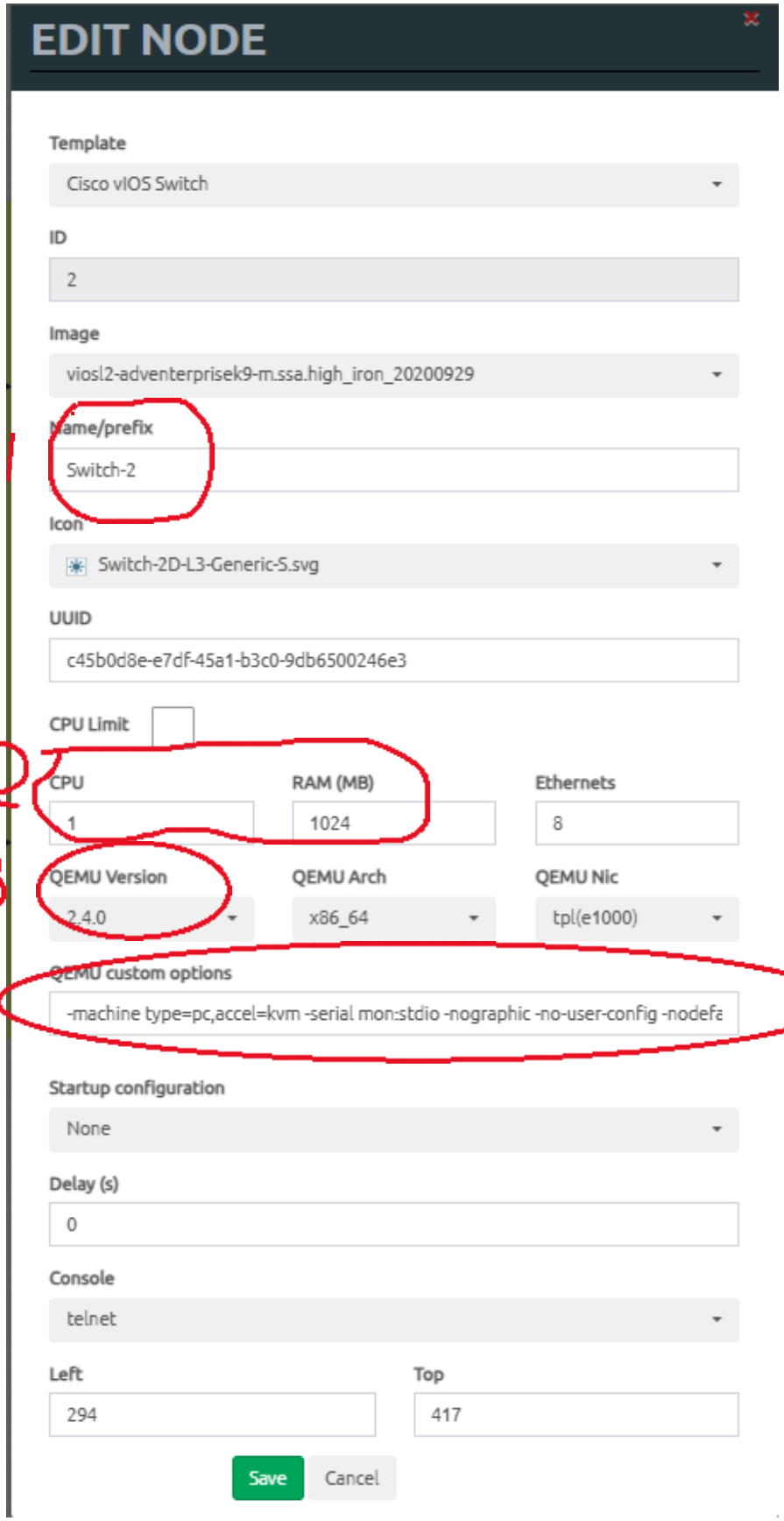
Adding and Connecting Nodes

By Christian Najera

1. While EVE-NG machine is running, open a web browser and navigate the to EVE-NG address on your local network. You should see a login form. The default username is admin, and the password should be eve. Create a new lab, and you will be directed to the topology workspace. Here you can add the devices we previously uploaded to the topology. This is where creative and engineering meet, the user is free to design, implement, and test their network and systems.

2. Click on add a node on the top left side and choose a device previously loaded. A node configuration popup will appear, and the values need to be changed based on the device type you are trying to add. See example on next page:


EDIT NODE
Template
Cisco vIOS Switch
ID
2
Image
viosl2-adventerprisek9-m.ssa.high_iron_20200929
Name/prefix
Switch-2
Icon
Switch-2D-L3-Generic-S.svg
UUID
c45b0d8e-e7df-45a1-b3c0-9db6500246e3
CPU Limit
CPU
1
RAM (MB)
1024
Ethernets
8
QEMU Version
2.4.0
QEMU Arch
x86_64
QEMU Nic
tpl(e1000)
QEMU custom options
-machine type=pc,accel=kvm -serial mon:stdio -nographic -no-user-config -nodefa
Startup configuration
None
Delay (s)
0
Console
telnet
Left
294
Top
417
Save
Cancel
1
2
3
4

There are four fields of focus.

1. Our node name, which we can changes as we see fit.
2. The hardware specification, which might need to change depending on the node being configured.
3. The QEMU version, which may need to change depending on the node being configured.
4. QEMU custom options, which typically stays default, however, can be changed based on lab objectives.

Everything else typically stays as is. For the sake of this lab, we will configure nodes for windows server 2022, windows 10 pro, our cisco switches, our cisco routers, and our ASAv firewalls.

FOR WINDOWS SERVER NODES:

- Add node on top left, select windows server. Name it as you like. Dedicate it at least 4 vCPU. 8192MB of RAM, and set it to launch with QEMU version 5.2.0. No custom options are necessary at this time.

FOR WINDOWS 10 PC NODES:

- Add node on top left, select windows pro/windows pc. Name it as you like. Dedicate at least 2 vCPU, 8192 RAM, and set it to launch with QEMU 5.2.0. No custom options are necessary at this time.

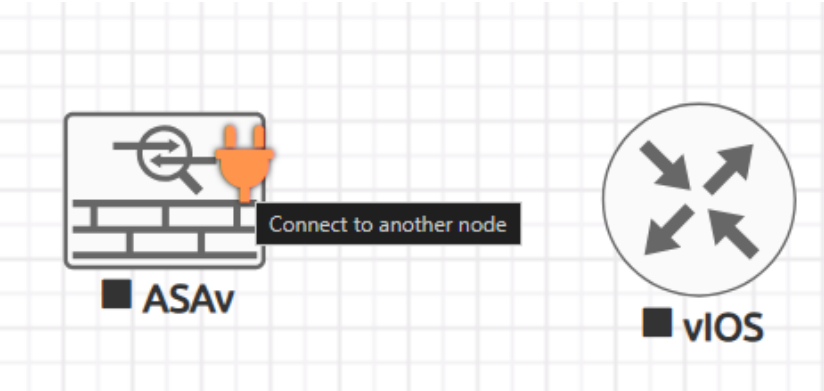
FOR CISCO SWITCH OR ROUTER NODE:

- Add node on top left, select Cisco vIOS switch or router. Name it as you like. Dedicate at least 1 vCPU, 1024 RAM, and default QEMU version. No custom options are necessary at this time.

FOR ASAv Firewall:

- Add node on top left, select Cisco ASAv. Name it as you like, dedicate it at least 1 vCPU, 2048 RAM, and default QEMU version. No custom options are necessary at this time.

3. To make connections, nodes must be turned off. Simply hover your pointer over a node to reveal an orange pronged plug image. Click and drag it over the node you want to make the connection to. Chose the starting and ending interface and you're done making the "physical" connection.



ADD CONNECTION BETWEEN ASAV AND VIOS

Source ID: 11

Source Name: ASAv

type - Node

Choose Interface for ASAv

Gi0/0

Choose Interface for vIOS

Gi0/0

Destination ID: 16

Destination Name: vIOS

type - Node

Save Cancel