cd elastic' to '--enrollment-token=[enrollment-token]=='
- Paste into second file (customerdeployment)
- On pulldown.ps1:
 - Between 'http://' and 'artifacts', insert '[seconion_ip]:8443/'
- On customerdeployment:
 - Insert '--insecure' before '--url=https:[customer_ip]'
 - ***Note:*** Enrollment token must match the running version of Security Onion. Each Security Onion instance will create its own unique token.

I pulldown.ps1 - Notepad	_		\times
File Edit Format View Help			
<pre>\$ProgressPreference = 'SilentlyContinue'</pre>			~
Invoke-WebRequest -Uri http://10.1.10.22:8443/artifacts/beats/elastic-agent/elastic-agent-8.8.2-windows-x86_64.zip -OutFile elastic-agent-8.8.2-windows-x86_64.zip -OutFile el	86_64	.zip	
Expand-Archive .\elastic-agent-8.8.2-windows-x86_64.zip -DestinationPath .			
Customerdeployment - Notepad	-		×
File Edit Format View Help			
cd elastic-agent-8.8.2-windows-x86_64			^
.\elastic-agent.exe installinsecureurl=https://10.1.10.22:8220enrollment-token=VkxUcmhJMEJnY21CSnp1VnBBbzE6NU5mVTg3cHVRcUdsMjRwQkJEd3RmUQ==			

On Workstation, Run Powershell as administrator

- Cd C:\Desktop\SecOnion_Deployment
- Set-ExecutionPolicy Bypass
- ≻ .\pulldown.ps1
- **Note:** running this script will produce two files, one zipped and one unzipped

Set-ExecutionPolicy bypass
.\pulldown.ps1

On ESXI, add *customerdeployment* and both produced files to the datastore

Monitor ~ 뮵 Virtual Machines ~ 탑 SecOnion	Datastore browser ↑ Upload ↓ Downl	oad 📋 Delete 斗 M	ove 🖻 Copy +🗁 Cre	ate directory 🕴 Ċ Refresh		
Monitor Monitor SecAgent2 SecAgent2 Dc2 Dc1 More VMs SecAge datastoreBig Monitor Monitor Monitor	문 datastore1	sdd.sf Arkime SecAgent1 SecAgent2 SecOnion Deploy SecOnionD2	customerdeploym elastic-agent-8.8 pulldown.ps1.ps1			
✓ Networking □ vmnic4 > Q Domain Serv More network	H [datastoreBig] SecOnion	n Deployment/	H		close	ompleted ▼ ∽
		_	_		 	





- On VM, open a Web Browser and navigate to ESXI
 - > Download both files from the datastore to Desktop\SecOnion
 - ➤ Run Powershell as administrator
 - Set-ExecutionPolicy Bypass
 - > .\customerdeployment
 - When prompted to continue, enter y for yes

Director	y: C:\Users\D	COadmin\De:	sktop\SecOnion	
Mode	Last	WriteTime	Length	Name
d	3/4/2024	10.40 AM		
	3/4/2024	10:49 API	107	Elastic-agenc-o.o.z-winduws-X00_04
- d	5/4/2024	10:47 AM	10/	customer deployment.ps1
-a	3/4/2024	10:49 AM	261325650	elastic-agent-8.8.2-windows-x86_64.21p
-a	3/4/2024	10:47 AM	282	pulldown.psl.psl
PS C:\Users\ Elastic Ager {"log.level" ng enrollme {"log.level" ing enrollme {"log.level" ne":104},"me Error: fail rget machine For help, p Error: enrol	DCOadmin\Desk it will be ins ':"warn", "@tim 'ssage":"SSL/T ':"info", "@tim ent to URL: ht ':"warn", "@tim :ssage":"SSL/T to enroll: fa : actively ref .ease see our 1 command fai	top\SecOnic talled at (estamp":"2("LS verifics" estamp":"2(tps://10.1 mestamp":"2("LS verifics" full to exect full to exect	<pre>chyperimetry of the second secon</pre>	<pre>deployment.ps1 es\Elastic\Agent and will run as a service. Do you want to continue? [Y/n]:y s158.766-08000,"log.logger":"tls","log.origin":{"file.name":"tlscommon/tls_config.go","file.li d.","ecs.version":16.60"} 3:59.803-08000,"log.origin":{"file.name":"cmd/enroll_cmd.go","file.line":478},"message":"Start "ecs.version":16.60"} 4:00.061-08000,"log.logger":"tls","log.origin":{"file.name":"tlscommon/tls_config.go","file.li d.","ecs.version":1.6.0"} fleet-server: dial tcp 10.1.10.22:8220: connectex: No connection could be made because the ta https://www.elastic.co/guide/en/fleet/8.8/fleet-troubleshooting.html</pre>
For help, pl	ease see our	troublesho	oting guide at	https://www.elastic.co/guide/en/fleet/8.8/fleet-troubleshooting.html nt-8.8.2.windows-x86.64

 On Workstation, navigate to Elastic Fleet via Security Onion and verify agent installation

😔 elastic			Find apps, content, and more.			^/			¢ &	s
E D Fleet	Agents								🖄 Send fee	dback
	Fleet Centralized ma	anagement for Elastic Agen at policies Enrollment token								
	🗐 Ingest Overvie	w Metrics 🛛 📆 Agent Info Me		() Agent activity		Add agent				
	Q Filter your data using KQL syntax						nt policy 🖪 🗸 U	pgrade available		
	Showing 4 agents	Clear filters			• He	ealthy 🖪 🔹 Unhealth	y 🚺 🔹 Updating (0 ● Offline 0		
	Status Host Agent policy CPU 🕥									
					Memory (Last activity	Version	Actions		
	Healthy		endpoints-initial rev. 6	N/A ()	N/A 3	Last activity 8 hours ago	Version 8.8.2	Actions		
	Healthy Healthy	DESKTOP-KGORRHQ DESKTOP-BN61IQH	endpoints-initial rev. 6 endpoints-initial rev. 6	N/A O	N/A ()	Last activity 8 hours ago 8 hours ago	Version 8.8.2 8.8.2	Actions		
	Healthy Healthy Healthy Healthy	DESKTOP-KGORRHQ DESKTOP-BN611QH seconion3rd	endpoints-initial rev. 6 endpoints-initial rev. 6 so-grid-nodes_general rev. 20	N/A (0) N/A (0)	метогу () N/A () N/A () N/A ()	Last activity 8 hours ago 8 hours ago 8 hours ago	Version 8.8.2 8.8.2 8.8.2 8.8.2	Actions		
	Healthy Healthy Healthy Healthy Healthy Healthy	DESKTOP-KSORRHQ DESKTOP-BN61IQH seconion3rd FleetServer-seconion3rd	endpoints-initial rev. 6 endpoints-initial rev. 6 so-grid-nodes_general rev. 20 FleetServer_seconion3rd rev. 4	N/A (0) N/A (0) N/A (0) N/A (0)	Memory (3) N/A (0) N/A (0) N/A (0)	Last activity 8 hours ago 8 hours ago 8 hours ago 8 hours ago	Version 8.8.2 8.8.2 8.8.2 8.8.2 8.8.2 A	Actions		

NOTE

in the powershell script the ip address of your elastic host needs to be changed to the external ip address of your firewall (if you are re-creating the elastic_package at anytime)





Enabling Alerts in Elastic

In the security tab in Kibana there is a link for alerts. In this page you will be able to manage the rules that trigger and alert. Enable all of the rules to alert that has an integration capable of triggering that rule.

Navigate to Security Onion. Under Tools, select Kibana.

= <u>Security</u> Onion								
据 Grid	Alerts		Options					
🛓 Downloads								
X Administration	Q 🗸 Group By Name, Module							
Lisers								
💙 Grid Members								
Configuration				Fetch Limit	_			
🔑 License Key								
Tools		Count	•					
🕑 Kibana <					No data a			
C Elastic Fleet								
C Osquery Mana								

Navigate to Management and select Stack Management.

🔿 elastic		Q Find apps, content, and more.
Dashboard Securit	y Onion - Home 🗸	
☐ Home	ing 🗙 syntax	
Recently viewed ~		COURT
		● iam
Manage Management		
Integrations		
Osquery Stack Management		
Add integrations		

In the drop down on the left, scroll down and select Spaces.





Select 'Edit' (pencil icon) under Actions.

Spaces				Create space
Organize your dashboards	and other saved objects into meaningful	categories.		
Q Search				
Space	Description	Features	Identifier	Actions
Default	This is your default space!	23 / 32 features visible		
Rows per page: 10 🗸				

Navigate to Features and checkmark Security

-eatures		
Set feature visibility	Feature visibility	
didden features are removed from the user interface, but not disabled. To secure inccess to features, manage security roles.	🗖 🌠 Analytics	
	Enterprise Search	
	Observability	
₽	Security	
	Management	
Л		





- ➤ Update Space and confirm.
- Open a second Kibana tab from Security Onion.
- Navigate to Security and select Alerts.
- Select Manage Rules.

😽 elastic	Q Find apps, content, and more.		*/	© & s
Security Alerts			ML job settings 🗸 🗟 Add integrations Dat	a view Alerts 🗡
Security			🛗 ~ Today	ි Refresh
Dashboards %	Alerts		⇔	Manage rules
Timelines Cases	Status open 1 V Severity	Viser	Host	• • • • •
Explore 88 Intelligence	✓ Summary Trend Counts Treemap			
	Severity levels	Alerts by name	Top alerts by host.nam	ie ~
	Levels Count \downarrow	Rule name Cour	nt ↓ host.name ③	
	• Low 1 1	My First Rule	1 seconion3rd	100%
S GET STARTED				
Manage 88	① Untitled timeline			

- Load prebuilt rules
- Click on Select All [#] rules
 - > Select Bulk Actions and click enable from the pop up.
 - > *after it loads there should be 47 rules that have errors, this is normal*

🔿 elastic		Q Find apps, content, and more.			^/		© & s
E D Security Manag	Rules					ML job settings $ \!$	Add integrations
Security	Rules					신 Import rules	① Create new rule
Dashboards 88 Alerts	Rules Rule Monitoring	ı					
Findings Timelines	Q Rule name, index pat Showing 1-20 of 806 rules	tern (e.g., "filebeat-*"), or MITRE ATT& Selected 0 rules	CK™ tactic or technique (i Bulk actions ❤ _ C Ref	e.g., Tags 57 v resh Refresh settings v	Elastic rules (806) Cust	om rules (0) Enabled	Irules Disabled rules Updated 51 seconds ago
Cases Explore	Rule		Risk score	Severity Last run	Last response Last up	odated Notify	Enabled \downarrow
Intelligence	AWS WAF Access C	control List De (© 0/1 integrations	s @ 5 47	Med 8 hours ago	• Warn 8 hou	rs ago	000 DOD



😪 elastic ≡ 💿 💿

> Dashboar Alerts Findings Timelines Cases Explore

Intelligence

S GET STARTED

Mana

Security

88

	Q Find apps, content, and more	2.					^/			Ø	\$.
les	Options								1L job settings 🗸	🗟 Add inte	grations
Rules	Enable									🕀 Create ne	w rule
Dulos Dulo Marita	Duplicate									_	_
	Index patterns >										
Q Rule name, index	Tags >				., " Ta	gs 57 ~	Elastic rules (806	5) Custom ru	les (0) Enable	d rules Disable	d rules
		3ull	k actions N								
🖌 Rule	Update rule schedules			Risk score	Severity	Last run	Last response	Last updated	Notify	Enabled \downarrow	
AWS VPC Flow L	Apply Timeline template		Ø 6		 High 	8 hours ago	• Warn	8 hours ago			
AWS WAF Acces	Export		Ø 5		• Med	8 hours ago	• Warn	8 hours ago			
AWS IAM Assum	Disable		Ø 6		• Low	8 hours ago	• Warn	8 hours ago			
AWS CloudTrail			Ø 5		• Low	8 hours ago	• Warn	8 hours ago		~	
🗹 My First Rule			Ø 4		• Low	8 hours ago	• Succ	8 hours ago			
Process Injection			@3	47	• Med	8 hours ago	• Warn	8 hours and	\sim		

Enabling Playbook Alerts in Security Onion

 From the security onion homepage navigate to the Playbook link on the left hand side of the page







- Once you are in the detection playbook, select the "select all box" at top of chart.
- Click on 3 dots under "Actions" to set "Status" to "Active".
 - > *A few will stay as Draft status which is normal*

×,*×	DETE	CTION PL	AYBOOKS	Searc	ch:	Detection Playbooks V				
	Activity Playbook Create New Play									
Pla -~1 2 ->1	iyboc Filters Status Options	ik _{Clear}		open 🗸	Adı	filter		Custom que Active Plays All Plays Draft Plays Inactive Plays Playbook - Co Playbook - In	rries s ommunity Sigma ternal	
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~	303	Draft	high	community	Remote Thread Creation Ttdinject.exe Proxy	02/28/2024 02:11 m			Durk	
~	302	Draft	high	community	Remote Thread Creation Via PowerShell In Rundll32	02/28/2024 02:11 PM	/ Edit	hue	Active	
2	301	Draft	high	community	Potential Credential Dumping Attempt Via PowerShell Remote Thread	02/28/2024 02:11 PM	Play	/book		
.	300	Draft	medium	community	Remote Thread Creation Via PowerShell	02/28/2024 02:11 PM	i≘ Filte	er		
.	299	Draft	high	community	Password Dumper Remote Thread in LSASS	02/28/2024 02:11 PM	📑 Cop	у		
.	298	Draft	high	community	Remote Thread Creation In Mstsc.Exe From Suspicious Location	02/28/2024 02:11 PM	🗊 Del	ete		
~		Draft	high	community	CreateRemoteThread API and LoadLibrary					
.	296	Draft	high	community	Remote Thread Created In KeePass.EXE	02/28/2024 02:11 PM				
~	295	Draft	high	community	HackTool - Potential CobaltStrike Process Injection	02/28/2024 02:11 PM				
.	294	Draft	high	community	HackTool - CACTUSTORCH Remote Thread Creation	02/28/2024 02:11 PM			tivate Windows	
×	293	Draft	medium	community	WMI Persistence	02/28/2024 02:11 PM				
https://10	1 10 22/n	Deot	s/bulk undate?	back url=%2Eplaybr	Microsoft Defender Tamper Protection Trigger					

It will bring you to a new tab for the play book. From here you are going to click on "All Plays" and select all of them that you can on the page. Then click the three dots and select "active" and will enable all of those rules. Yes you have to manually do this for each page of alerts and it is tedious.

Adding Integrations

In the elastic stack within security onion you can add integrations to your elastic endpoint agent dynamically without having to reinstall the endpoint on each device after adding the integration.

To access the integrations page you will navigate to Kibana, then on the left hand side scroll all the way down and click on the integrations link. This will bring you the page with all of the integrations that are available to add.





Security Onion Baselining

Initial baselines give a control point as a reference. Comparing and knowing what normal logs and/or traffic look like is necessary to finding malicious traffic

- Collecting live OS-Queries
 - > security onion application -> tools (bottom left corner) -> OS-query Manager
 - > OS-query Manager -> new live query -> input platform and pack you want to run
 - Add to case (clipboard) -> create case -> name the case based on query being ran -> add a brief description ->create description

There are pre-loaded packs that will pull various os information on selected agents, the baseline will give a control sample on what the network looks like prior to any adversary action.

- View created cases
 - > go to <u>https://10.x.x.x</u>(Security Onion IP)/kibana/app/observability/cases

Once malicious activity has been detected within the network, these cases can be monitored for detection alerts.