ls2ec training

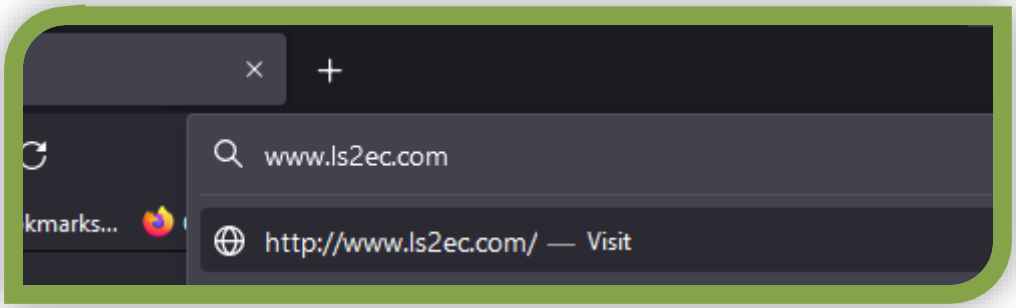
LAB ACCESS GUIDE

CLAUDE MARCEL B.M.

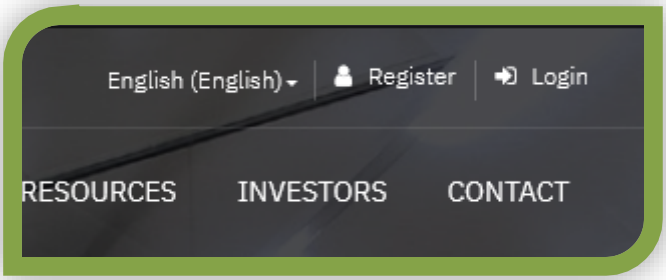
CONTENTS

HOW TO LOGIN

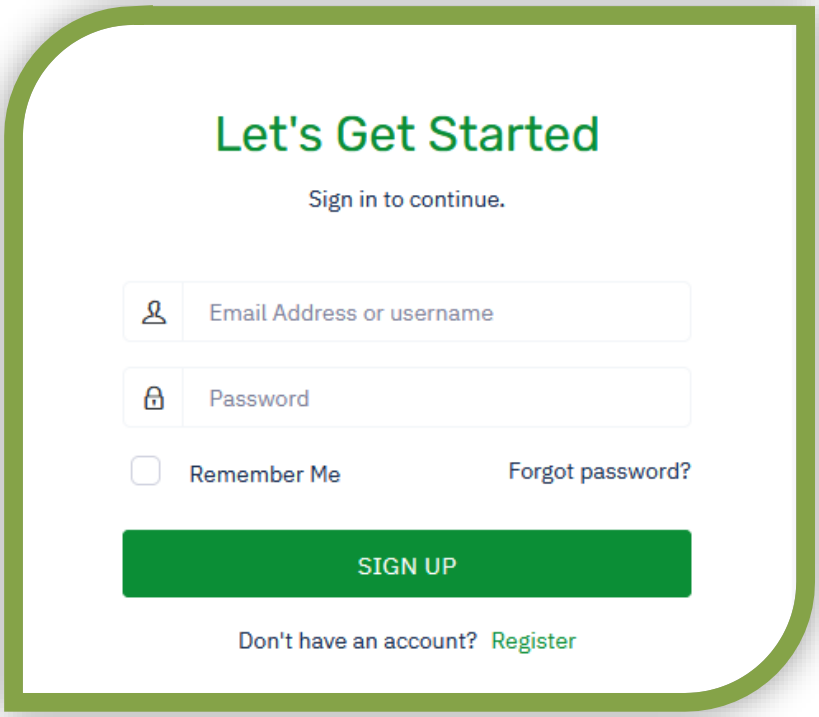
1. Go to www.Ls2ec.com



2. Click login

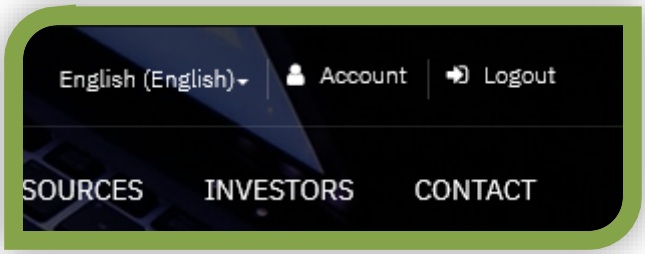


3. Enter your credentials Email/username and password

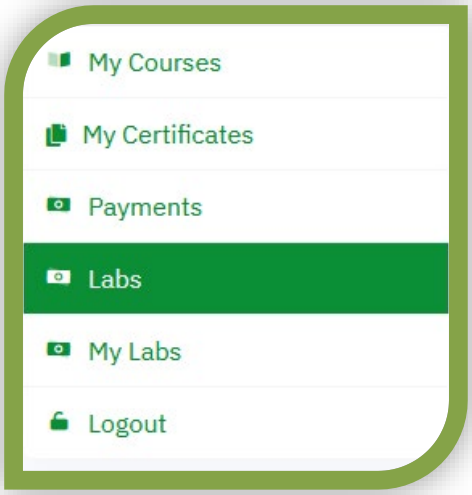


SCHEDULE LABS

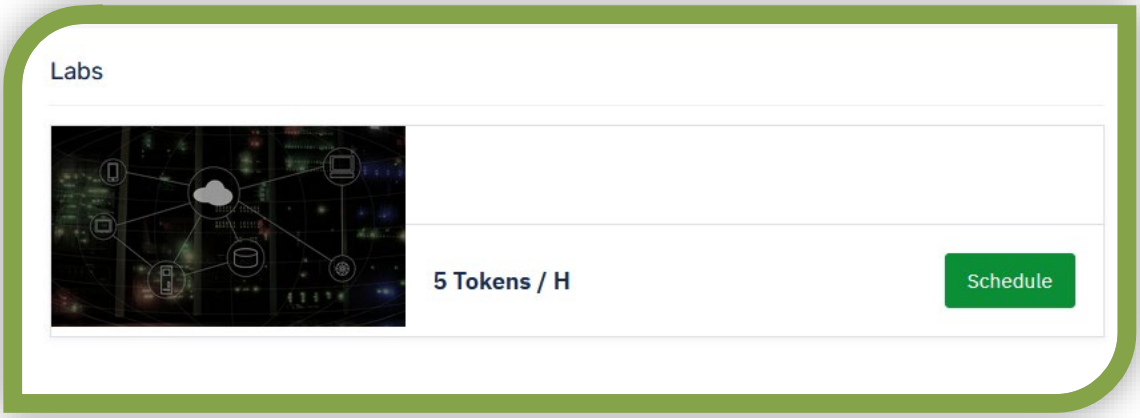
1. Go to Account



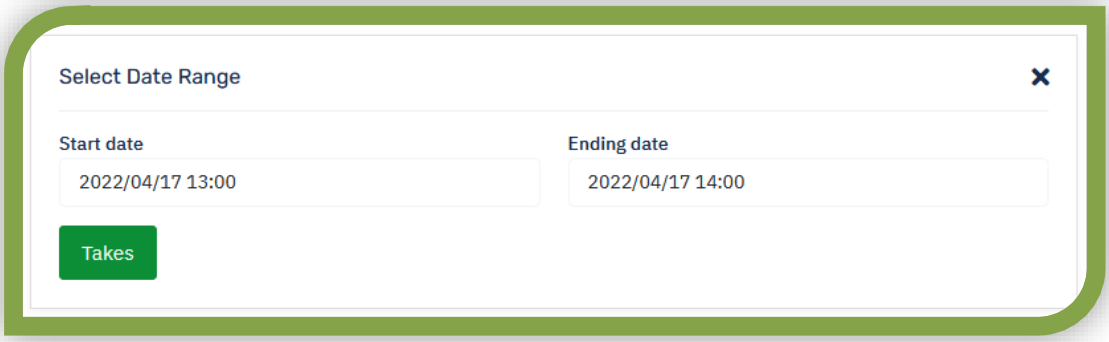
2. Now click on Labs



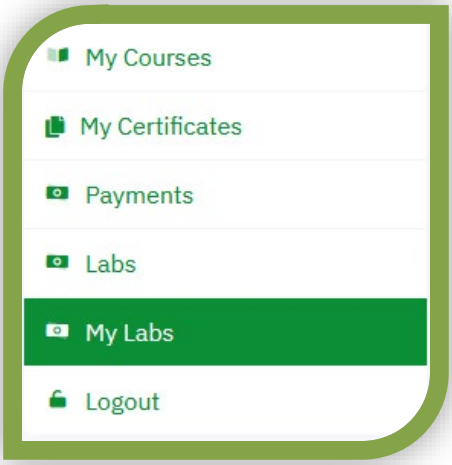
3. You will be directed to a page where you have to schedule your labs. Just Click schedule.



4. When you click on schedule, you must enter a valid Start time and End time according to your time zone. All-time formats are in 2400 hours, so select accordingly.



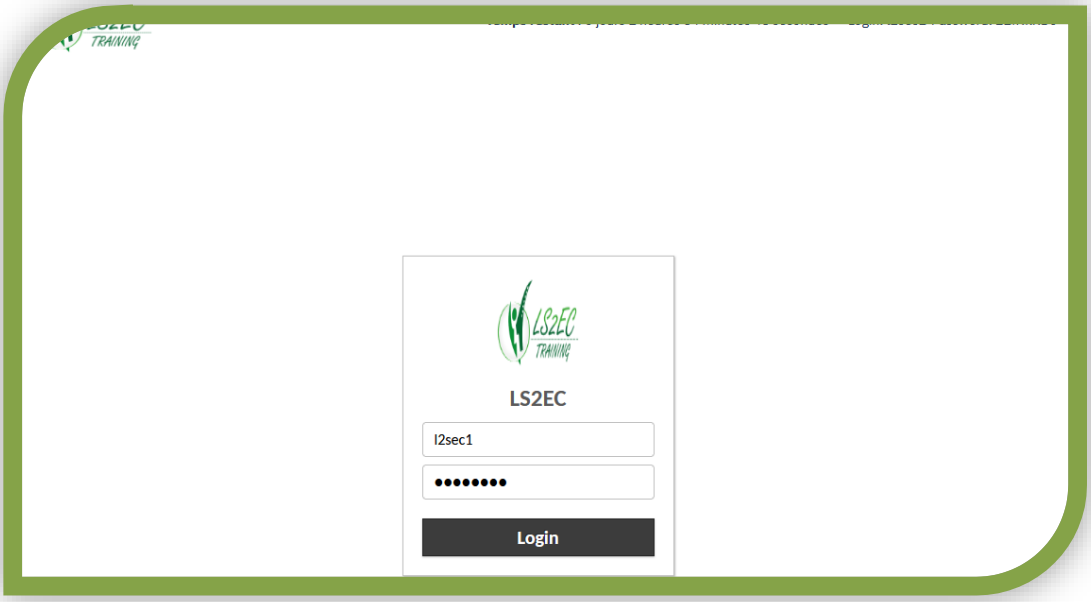
5. After selecting the start time and end time, click Takes and then go to My Labs under Labs on the left menu.



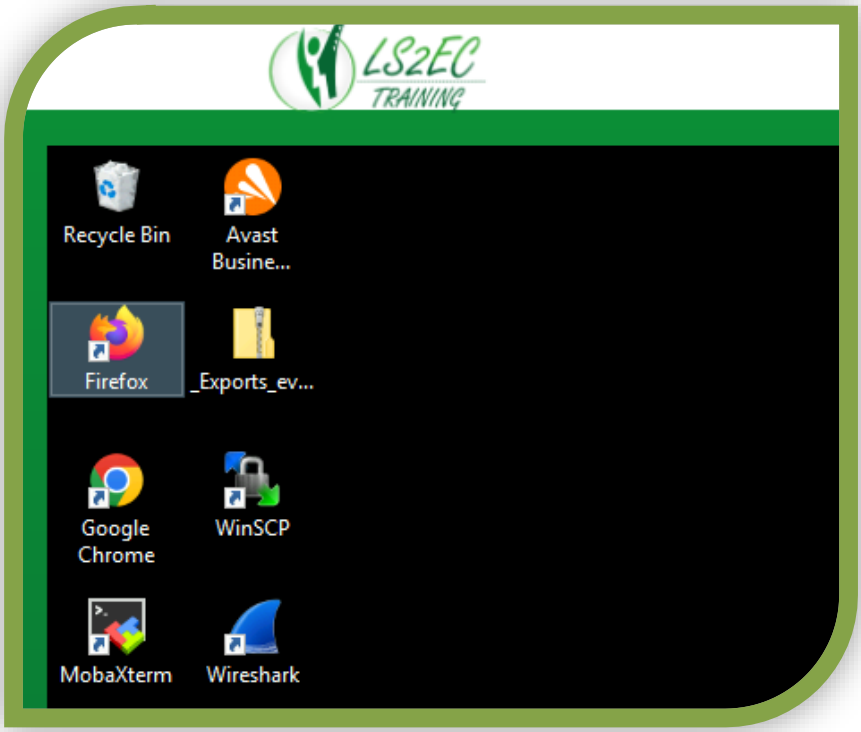
6. Now, you will see your scheduled Lab. Click Start to begin.

STARTING SCHEDULED LABS

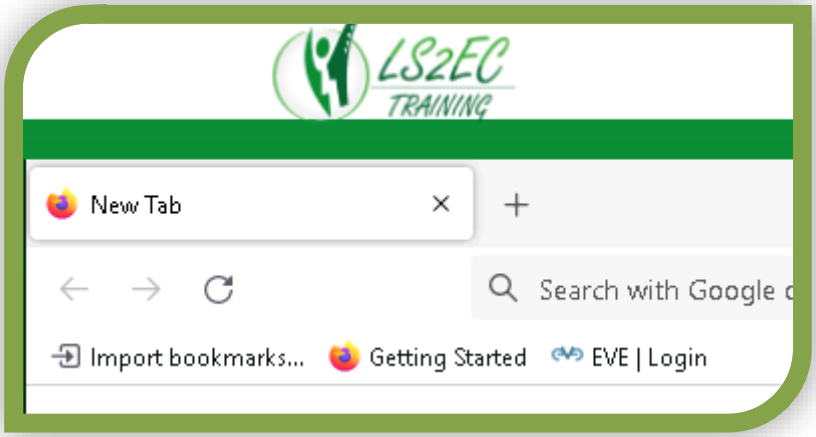
1. When you click start on your scheduled Lab, you will be directed to this page.



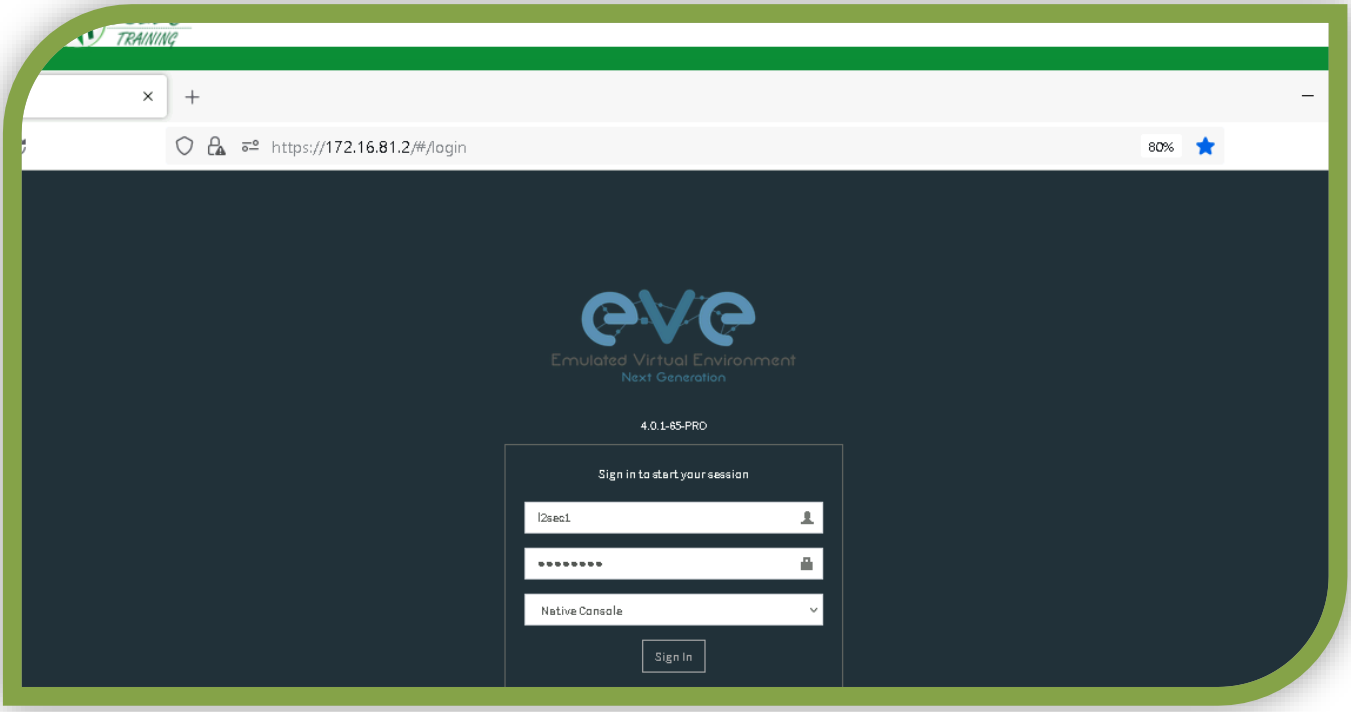
2. Username and passwords are mentioned in the upper right corner on the same page. Make sure to enter it correctly and then click Login. You will see a normal PC's Desktop; go to Firefox (it is recommended).



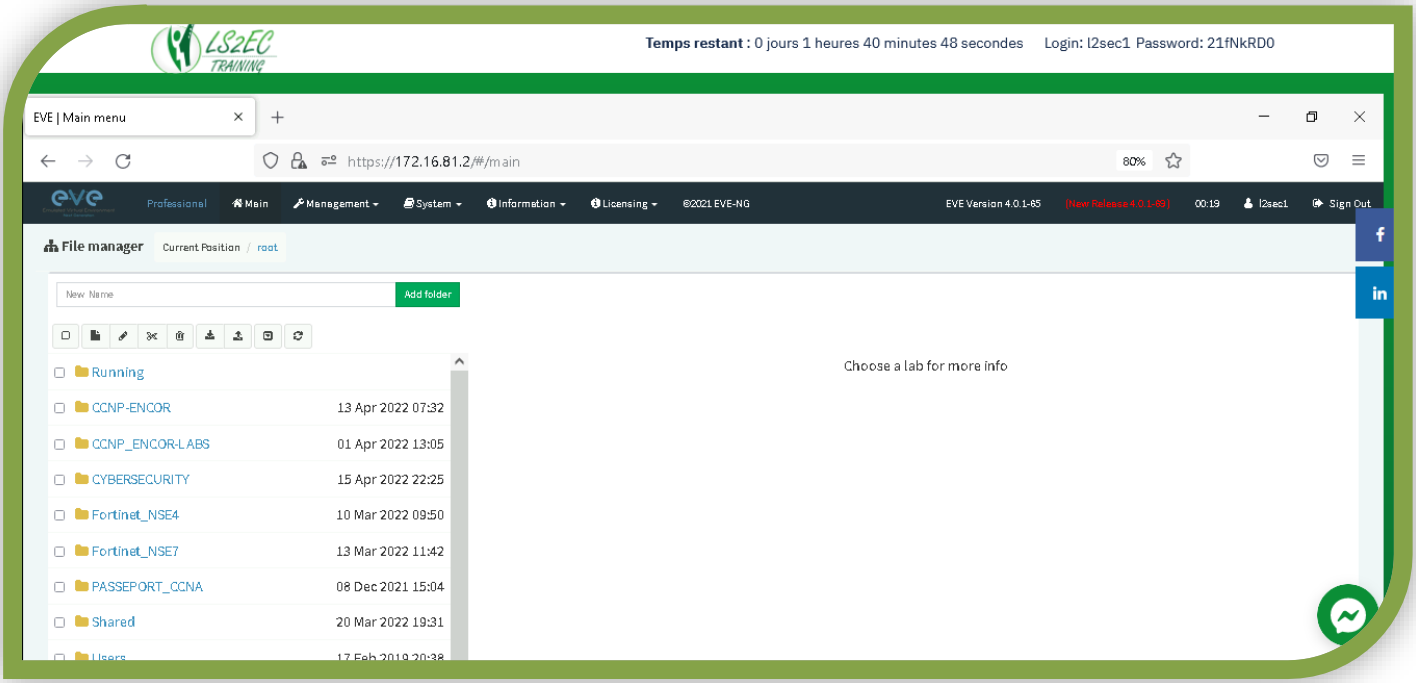
3. When you open Mozilla Firefox, you will see a bookmark named “EVE | Login.” Click on this bookmark.



4. After clicking the bookmark, you will see a page where you have to enter credentials. These are the same credentials you had seen on the upper right corner of the page. Enter the credentials and then click Sign in.

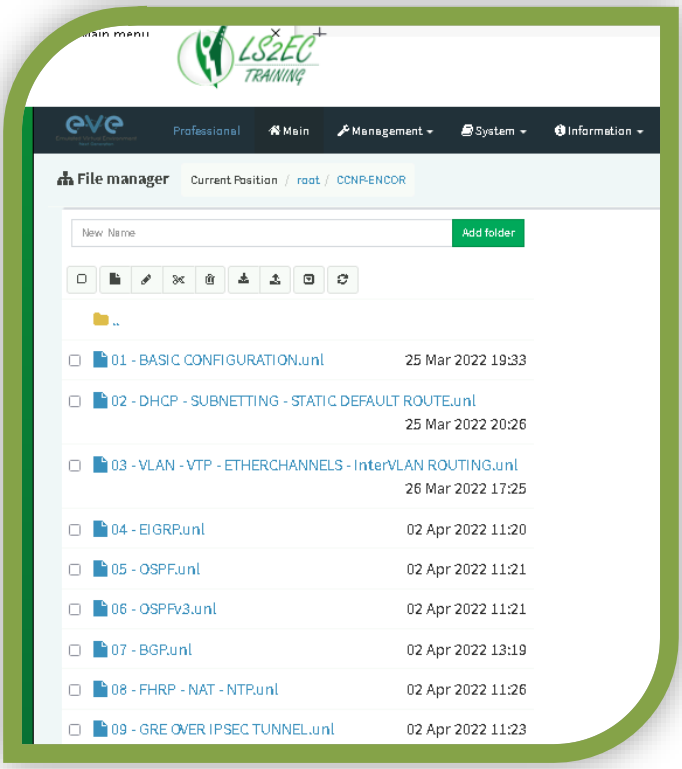


5. Once logged in, you will see the following page.

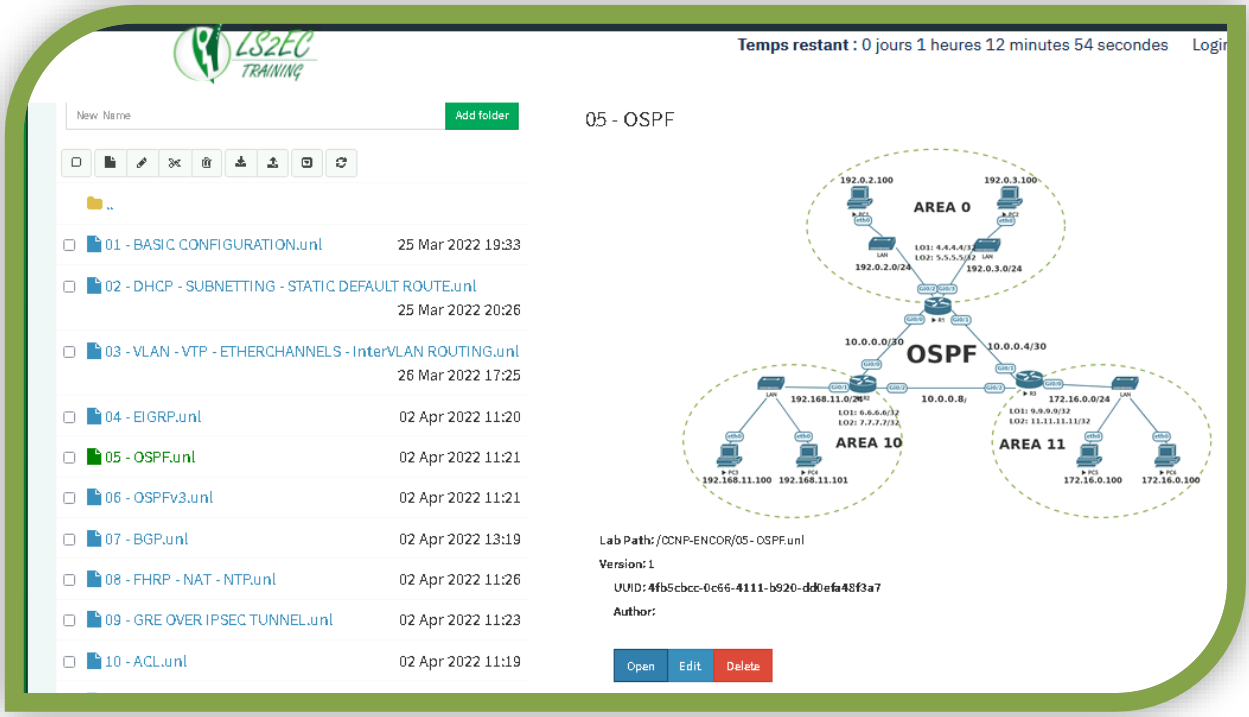


ACCESSING COURSE-RELATED LABS

1. Now, according to your course selection, go to your course-related lab folder, e.g., if your course is CCNP, you will go to the CCNP-ENCOR folder, where you will find your course-related labs.

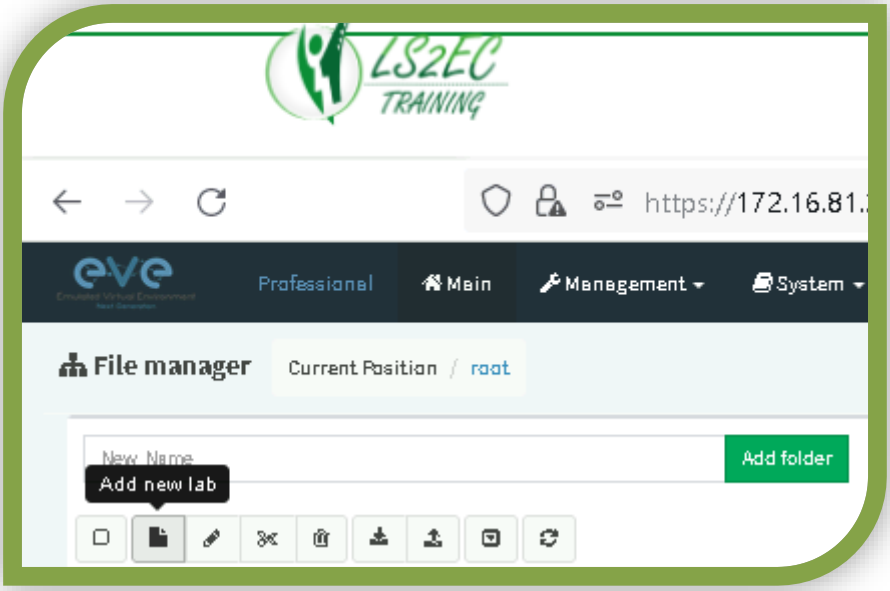


2. Select any lab and click open, e.g., select OSPF and click open.

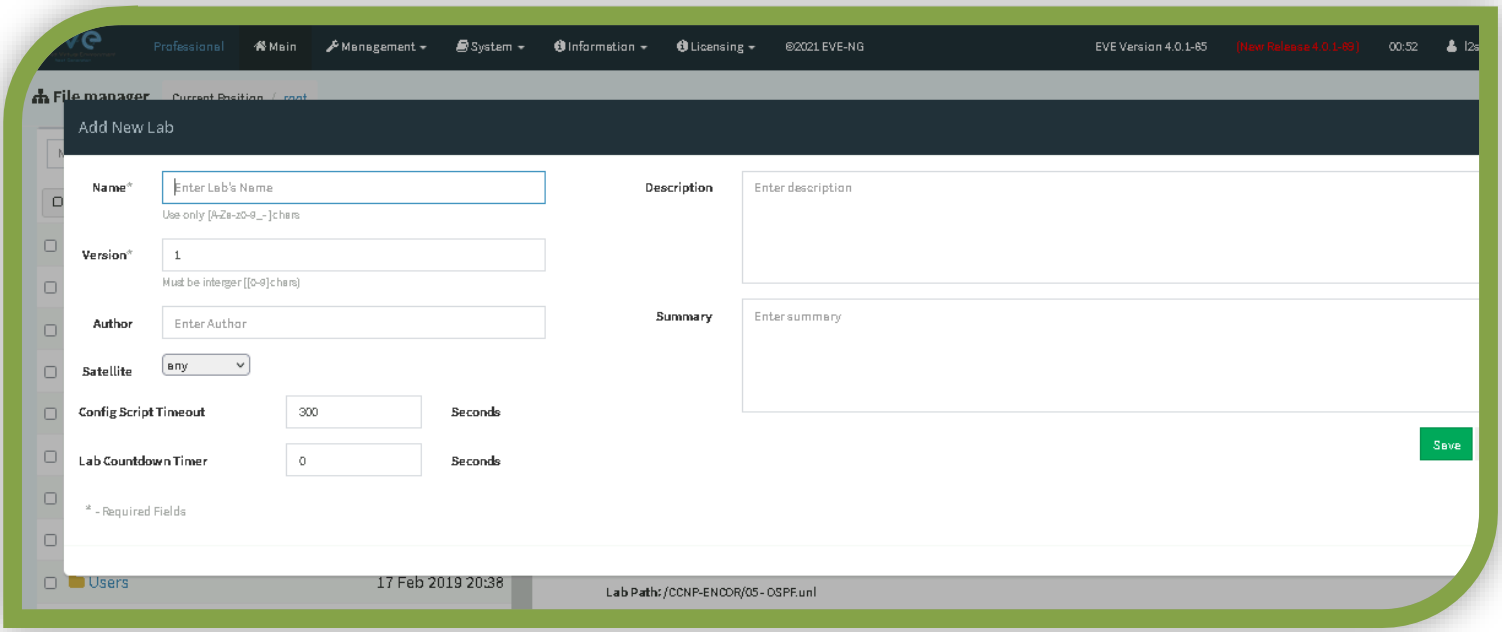


CREATING A NEW LAB

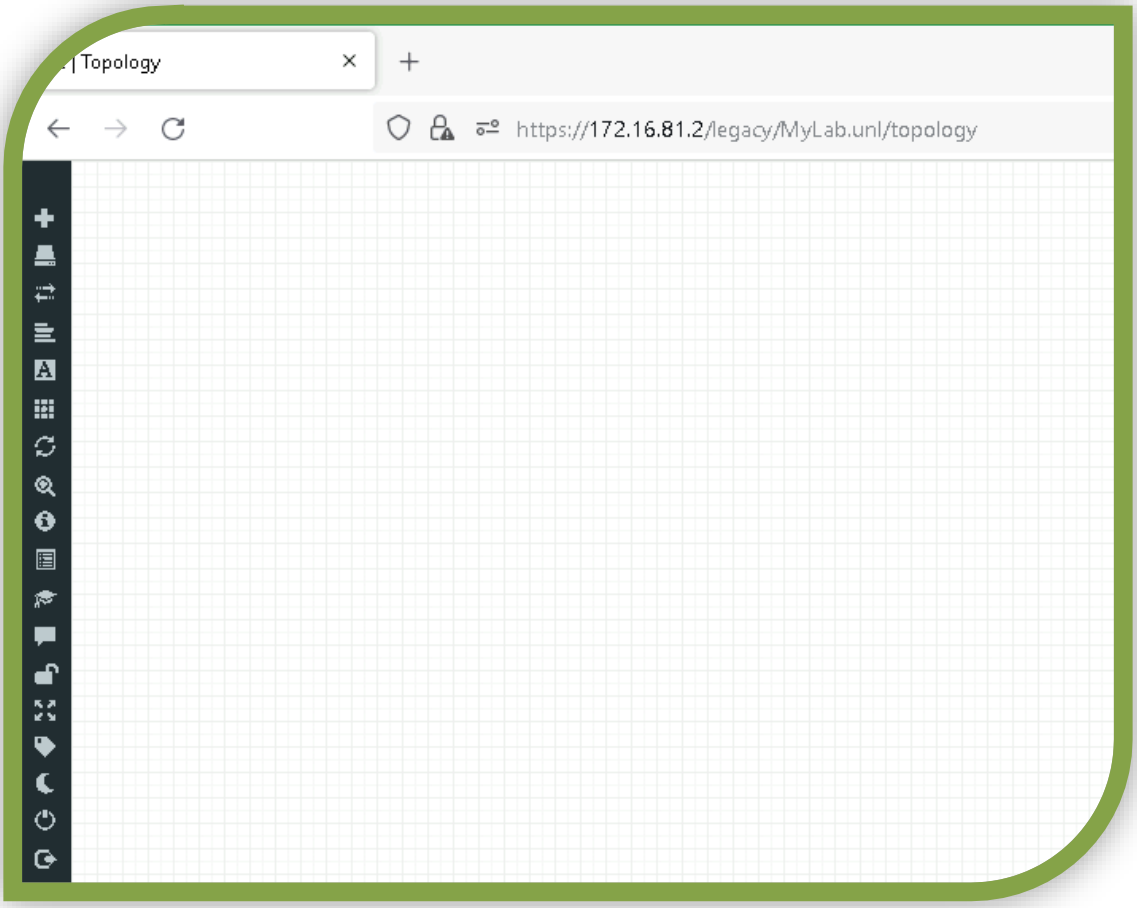
1. For creating a new LAB, you will click the “Add a New Lab” icon.



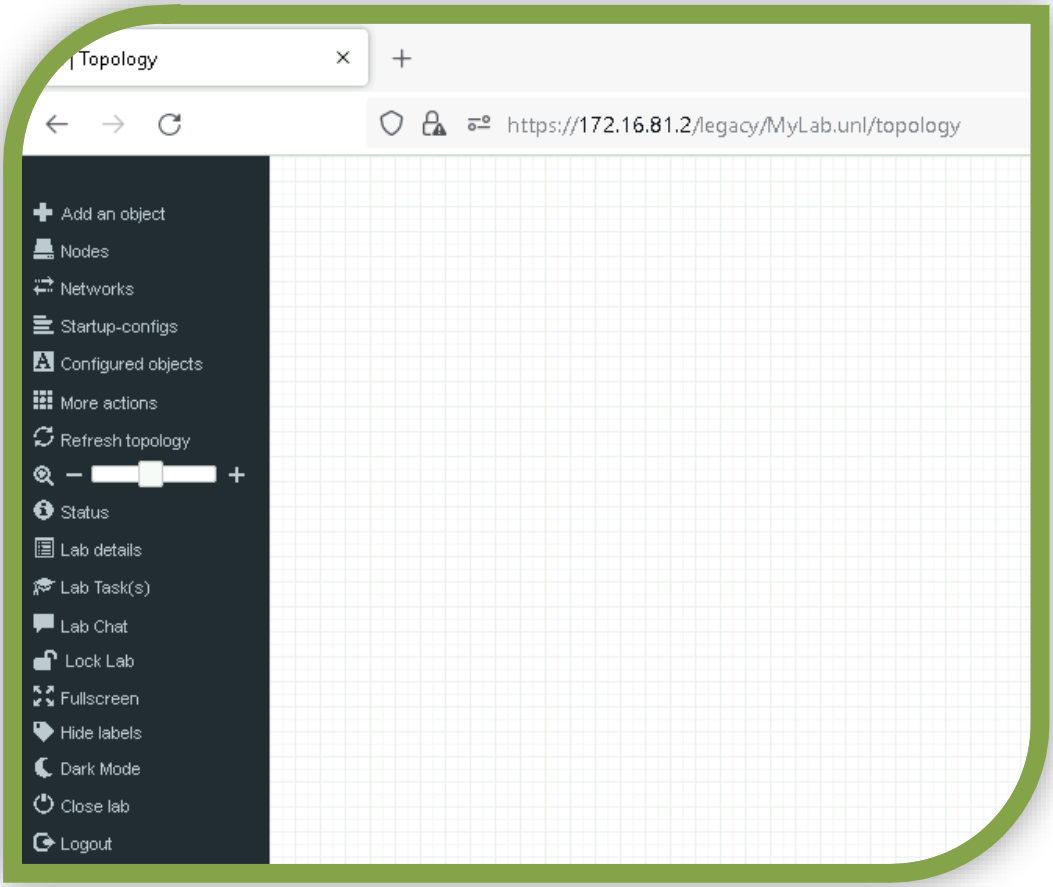
2. After clicking, you will be directed to the following page.



3. You have to enter your LAB name, which is mandatory, and other optional details. Then, click save your lab will be kept and opened.



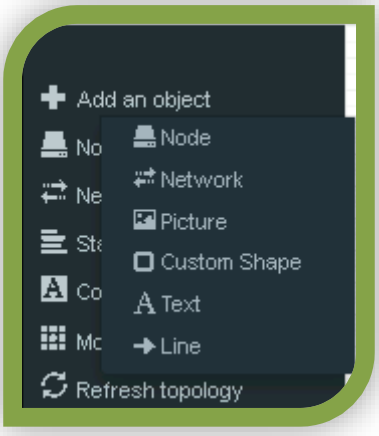
4. Hover your mouse to the left side menu you will see many options related to LAB.



ADDING NODES

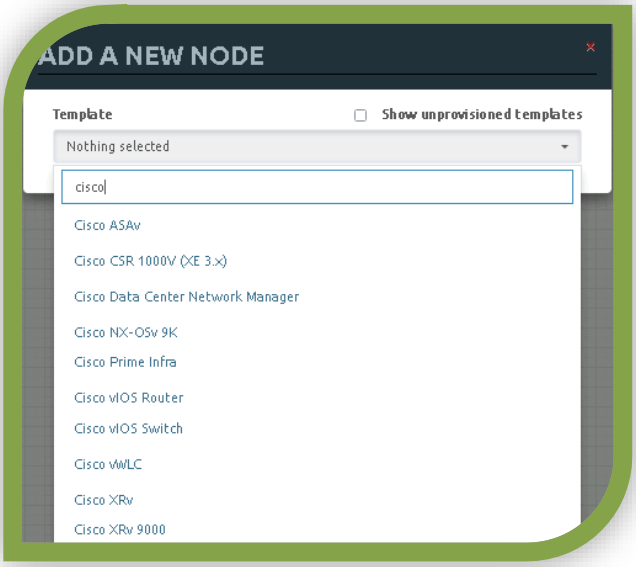
There are two ways for adding nodes

1. Hover your mouse to the left side menu, click “Add an Object,” and click “Node.”



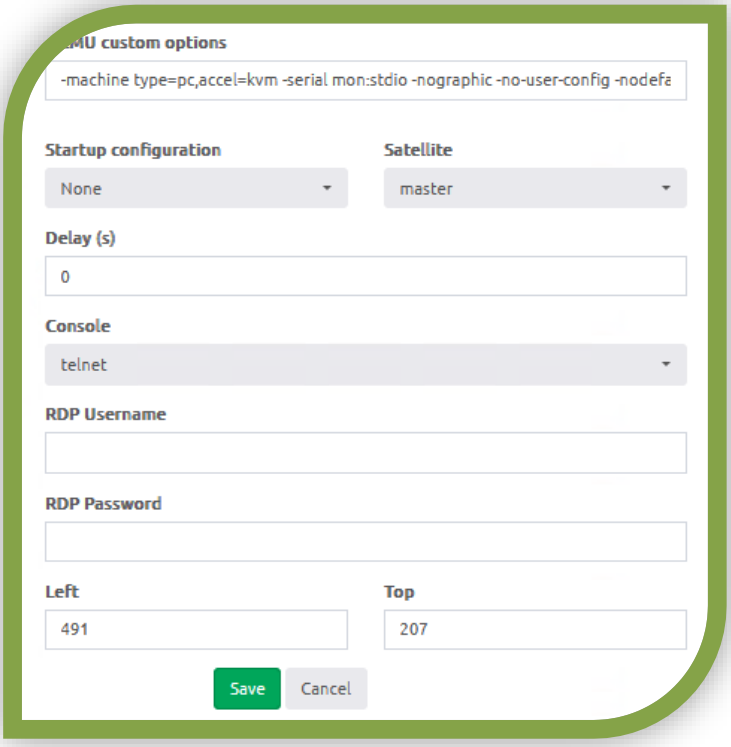
2. Right-click on the grid and select Node.

3. After clicking the Node, you will see a list of Nodes available you can select according to your requirements. You can also type in the search box.



4. After selecting the required Node, you will enter the details according to your requirements on the setting page.


D A NEW NODE
Template
Show unprovisioned templates
Cisco vIOS Router
Number of nodes to add
1
Image
vios-adventerprisek9-m.spa.159-3.m3
Name/prefix
vIOS
Icon
Router.png
UUID
CPU Limit
CPU
1
RAM (MB)
1024
Ethernets
4
First Eth MAC Address
QEMU Version
tpl(2.12.0)
QEMU Arch
tpl(x86_64)
QEMU Nic
tpl(e1000)


MU custom options
-machine type=pc,accel=kvm -serial mon:stdio -nographic -no-user-config -nodefa
Startup configuration
None
Satellite
master
Delay (s)
0
Console
telnet
RDP Username
RDP Password
Left
491
Top
207
Save
Cancel

The following table shows the options with its description while adding a node.

OPTIONS	DESCRIPTION
Template	You can choose any node from the template field to add to the topology.
Number of Nodes to Add	Number of Nodes required for the topology. Choose as per requirement.
Image	Choose the preferred version from the image list.
Name/Prefix	Type the name of the Node as per the requirement
Icon	Choose the Icon for the selected node.
UUID	UUID is assigned automatically. It can be set manually in case you are using a license that is tied to a particular UUID
CPU Limit	CPU Limit per node
CPU	Each node template has a pre-set CPU value that aligns with the vendor requirement. It can be modified.
RAM	Each node template has a pre-set RAM value that aligns with the vendor requirement. It can be modified.
Ethernets	The number of Ethernet interfaces required.
QEMU Version	QEMU version is automatically set to the best value for the node
QEMU Arch	QEMU architecture is pre-set per vendor recommendations.
QEMU NIC	The type of QEMU NIC is pre-set per vendor recommendations.
QEMU custom options	The type of QEMU custom options is pre-set per vendor recommendations.
Startup configuration	The startup configuration value can be changed to set your node to boot from the saved configuration.
Delay	The delay value is set in seconds and can be used to delay a node from booting after it is started.
Console	Console types for each template are pre-set with the recommended settings. This can be changed as per your requirements.

EDIT A NODE

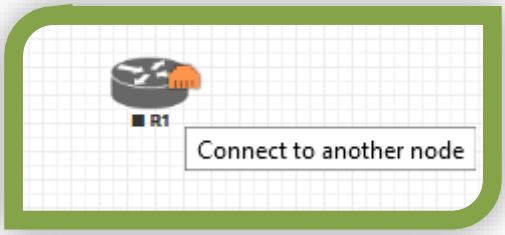
1. A node can be edited globally. Hover your mouse to the right-side menu and click the node.

2. A node can be edited individually. Right-click on the node and click edit.

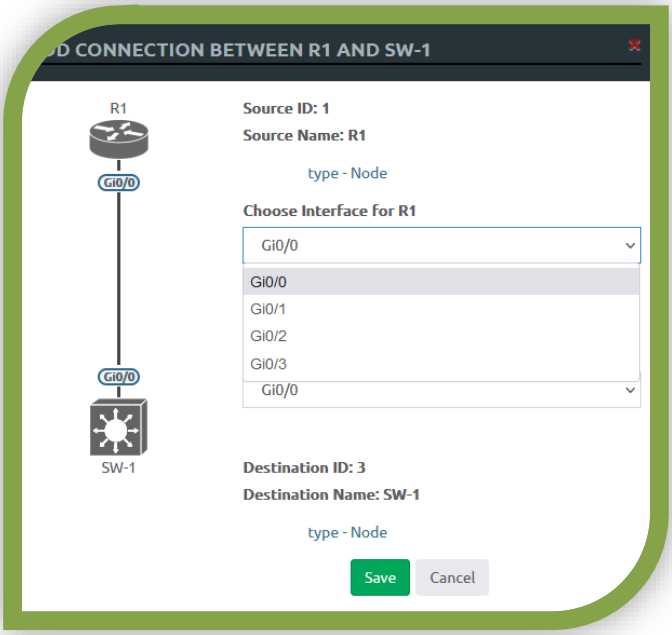
3. Wipe Node will clear the NVRAM of the node. Each time a node setting is changed (RAM, CPU, boot image, or startup configuration,) a wipe must be issued on the node.

INTERCONNECTING NODES

1. To connect nodes, hover your mouse over the node and see an orange plug appear. Click on that orange plug and drag it over to the node you want to connect.



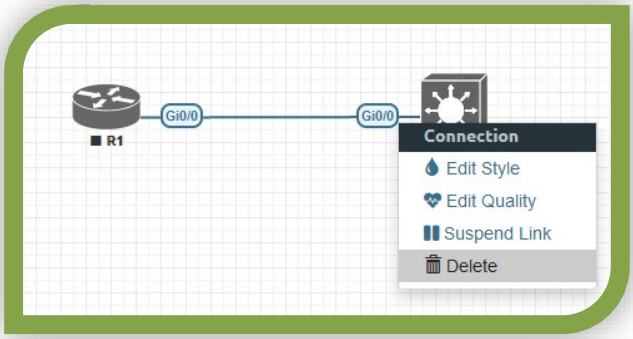
2. You will see a connection window to choose the specific interfaces for each node.



3. Click Save when finished.

DELETE CONNECTION BETWEEN NODES

1. To delete a connection between nodes, right-click on the connection and select delete.



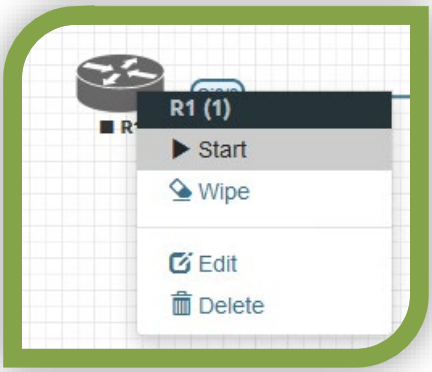
DELETE NODE

1. T delete a node. Right-click on the node and select delete.

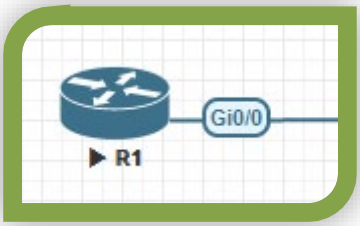
HOW TO START LAB

STARTING NODE INDIVIDUALLY

1. Right-click on each node and click start

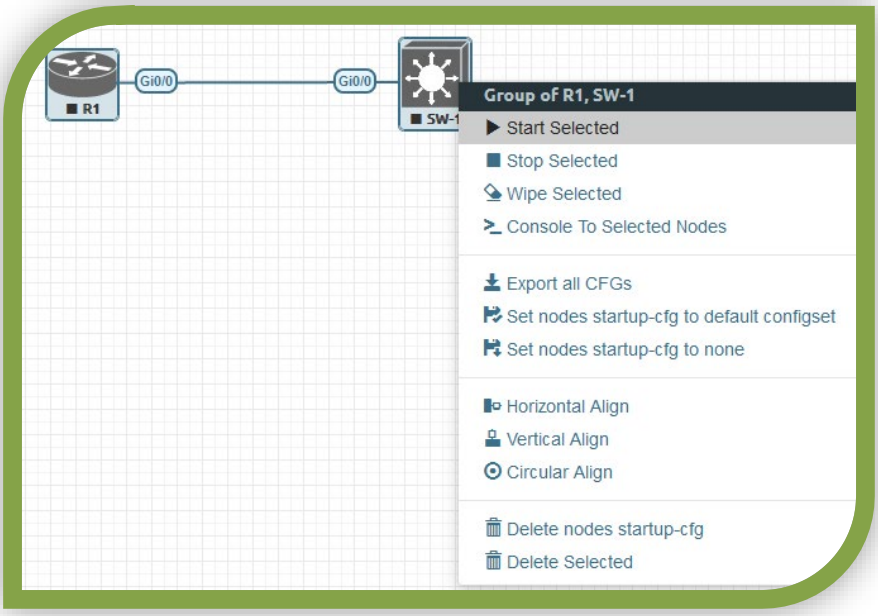


2. Running node turns blue

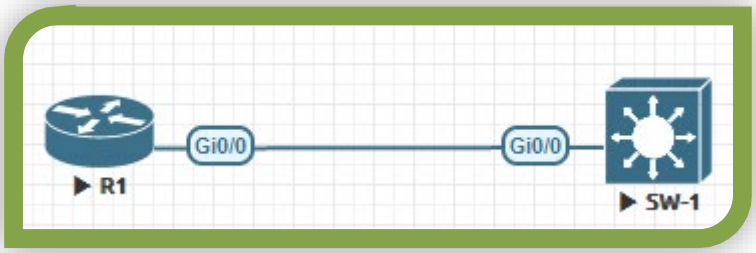


STARTING GROUP ON NODE

1. Press and hold Ctrl on the keyboard while selecting the node you want to start in a group, then right-click on any selected node and click start selected.

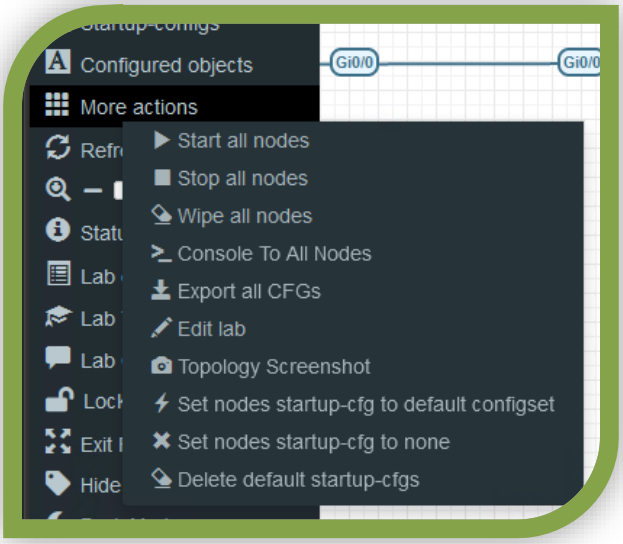


2. Running node will turn blue.



STARTING ALL NODES (AT ONCE)

1. Hover your mouse over the side menu, choose “More Actions,” and click Start All Nodes.



2. Running nodes will turn blue.

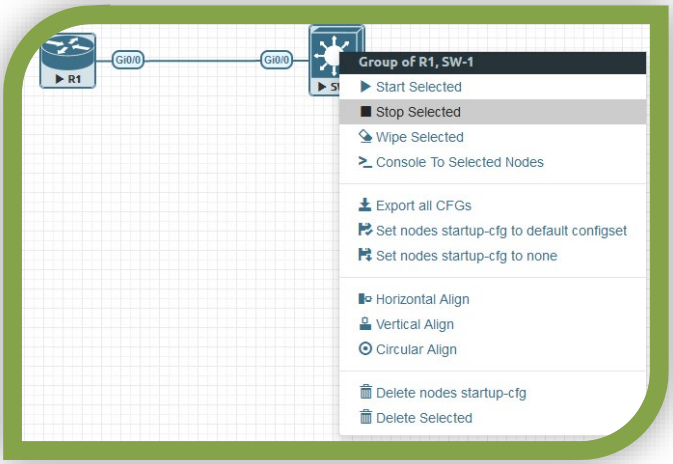
HOW TO STOP LAB

STOPPING INDIVIDUAL NODES

1. Right-click on the running node and click stop.

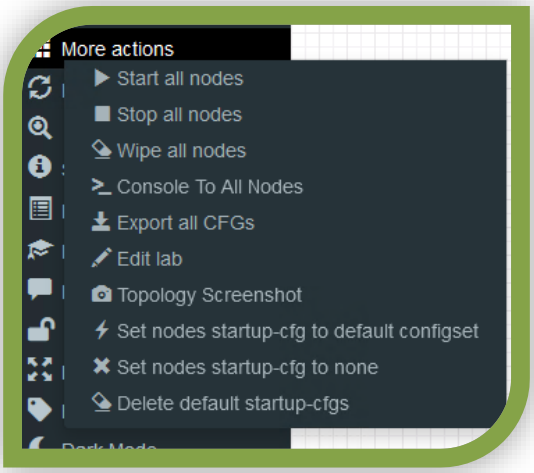
STOPPING GROUP OF NODES

1. Press and hold Ctrl from the keyboard and select the nodes you want to stop. When done, right-click on any selected node and click stop selected.



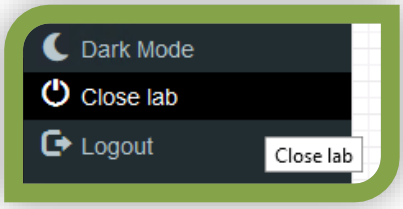
STOPPING ALL NODES (AT ONCE)

1. Hover your mouse to the side menu, choose More actions, and click stop all nodes.



HOW TO CLOSE A LAB

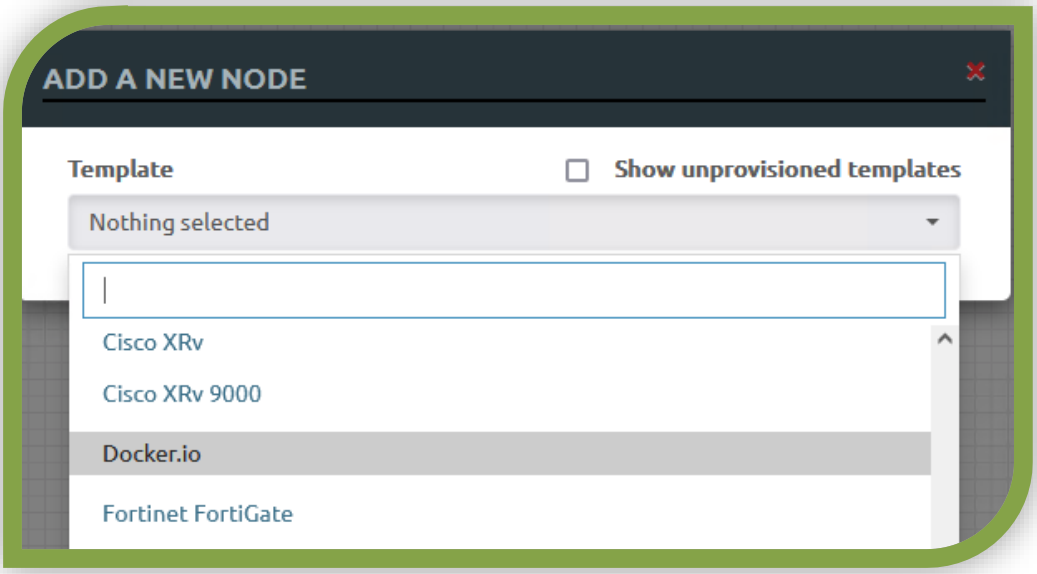
1. Hover your mouse over the side menu and select the close lab



DOCKER

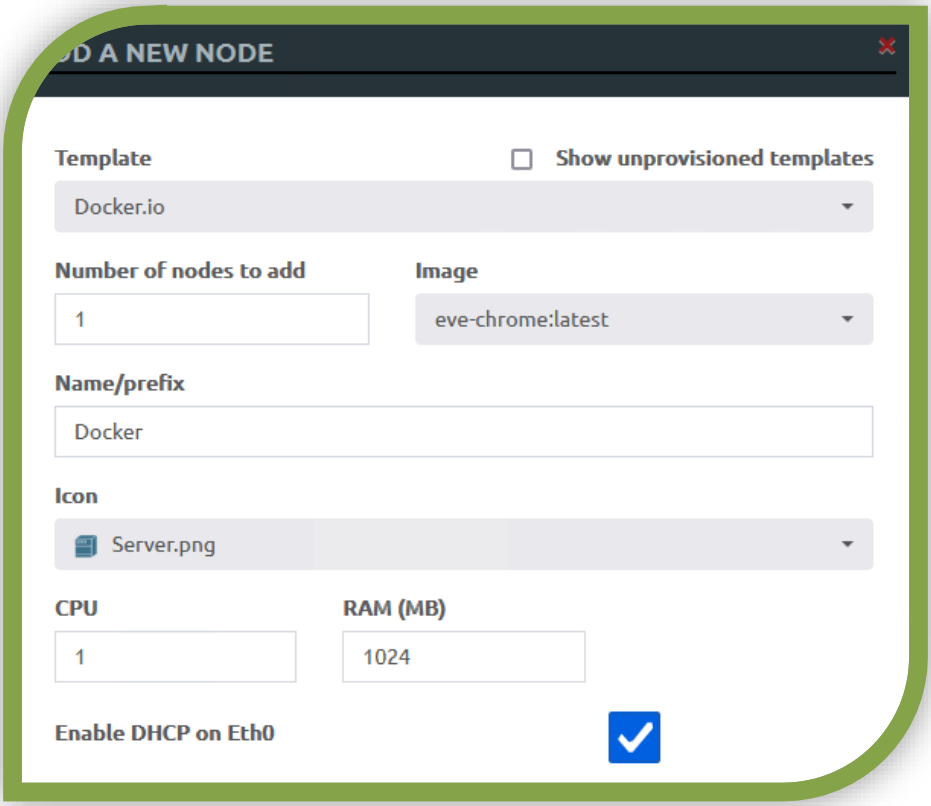
ADD A DOCKER

1. Right-click on the grid and add a node. In the list, select docker



DOCKER SETTINGS

1. After selecting the docker, use any image as per requirement. Also, make sure to enable DHCP.



CREDENTIALS

INSTANCE NAME	USERNAME	PASSWORD	CONSOLE TYPE
Cisco ASA 802		no passwd, hit enter	telnet
Cisco ASA 8.4.2, 9.1.5		no passwd, hit enter	telnet
Cisco ASAv		no passwd, hit enter	telnet
Cisco IPS	cisco	ciscoips123	telnet
Cisco WSA	admin	ironport	telnet/http://ip:8080
Cisco ESA	admin	ironport	telnet/https
Cisco WAAS	admin	default	telnet
Cisco FirePower 6.x			
FMC Node settings	admin	Admin123	vnc
NGIPSv Node settings	admin	Admin123	vnc
FTD Node settings	admin	Admin123	vnc
Cisco WSA	admin	ironport	telnet/https
Cisco ESA	admin	ironport	telnet/https
Cisco vNAM	root	root	vnc
Cisco Titanium	admin	admin	telnet
Cisco ACS 5.8.1 (Licensed) cli	admin	Test123	telnet
Cisco ACS 5.8.1 (Licensed) web	ACSAdmin	Test123	https
Cisco ISE 1.2 Lic	admin	Cisco123	telnet/https
Cisco ISE 1.4 Lic	admin	Test123	telnet/https
Cisco ISE 2.1 Lic	admin	Cisco123	telnet/https
Cisco ISE 2.2 Lic	admin	Test123	telnet/https
Cisco ISE 2.3 Lic	admin	Test123	telnet/https
Cisco XR9K 6.1.2	cisco	cisco	telnet
Cisco NX9K 7.0(3)I5(2)	admin	admin	telnet
FortiGate	admin	no passwd, hit enter	telnet

FortiMail	admin	no passwd, hit enter	telnet
Forti FAZ	admin	no passwd, hit enter	telnet
Forti FMG	admin	no passwd, hit enter	telnet/https
Kali Linux 2016	root	root or Kali123	vnc
Kali Linux 2018	root	toor	vnc
Linux ubuntu server 14.04.4	root	root	telnet
Linux ubuntu server 14.04.4 webmin	root	root	https://ip:10000
Linux Mint 18.3	user	Test123	vnc
Linux Mint root	root	root	vnc
Linux ubuntu desktop 16.04 root	root	Test123	vnc
Linux ubuntu desktop 16.04	user	Test123	vnc
Linux ubuntu desktop 17.1 root	root	Test123	vnc
Linux ubuntu desktop 17.1 root	test	Test123	vnc
Linux ubuntu srv 16.0.1 webmin	root	root	https://ip:10000
cucm-11.5.1.11900-26	admin	eve4cisco	vnc
cucm web access	admin	eve4cisco	https
MAC OSX	user	Test123	vnc
Win2012 RDP/VNC	administrator	Test123	vnc/rdp
Win2016 RDP/VNC	administrator	Test123	vnc/rdp
Win7 RDP	user	Test123	vnc/rdp
Win10 RDP	user	Test123	vnc/rdp
Win2008 RDP	administrator	Test123	vnc/rdp

ADDRESSING

EVE-NG ENVIRONMENT

IP SUBNET/PREFIX	ASSIGNED TO	USE
172.16.81.1/24	Gateway	For providing access
172.16.81.2/24	Assigned to EVE-NG Server	Server communication
172.16.81.3/24	Jump Host	VDI communication
172.16.81.4/24	Wireless PC	
172.16.81.11 – 172.16.81.100 172.16.81.151 – 172.16.81.254	Spare IP RANGE – Static Assignment	Can be used for static assignment
172.16.81.101 – 172.16.80.150	Spare IP RANGE – DHCP Assignment	Can be used for DHCP assignment
172.16.81.49 – 172.16.81.99	Assigned to Fortinet LABs	Please don't use it for static assignments (Already in Use)

WIRELESS ACCESS POINT

IP ADDRESS	USERNAME	PASSWORD	ACCESS PROTOCOL
192.168.190.109:7011	Cisco	Cisco	Telnet

WIRELESS PC

IP ADDRESS	USERNAME	PASSWORD
172.16.81.4	User	Test123