## IT NE 2006 Implementing Firewall Technologies

**LAB 8** 

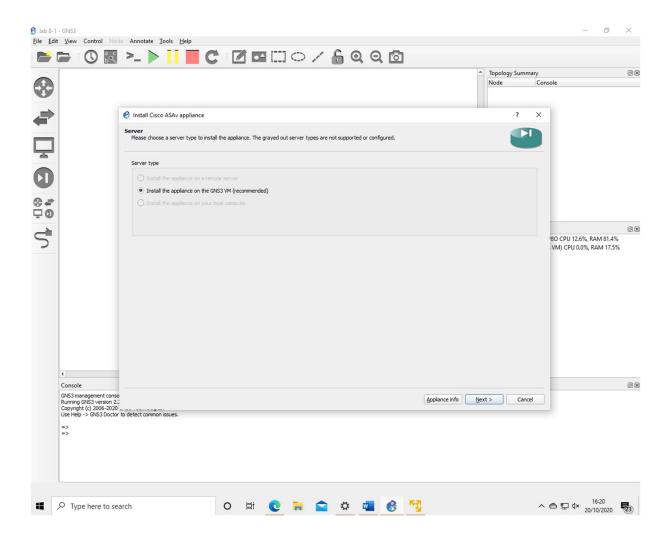
**WEEK - 11** 

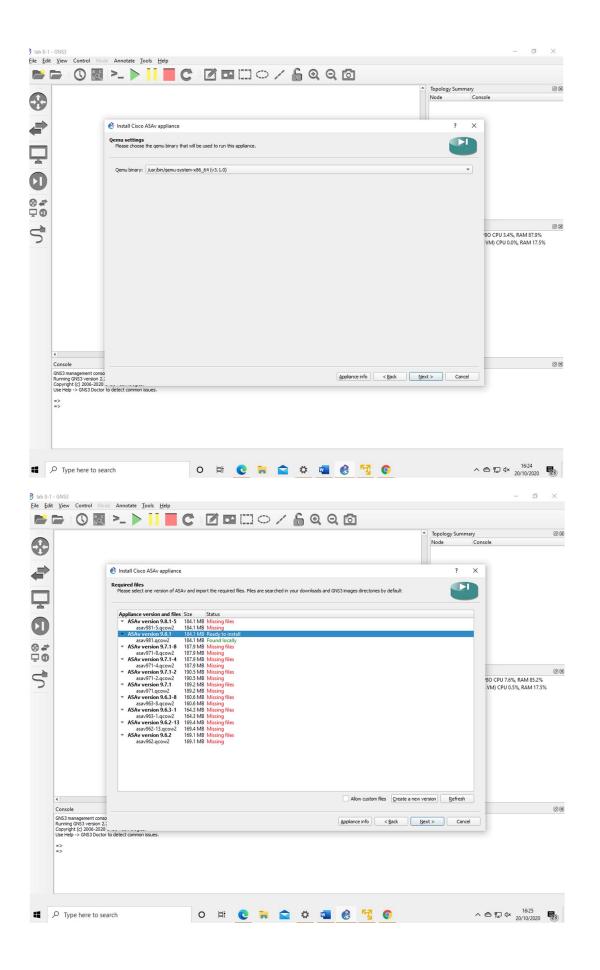
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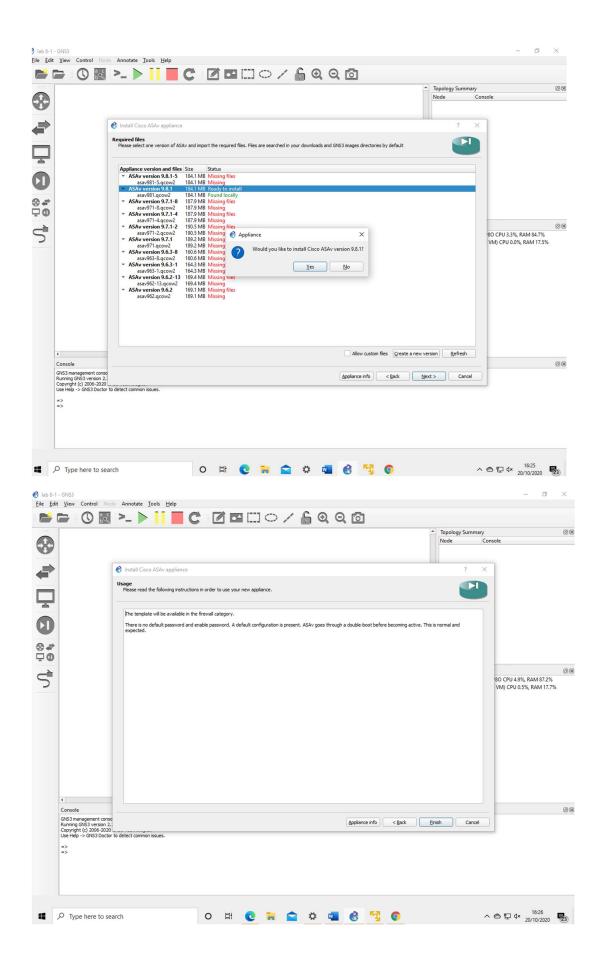
## **Week 6 Implementing ASA**

Objective: Import and configure Cisco ASAv with GNS3

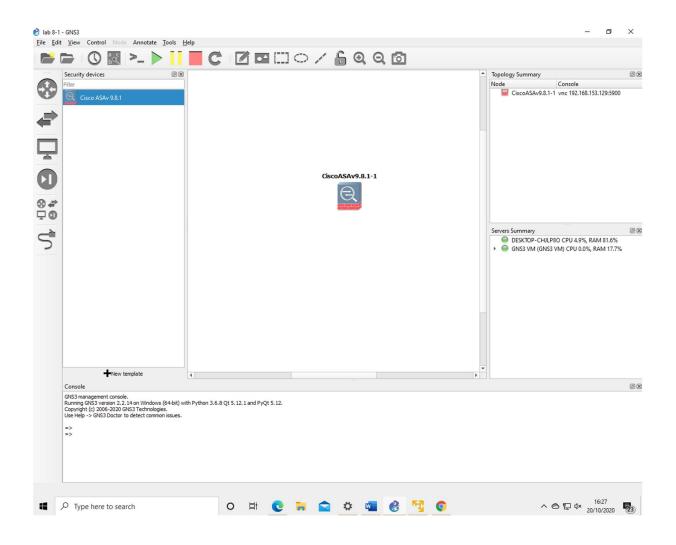
Deploy and configure Cisco ASAv with GNS3 by following instructions in <a href="https://youtu.be/GM\_VmmkCEag?t=1m47s">https://youtu.be/GM\_VmmkCEag?t=1m47s</a> video.



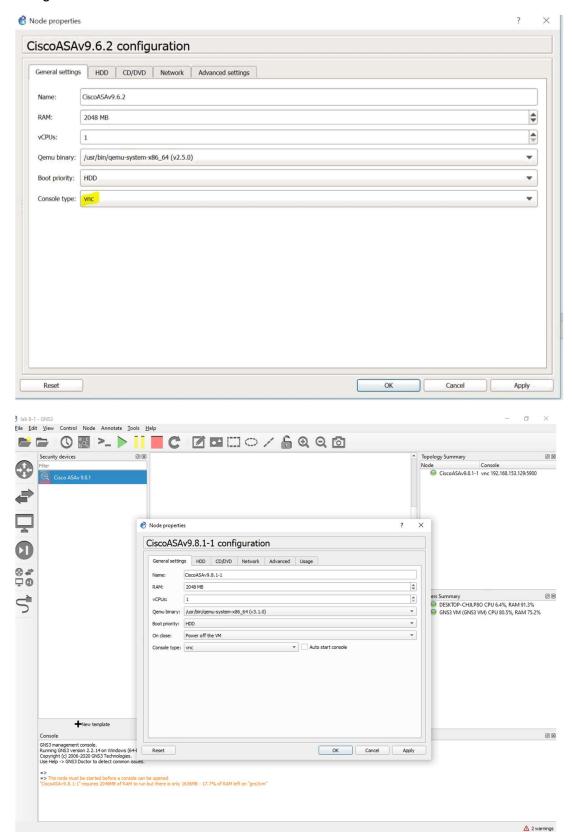




In this case, we will use GNS3 ASA Template and Cisco ASA v9.6.2 IOS image \\10.20.10.2\student\$ GNS3. Additional Notes (before starting router confugration, perform following steps for ASA configuration) Initial configuration after ASA import.



## Configure the ASAv for telnet access delicate:

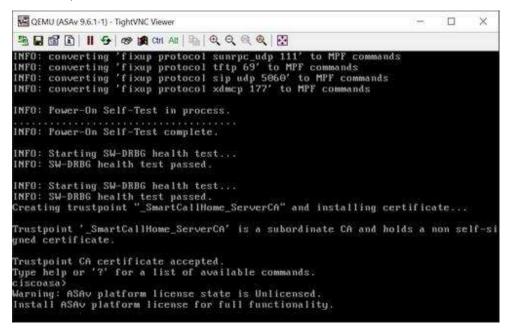


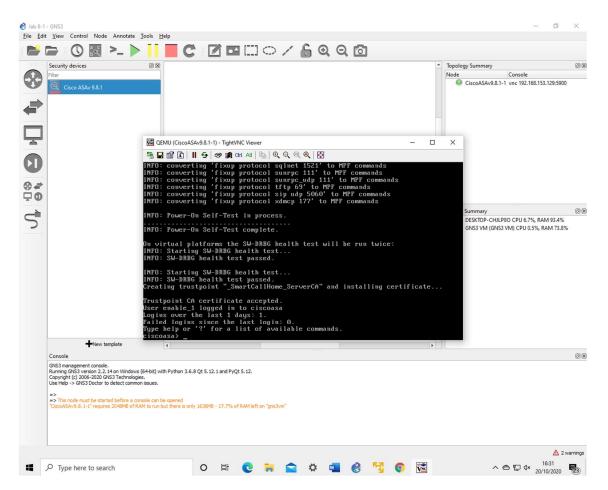
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After creating new Lab project based on above video, Power ASA on and double click it to open the TightVNC viewer. The ASAv will automatically reboot once during the initial power-up after "determining the device platform". After the second boot, it will stop at the ciscoasa> prompt. Once you get that you are ready to move to the next step.





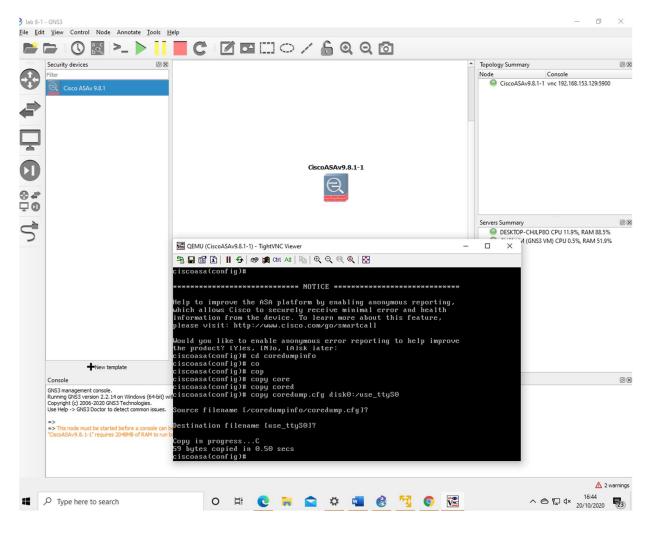
The ASAv serial port is disabled by default. The software seems to require a file on the root of Disk0: called use\_ttyS0 to enable the serial interface. The easiest way to add this is to clone the existing \coredumpinfo\coredump.cfg file and rename it. Use these commands to clone it:

ciscoasa#conf t

ciscoasa(config)# cd coredumpinfo

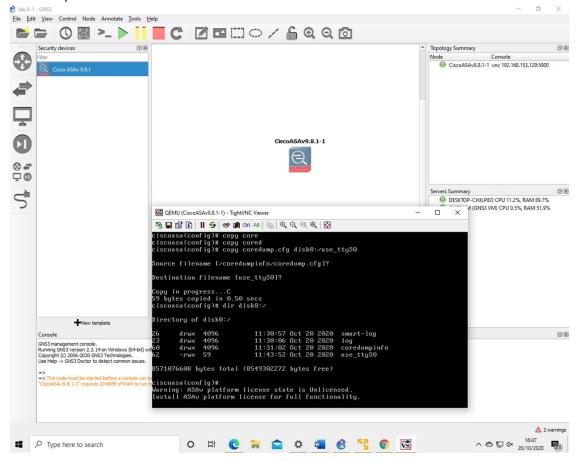
ciscoasa(config)# copy coredump.cfg disk0:/use ttyS0 (that's S zero not S and the letter O)

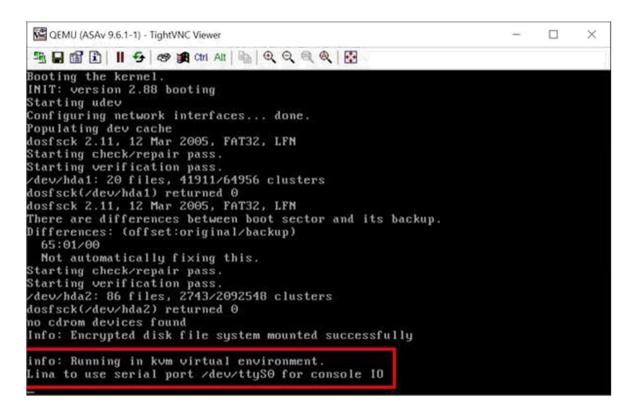
Verify the file exists with the command dir disk0:/



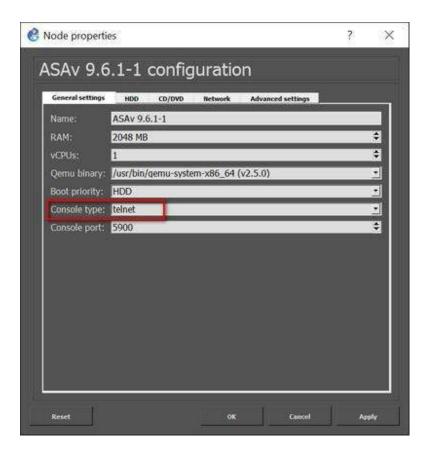
```
QEMU (ASAv 9.6.1-1) - TightVNC Viewer
                                                                             X
18:26:44 May 23 2016
                                                coredumpinfo
8571076608 bytes total (8559845376 bytes free)
ciscoasa(config)# cd coredumpinfo
ciscoasa(config)# copy coredump.cfg disk0:/use_ttyS0
Source filename [/coredumpinfo/coredump.cfg]?
Destination filename [use_ttyS0]?
Copy in progress...C
59 bytes copied in 0.80 secs
ciscoasa(config)# dir disk0:/
Directory of disk0:/
26
            4096
                          18:26:38 May 23 2016
      drwx
                                                smart-log
23
      drwx
            4096
                          18:25:18 May 23 2016
                                                log
                          18:26:44 May 23 2016
                                                coredumninfo
60
      drwx
             4096
                          18:37:30 May 23 2016
62
            59
                                               use_ttyS0
       -rwx
8571076608 bytes total (8559841280 bytes free)
ciscoasa(config)#
```

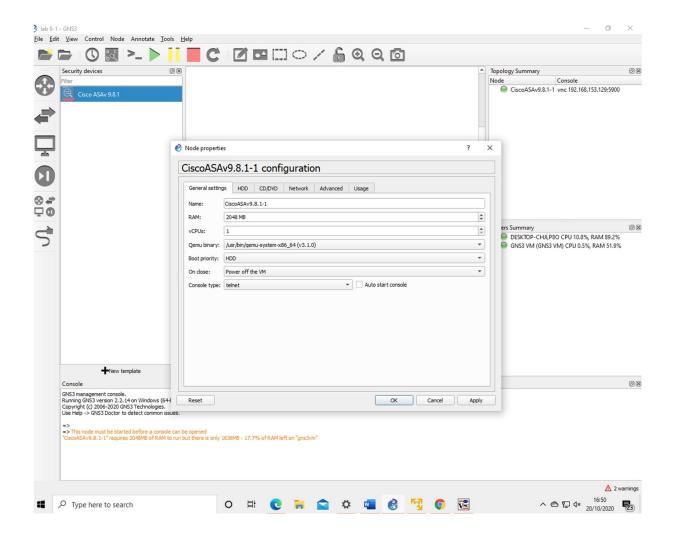
Once it is there, reload the ASA. There is no need to save the config at this point. We just want the ASA to reload with that file in place. It should show the GRUB boot loader, and boot, but the interaction will stop with the message "Lina to use serial port /dev/ttySO for console IO". At this point, it has transferred the interactive control to the serial port.



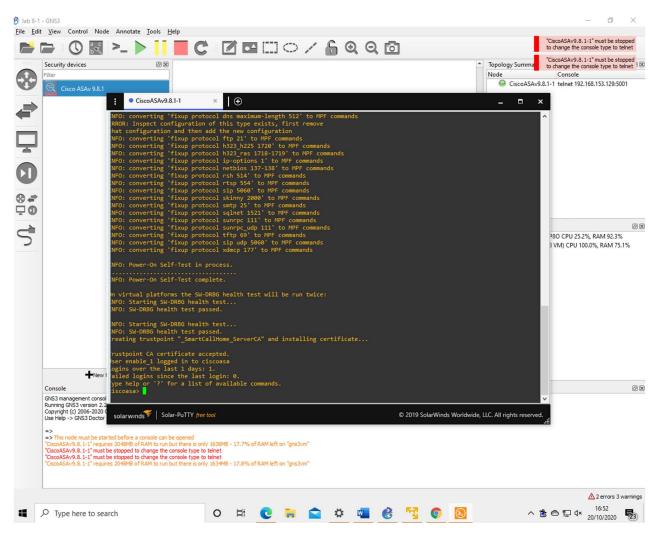


Power the ASAv off. Right click it, and select configure. Change the console type from vnc to telnet. You must power the ASAv off to do this. You can change it with the device powered on, but it will throw the error "No connection could be made because the target machine actively refused it" if you try to launch the console and will not connect. Click Apply > OK to save.





Power the ASAv back on and double click to open the console. It will take 30-45 seconds before any output will appear. The GRUB boot screen and boot process won't show in the serial port output. The serial port isn't active until the ASA software loads. My Surface pro takes 30 seconds to show output.



```
INFO: converting 'fixup protocol smtp 25' to MPF commands
INFO: converting 'fixup protocol sqlnet 1521' to MPF commands
INFO: converting 'fixup protocol sunrpc 111' to MPF commands
INFO: converting 'fixup protocol sunrpc udp 111' to MPF commands
INFO: converting 'fixup protocol tftp 69' to MPF commands
INFO: converting 'fixup protocol sip udp 5060' to MPF commands
INFO: converting 'fixup protocol xdmcp 177' to MPF commands
INFO: Power-On Self-Test in process.

INFO: Power-On Self-Test complete.
INFO: Starting SW-DRBG health test...
INFO: Starting SW-DRBG health test...
INFO: Starting SW-DRBG health test...
INFO: SW-DRBG health test passed.
Creating trustpoint "_SmartCallHome_ServerCA" and installing certificate...

Trustpoint '_SmartCallHome_ServerCA' is a subordinate CA and holds a non self-signed certificate.

Trustpoint CA certificate accepted.
Type help or '?' for a list of available commands.
```