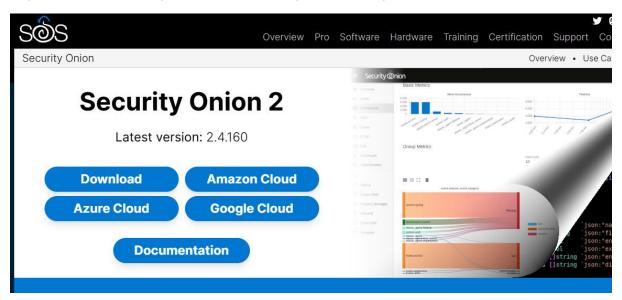
## Security Onion installation

Download the security onion from the below link.

https://download.securityonion.net/file/securityonion/securityonion-2.4.160-20250625.iso



It will .iso file.

First read the important work at end of this notes.

## The process of installation is given below

- Go to vmare
- Open new virtual machine
- Select the file as like we do before for other machine installation like ubuntu
- Select 2<sup>nd</sup> option for install now by browsing the file location
- Name this machine securityonion.
- Select machine type of **Linux** and type of **CentOS 64bit**. As like we do for ubuntu as select the software linux and type ubuntu 64bit.
- The purpose of select CentOS 64bit is that it is linux base and have centos kernel based.
- **NOTE:** after all setting before finish go to hardware setting and 2 new network adapter in this machine. According to lab
- 2<sup>nd</sup> is at vmnat3 and 3<sup>rd</sup> at vmnat5 and 1<sup>st</sup> at NAT.
- RAM require 16 GB and ROM 200 GB
- Then finish it and power on the machine.



- Here we chose the 1<sup>st</sup> option and press enter
- We use tab and enter key in this setup.
- Then write yes and press enter.

```
***********************************
##
           ** WARNING **
                                       ##
##
                                       ##
                                       ##
## 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 entire word 'yes' to proceed.) yes
```

- Then enter the username and password that you want to take
- I using admin and Admin@12345 in my case.

```
Enter an administrative username: admin

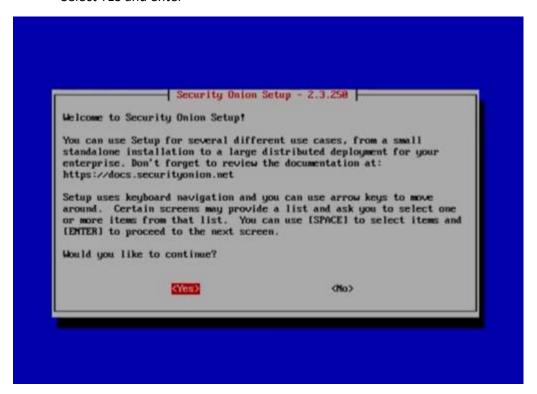
Let's set a password for the admin user:

Enter a password:

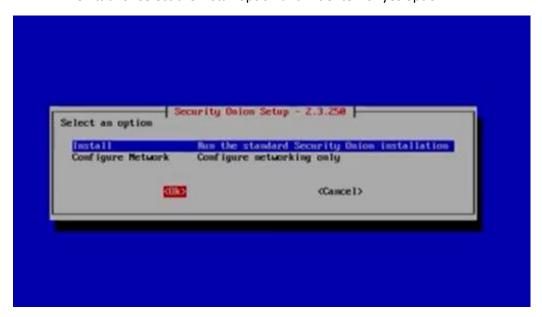
Re-enter the password:
```

- After this installation will start, it will take time as compare to other machines.
- When it complete then hit enter and restart is start.
- Then login again and installation settings will start.

Select YES and enter



• Then tab for select the install option and hit enter for yes option.



• Select EVAL(evaluation first option) and then hit enter for ok

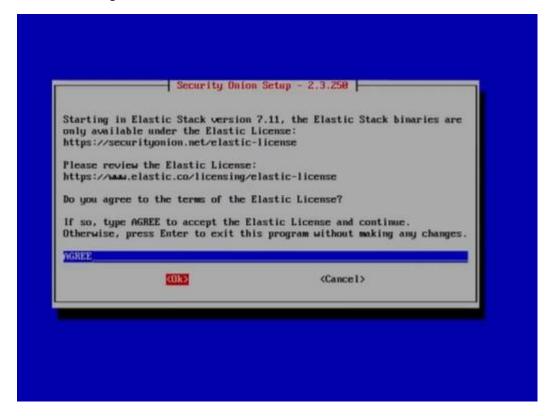
```
Choose install type.
See https://docs.securityonion.net/architecture for details.

(-) EVAL.

(-) EVALUATION mode (not for production)
(-) STANDALONE Standalone production install
(-) DISTRIBUTED Distributed install submenu
(-) IMPORT Standalone to import PCAP or log files
(-) OTHER Other install types

(Cancel)
```

Write agree and then hit enter



• if you want to change the username do in this step and then hit enter by tab to move at ok button.

```
Enter the hostname (not FQDM) you would like to set:

securityonion

(Ok)

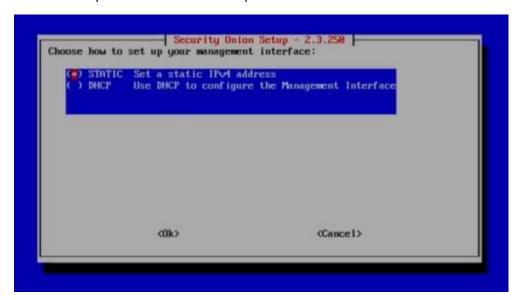
(Cancel)
```

• Then select use anyway option and hit enter, to ensure that username you want ot use.



- Here it ask for select management nic, the first is our management interface.
- Here you use spacebar for select it(star appear on selected option) and then hit enter.

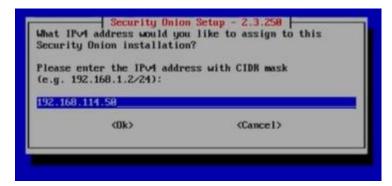
Here you choose to use static ip and hit enter



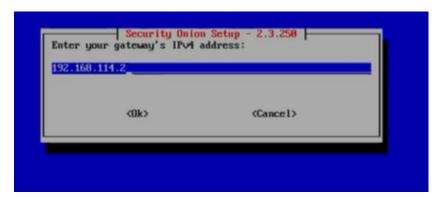
• Then enter the ip

192.168.144.50/24

• Enter ip with subnet mask as write above. Then hit enter.



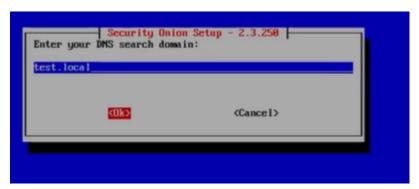
Enter the gateway and hit enter



• Enter DNS server , I use default and hit enter



• Here enter the DNS name by which you access the web for security onion.



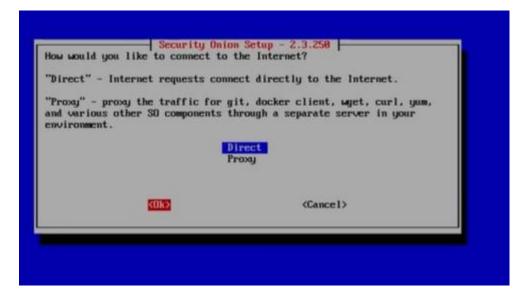
• Hit okay in this step



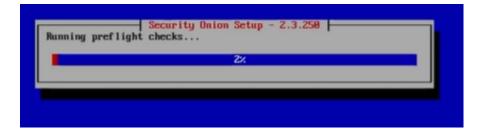
• Here select standard and hit enter



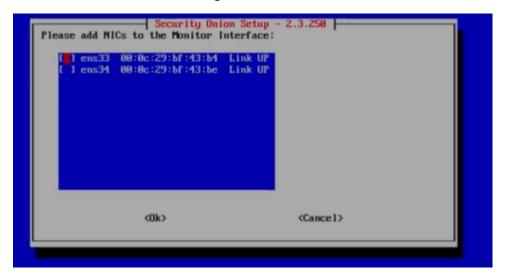
- Here we select Direct and hit enter
- Because we directly connected with internet without proxy



- Then this start.
- It will takr some time.



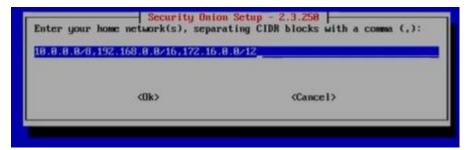
Here select the monitoring interface ens33 and hit enter



Here select the automatic and hit enter

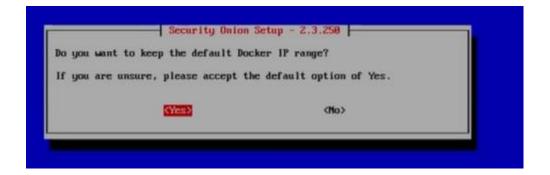


- Here select the allowed subnet and hit ok.
- I use default

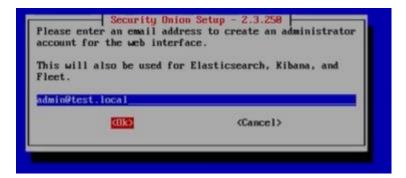


• This take as default and hit ok

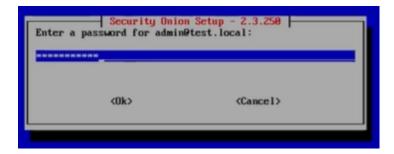
• Select Default Docker and hit enter



- Here enter email for administrator and hit enter
- I use admin@testlocal



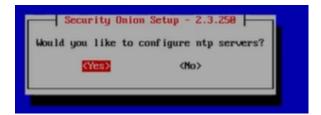
- Here enter password
- I use same as before Admin@12345



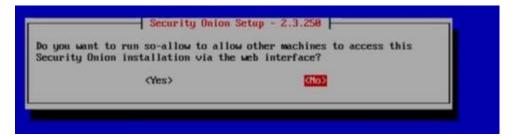
- Here it say how to access the interface
- I select ip and hit enter



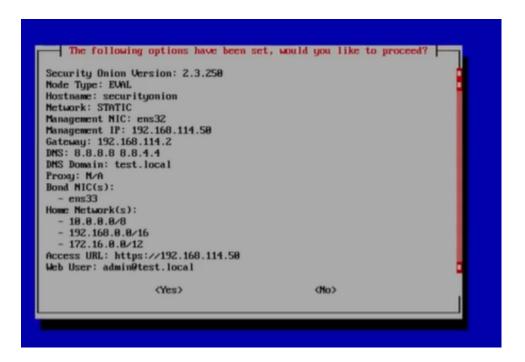
Hit at yes for config NTP



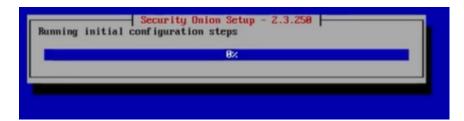
Her select NO, because we allowed it later.



• Then summery will appear, select yes and hit enter



It take time 10 – 15 minutes.



When it complete you login in it

```
CentOS Linux 7 (Core)
Kernel 3.18.8-1168.98.1.el7.x86_64 on an x86_64

securityonion login: admin
Password:
Last login: Sat Jun 24 18:48:43 on tty1

Access the Security Onion web interface at https://192.168.114.58

(You may need to run so-allow first if you haven't yet)

**The following nodes in your Security Onion grid may need to be restarted due to package updates. *

* If the node has already been patched, restarted and been up for less than 15 minutes, then it *

* may not have updated it's restart_needed status yet. This will cause it to be listed below, even *

* if it has already been restarted. This feature will be improved in the future. *
```

• In above image you see that ip is 192.168.144.50 that I give to it.

## Important work

You will face problem in internet ip that you have.

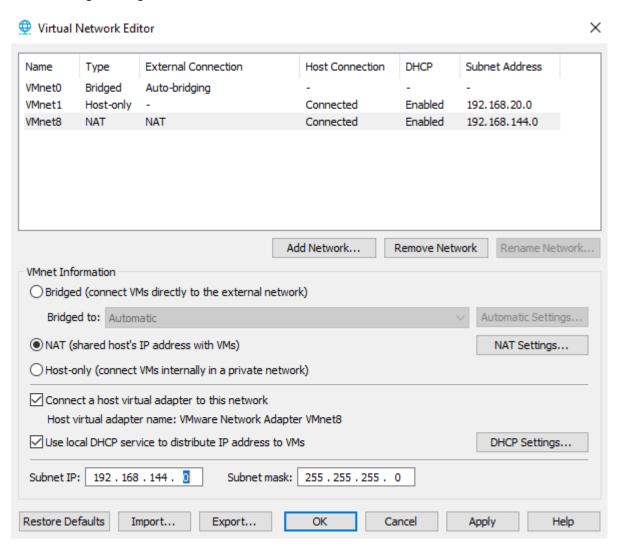
I will have 192.168.144.\*

In your case it will be same 16 bit but next 16 bit were change.

## **❖** Case 1:

Go to virtual text editor

Click at change settings and select NAT from above.



Change your subnet ip at 192.168.144.0 and then check the gateway ip

Go to control panel -> network and internet -> network connection

Here select the vm adapter and check the gateway that youenter in the onion

In this you can use ip according to ip address range and select ip according to your own network .
complete

Case 2: