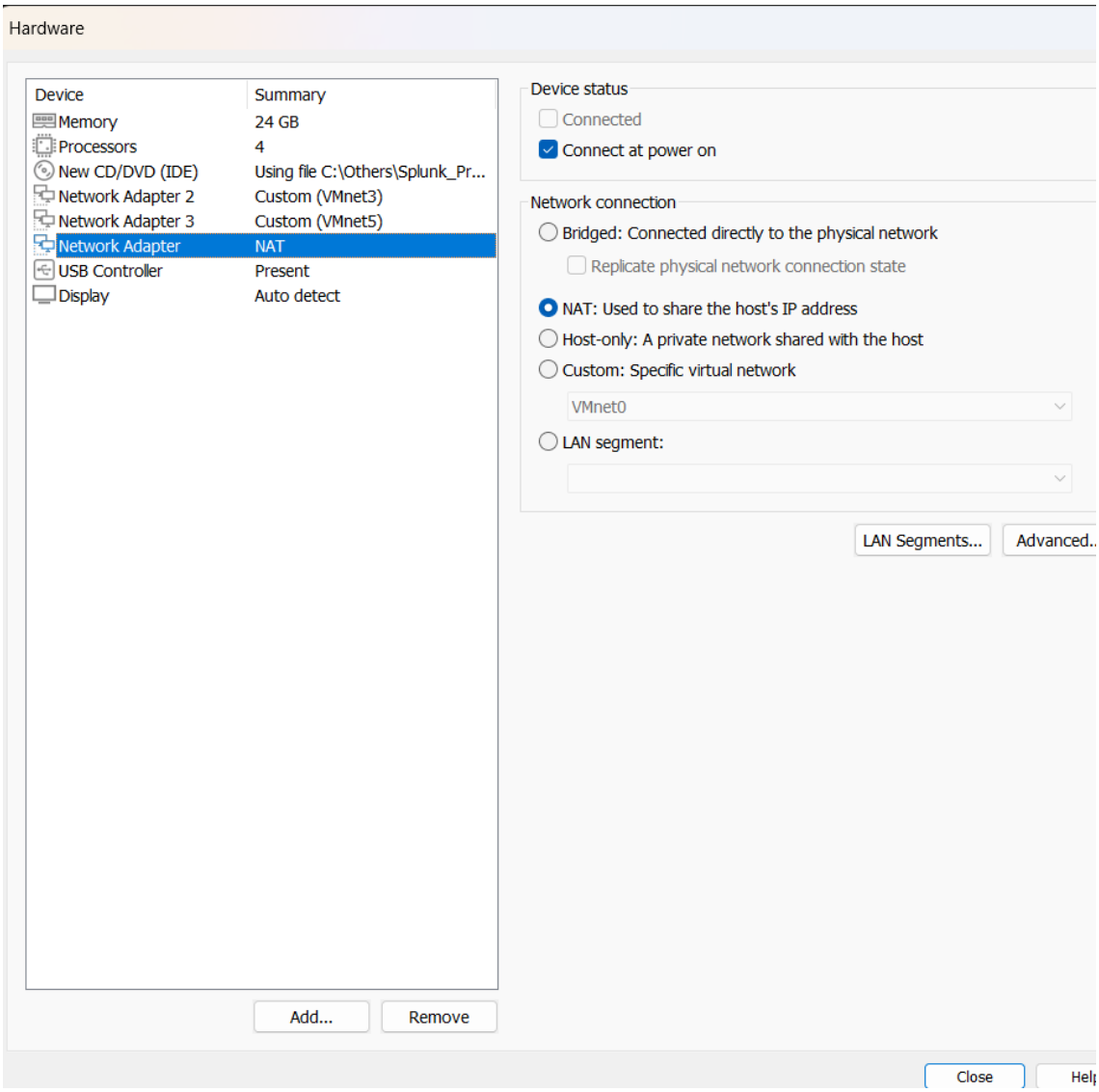
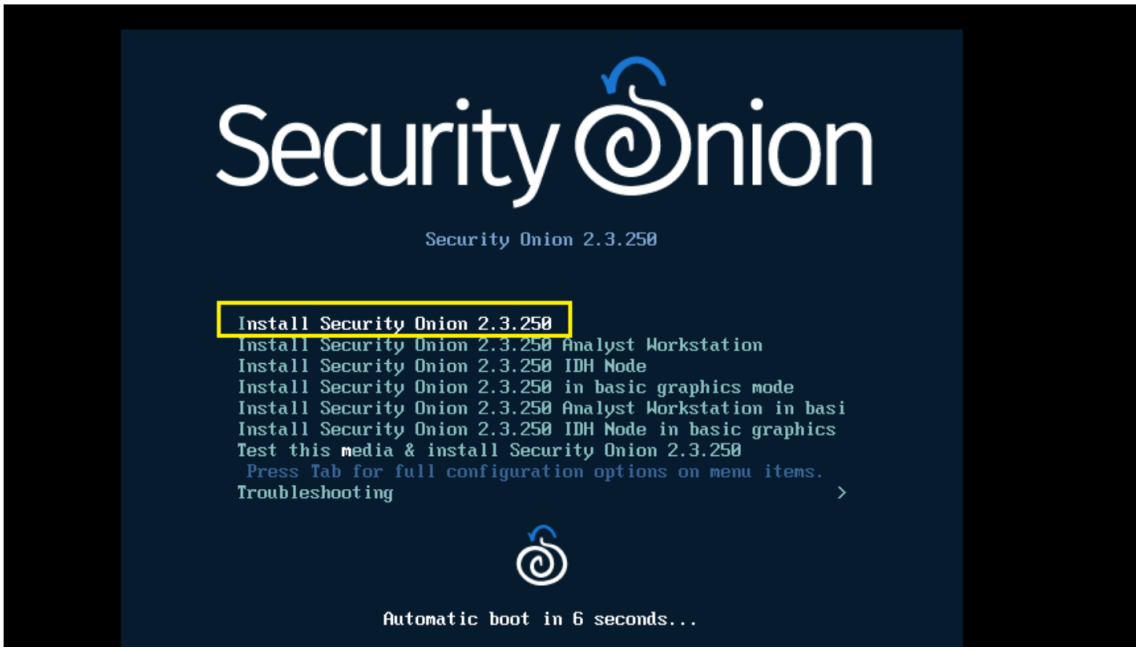
# Security Onion Installation

Download Security Onion, I used version 2.4.100-20240903.

1. **Create a New Virtual Machine** and choose **Typical**
2. Browse **securityonion-2.4.100-20240903.iso**
3. Name the virtual machine and Next
4. Configure Maximum disk size to **250GB** and **Store virtual disk as a single file**
5. **Customize Hardware** and change memory to **16GB or more**, processors to **4**. Then **Add two Network Adapter**. Network Adapter(NAT) is connected to public network,
6. Network Adapter 2(VMnet3) is SPAN port to receive traffic copies from LAN, Network Adapter 3(VMnet5) is under subnet 192.168.4.x/24

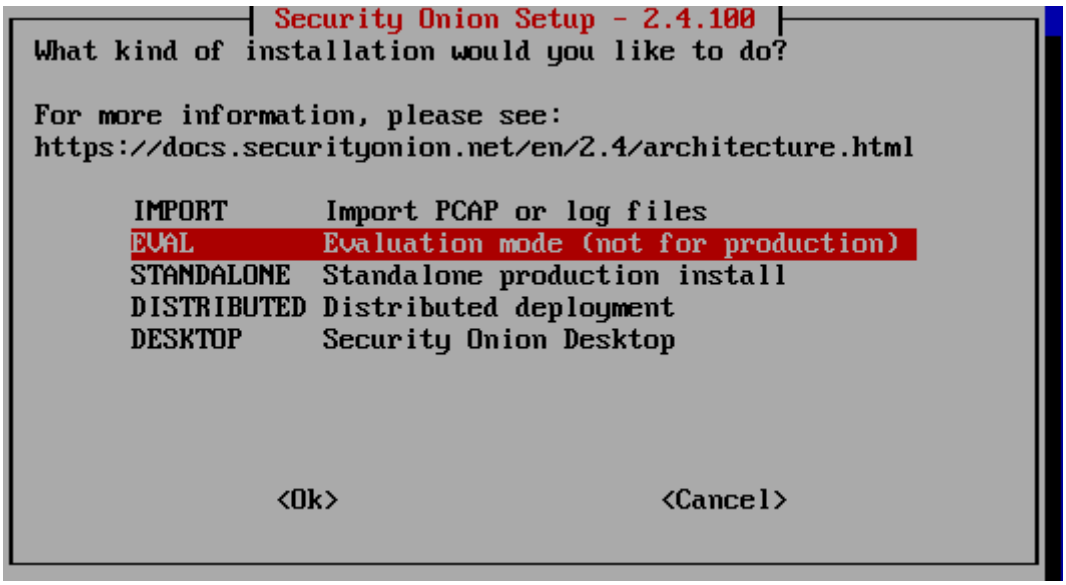




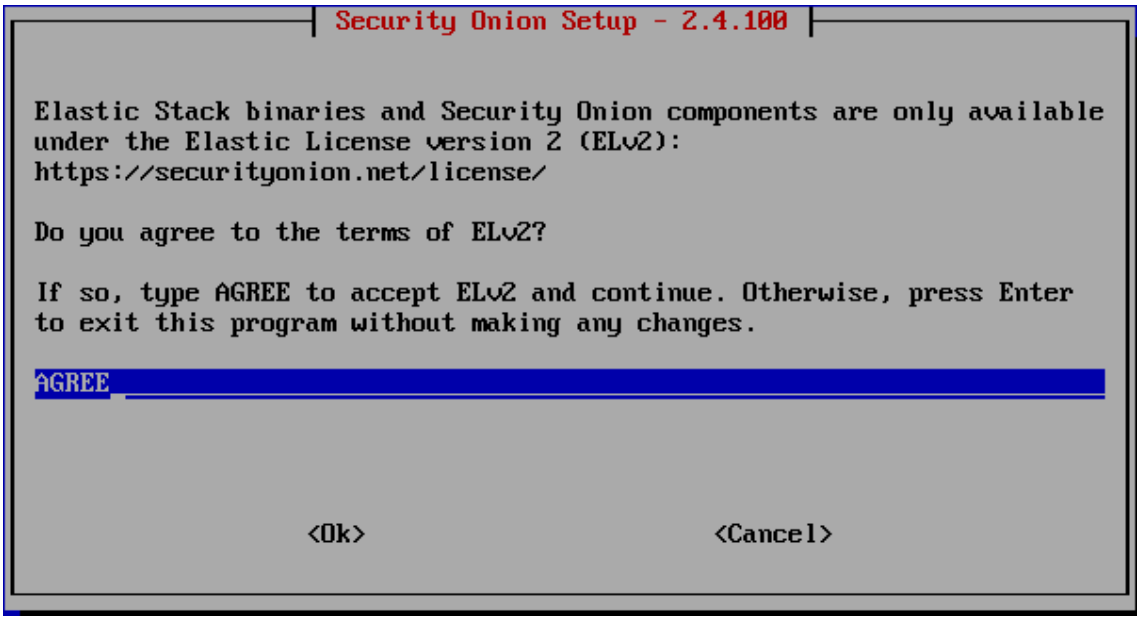


7. After reboot, choose **Install** and **OK**

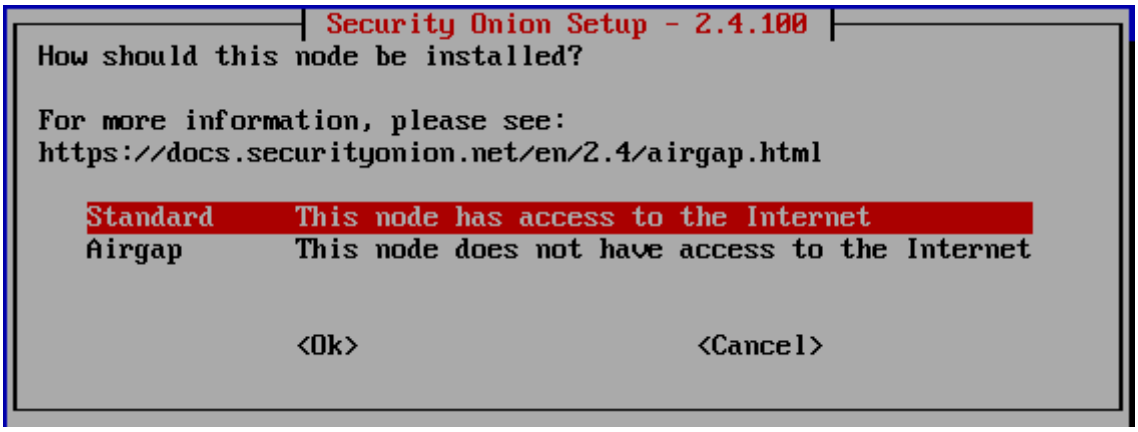

7. **EVAL** and **OK**



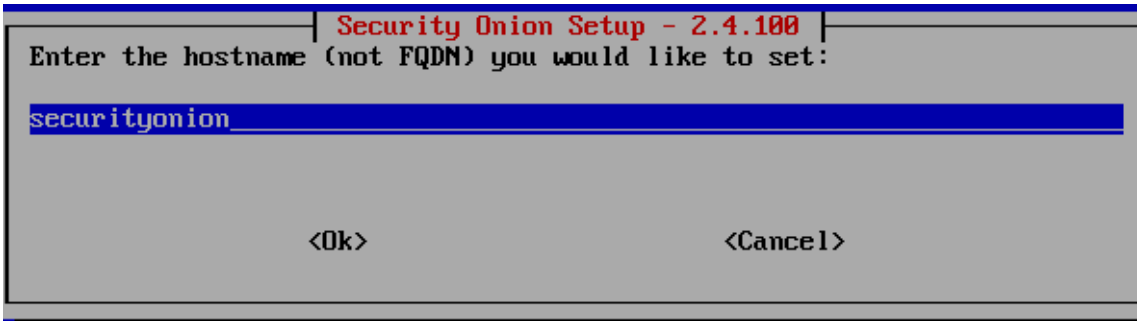
8. **AGREE**

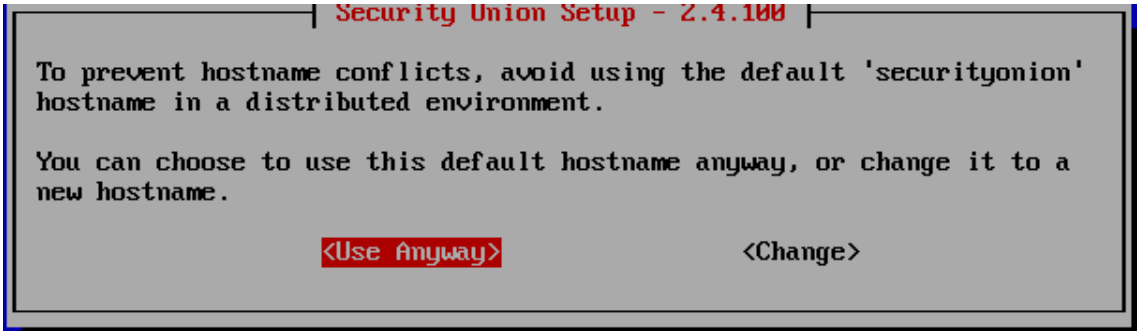


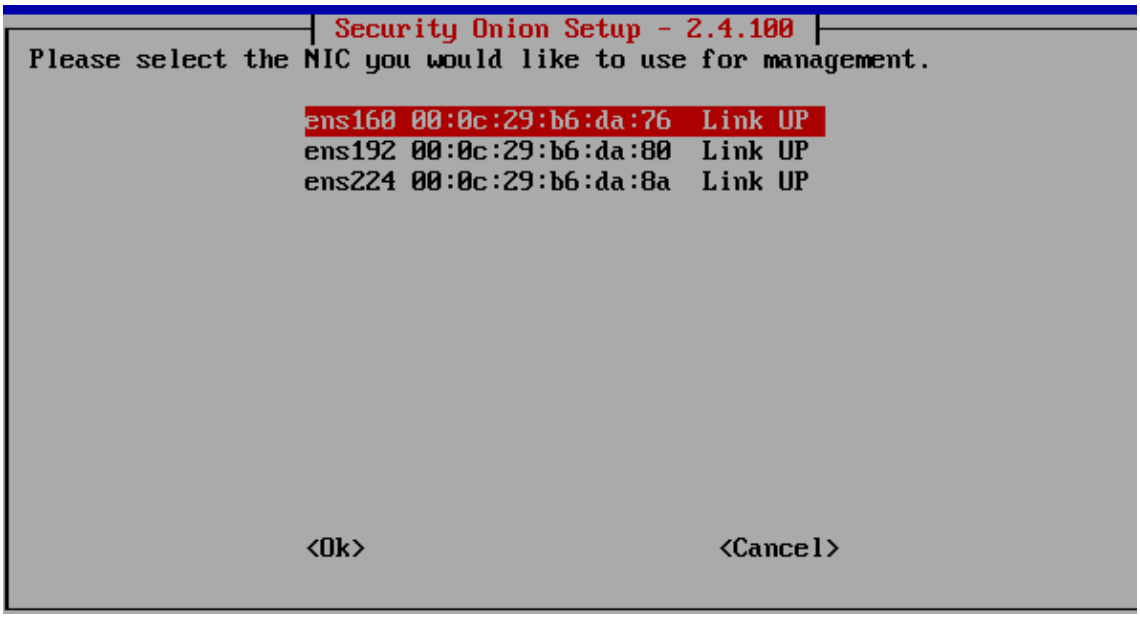

9. **Standard**

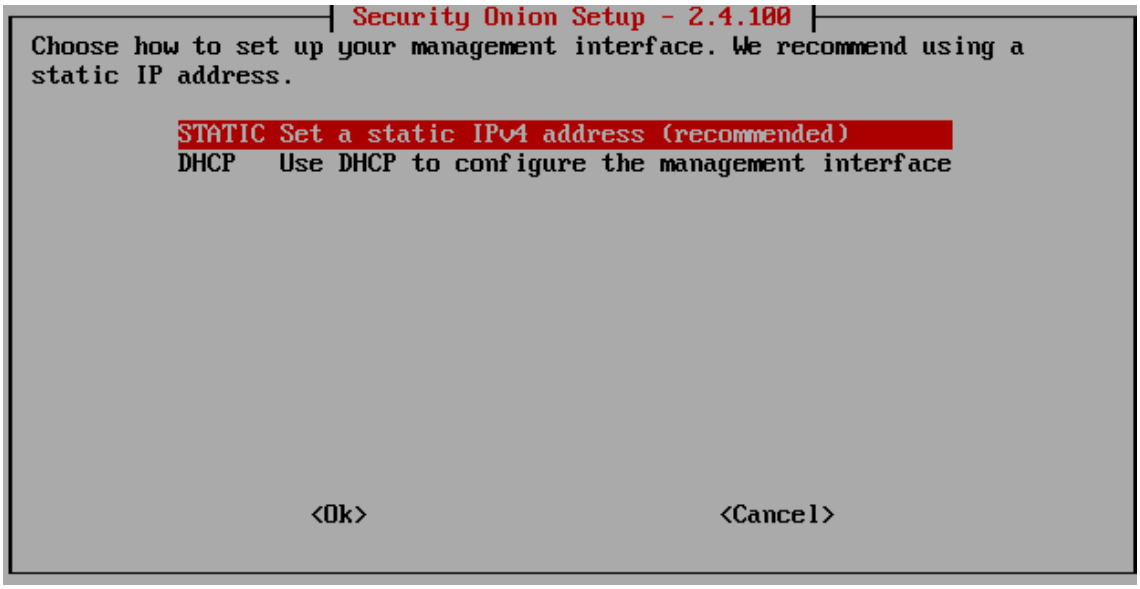



10. leave hostname default and OK

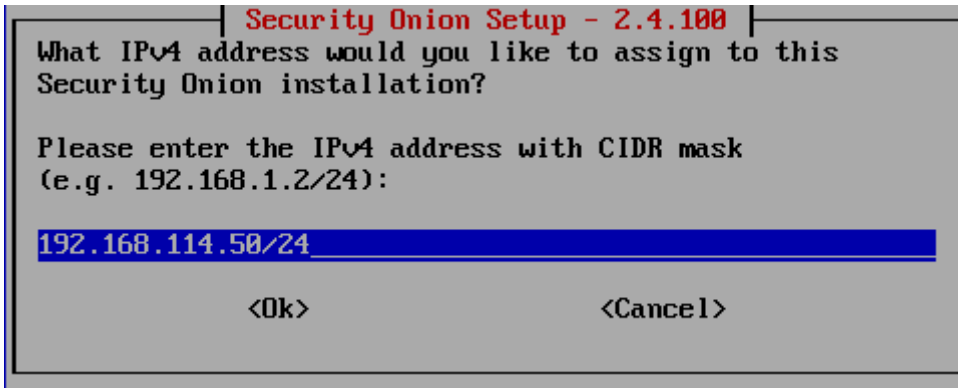


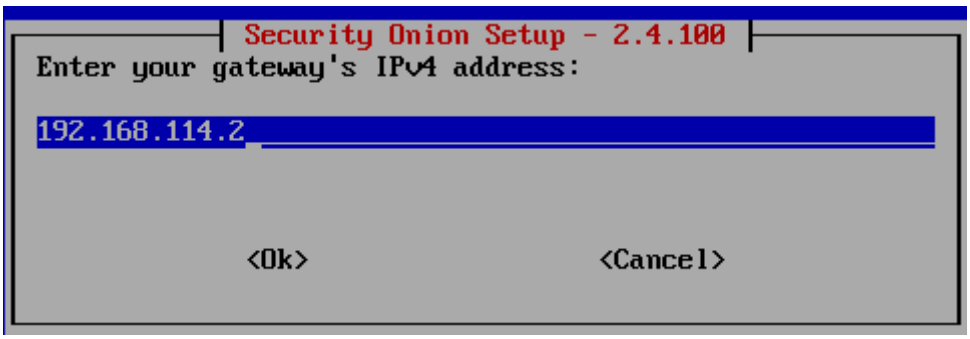


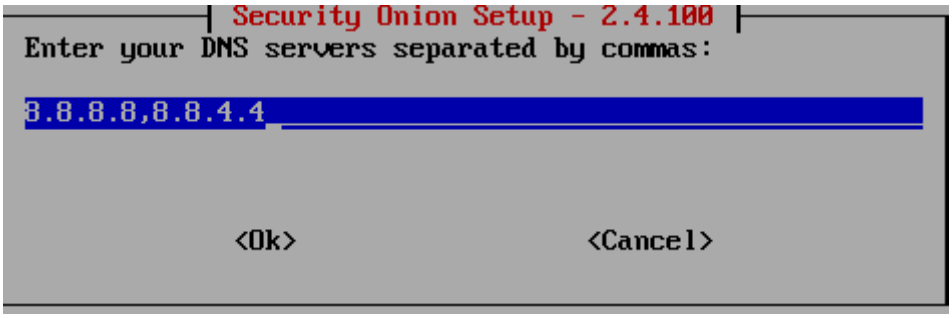




11. Type the static IP address for Management Interface, I type 192.168.114.50/24

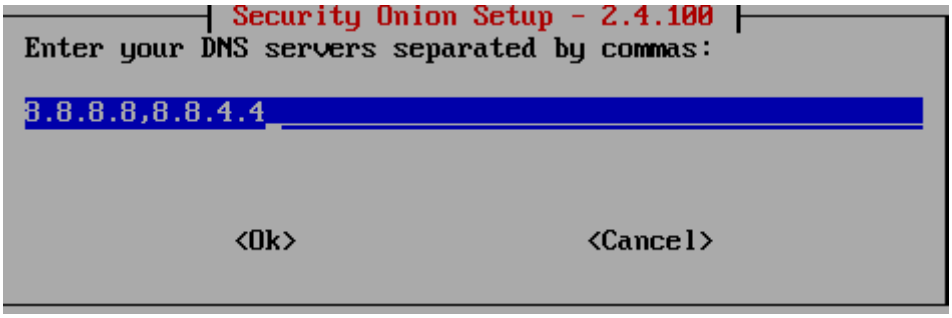


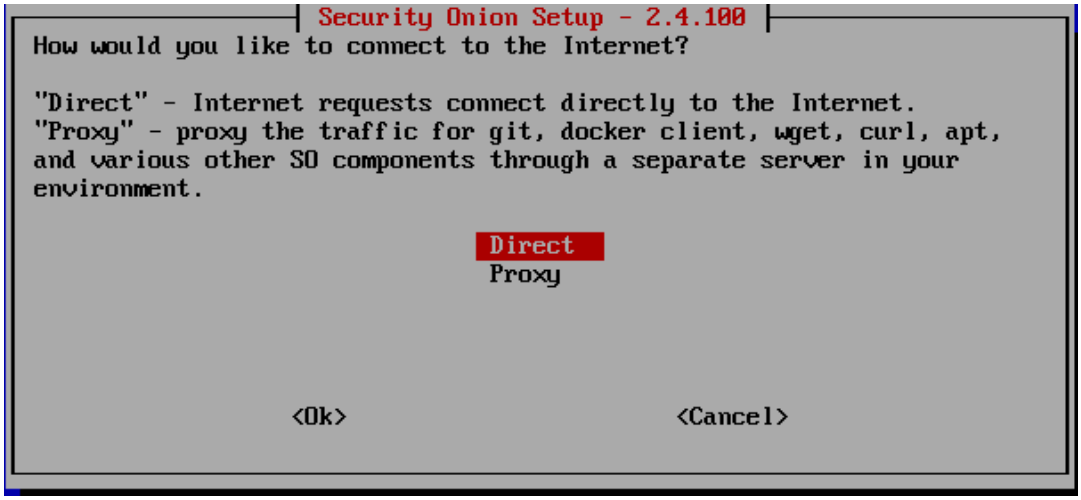

12. Type Gateway **192.168.114.2**

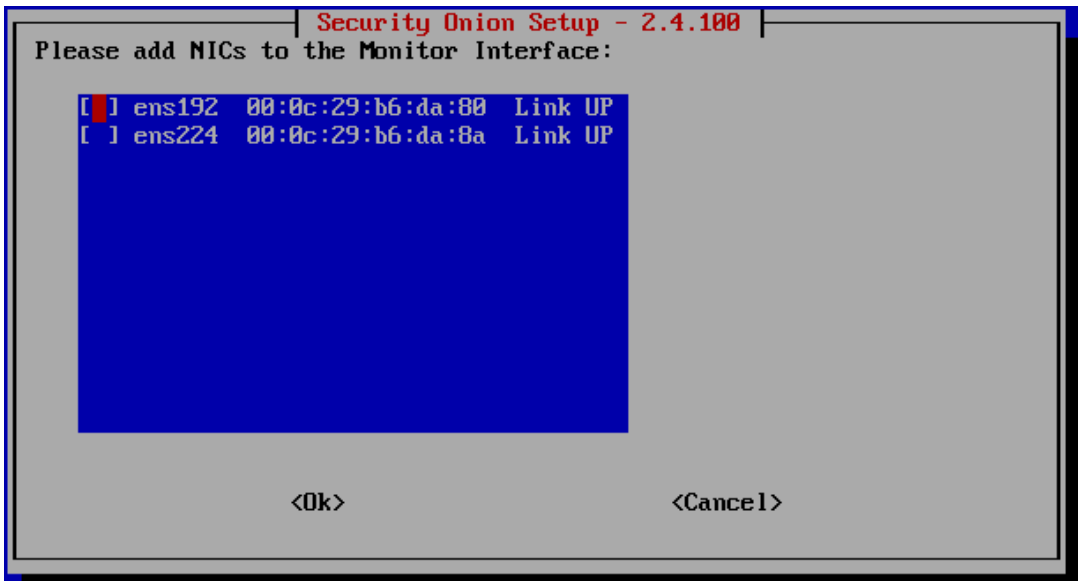




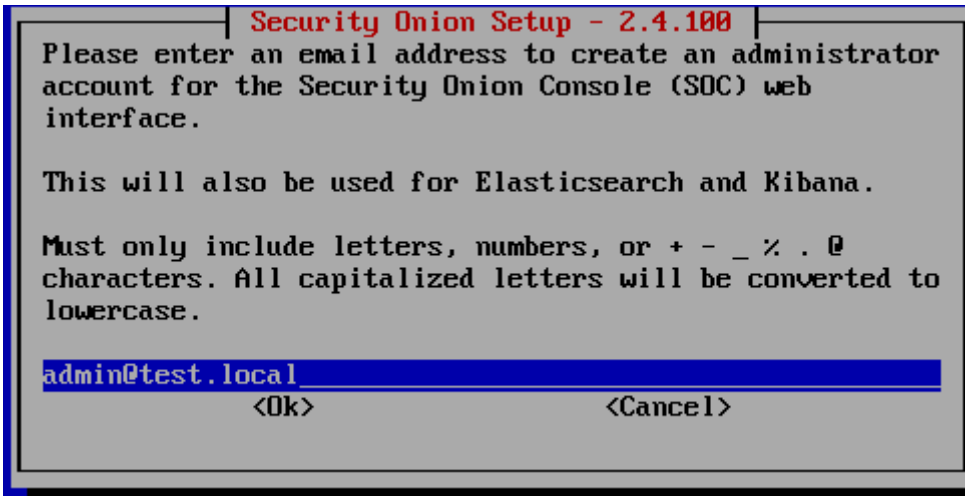

13. Type DNS search domain **test.local**



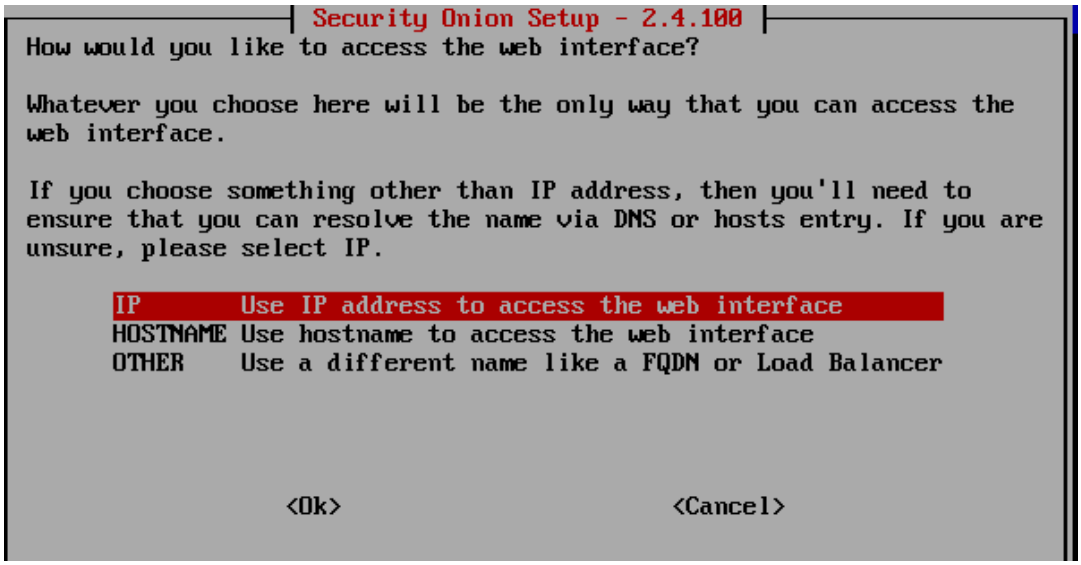



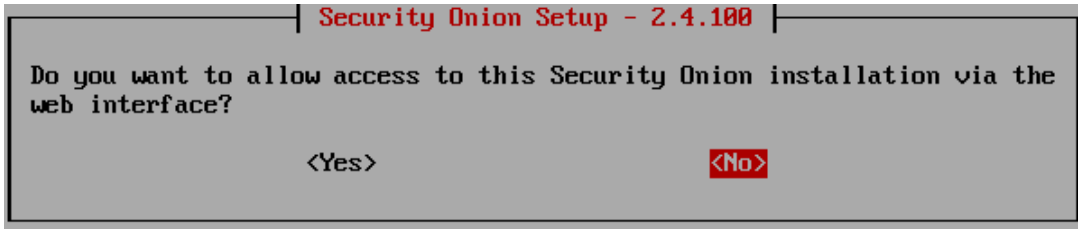




14. type email address, this is for accessing Security Onion Console web interface, I choose **admin@test.local**

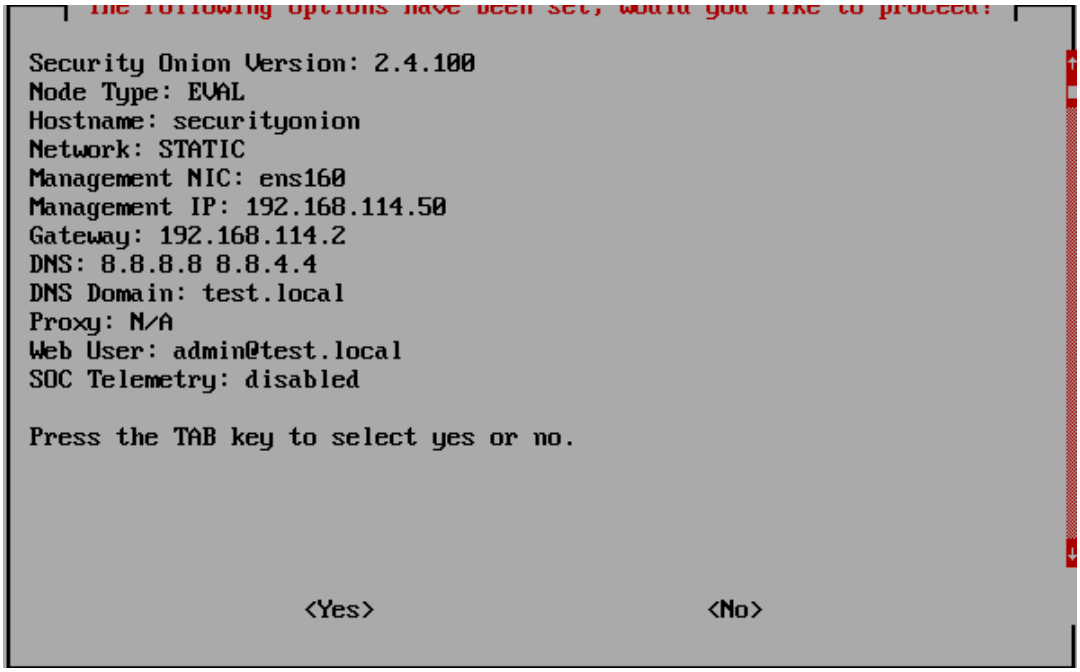



15. type password for web interface
16. Select **IP**

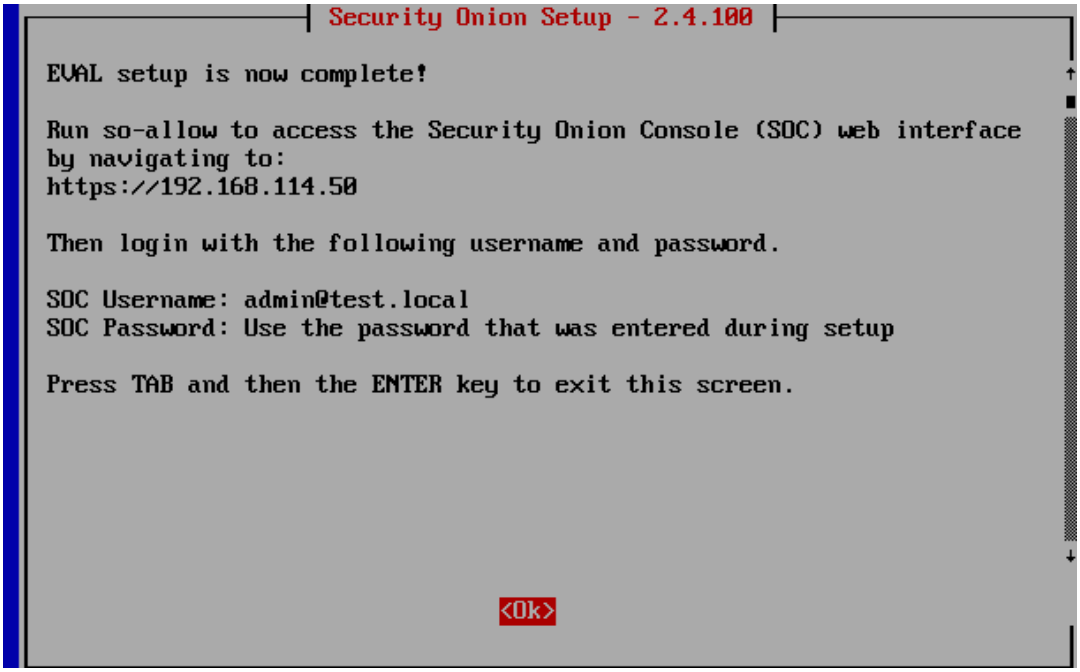



17. Final step before installation




18. Installation is done




# Update & Allow Access to Security Onion Console

1. After reboot, login to the security onion, type **sudo soup**. soup stands for Security Onion Updater, run the command to install updates.
2. To access security onion via web interface, need first add a firewall rules which allow security onion is accessible to certain IP addresses range. To achieve this goal, in the past, sudo so-allow is used. But sudo so-allow is no longer supported on version 2.4.x, instead use **sudo so-firewall includehost analyst** . In this case, **sudo so-firewall includehost analyst 192.168.0.0/16**. This command allows any machines under subnet 192.168.x.x can access manage security onion via link https://192.168.114.50

3. after command **sudo so-firewall includehost analyst 192.168.0.0/16**, may still cannot access the Security Onion Console via web interface, so use **sudo so-ip-update** to update IP address for a single-node install. And this time, Security Onion can be accessed via web interface

   **This may take a little bit time**, but eventually, it will work.

   Login Info: **admin@test.local** and your pre-configured passwird