

Florida International University
School of Computing and Information Sciences

Software Engineering Focus

User Manual

AMPATH - Network Services and User Interface Design Project

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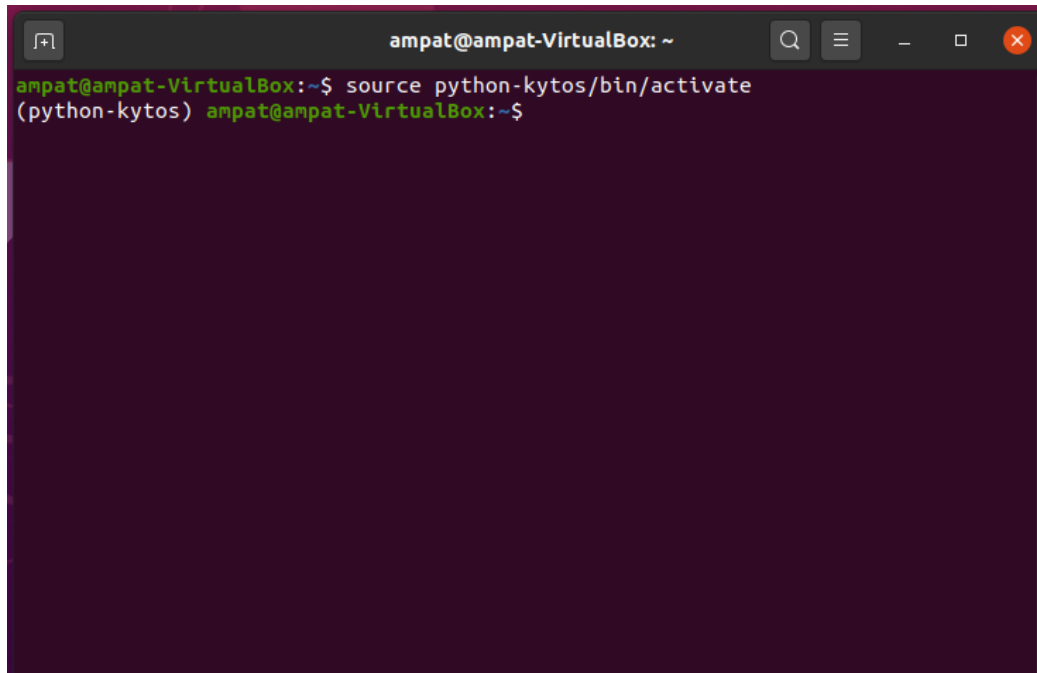
Mentor: Jeronimo Bezerra

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This section contains all the necessary steps in order to successfully run Kytos E Line NApp

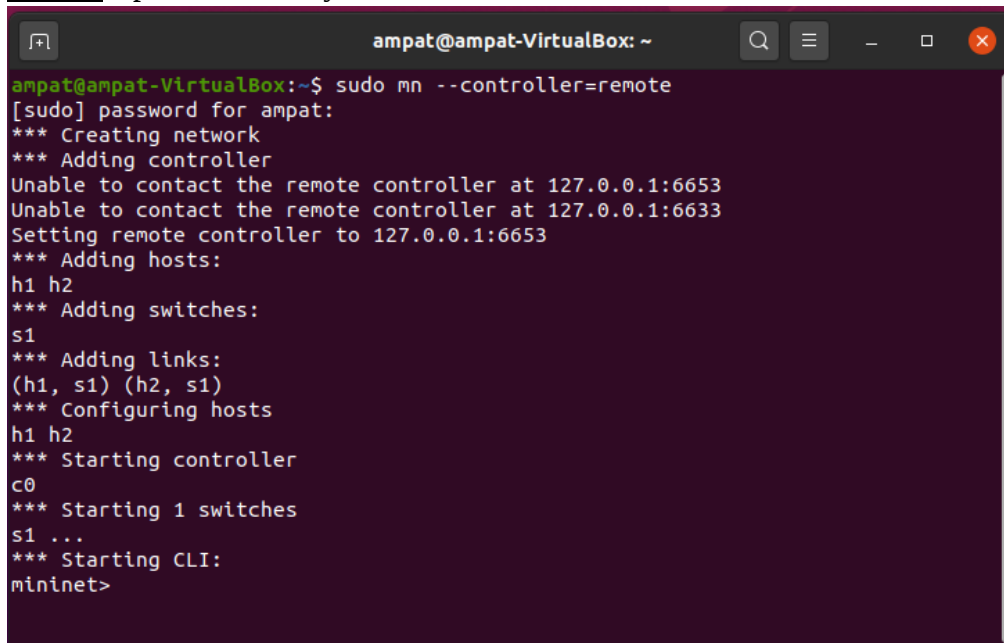
Open Kytos Web UI

Step 1: Open a terminal window and start your virtual environment



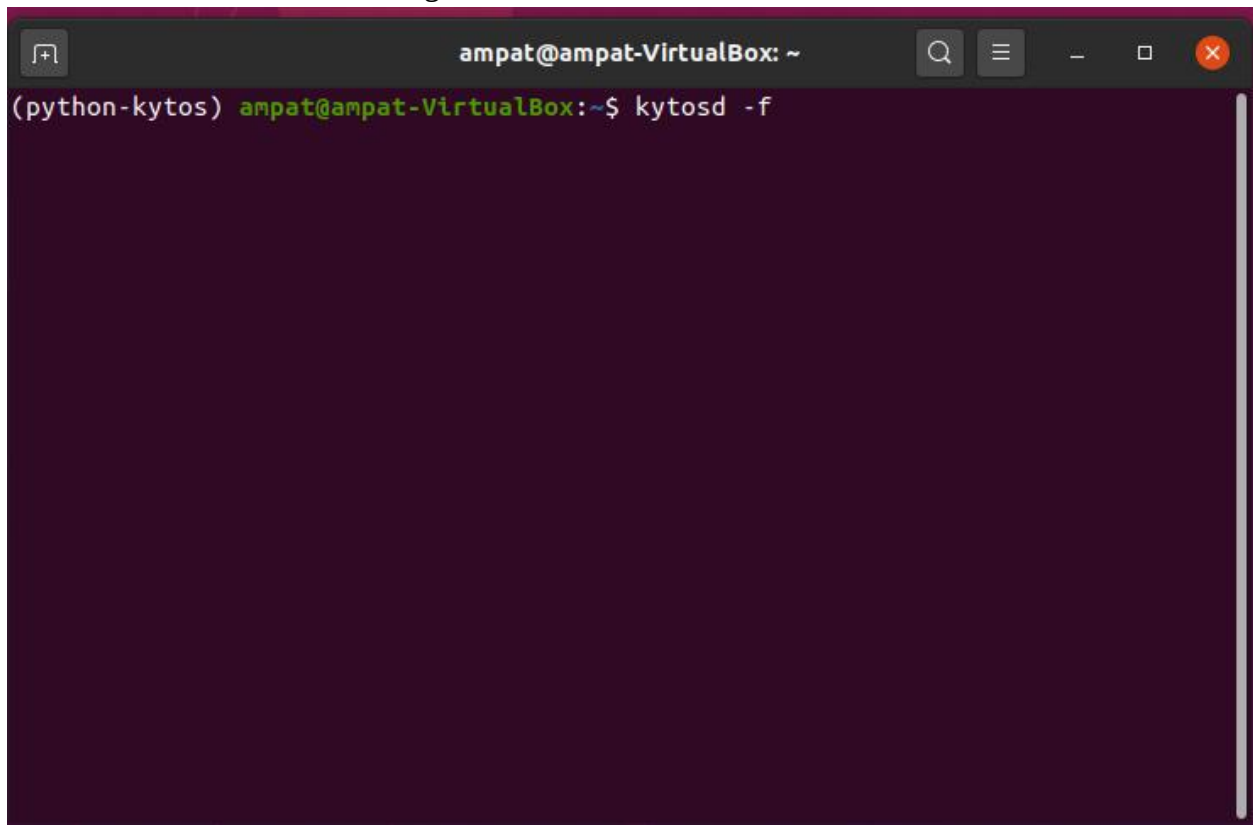
```
ampat@ampat-VirtualBox: ~  
$ source python-kytos/bin/activate  
(python-kytos) ampat@ampat-VirtualBox:~$
```

Step 2: Open a secondary terminal window and enter the command to run Mininet.

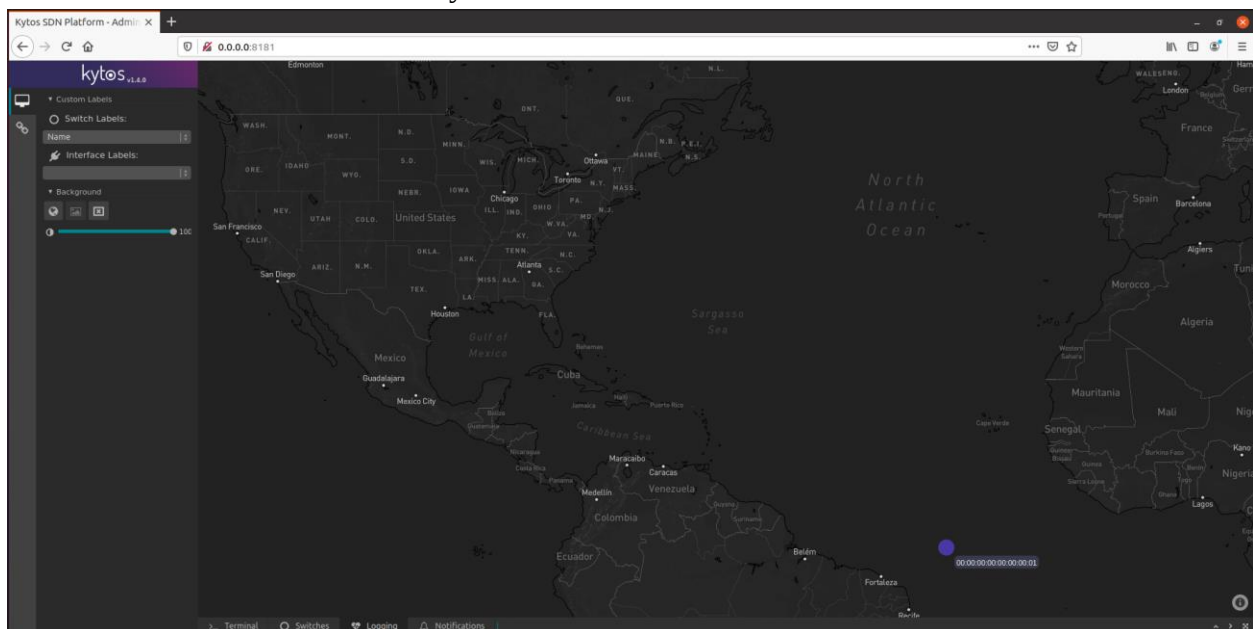


```
ampat@ampat-VirtualBox: ~  
$ sudo mn --controller=remote  
[sudo] password for ampat:  
*** Creating network  
*** Adding controller  
Unable to contact the remote controller at 127.0.0.1:6653  
Unable to contact the remote controller at 127.0.0.1:6633  
Setting remote controller to 127.0.0.1:6653  
*** Adding hosts:  
h1 h2  
*** Adding switches:  
s1  
*** Adding links:  
(h1, s1) (h2, s1)  
*** Configuring hosts  
h1 h2  
*** Starting controller  
c0  
*** Starting 1 switches  
s1 ...  
*** Starting CLI:  
mininet>
```

Step 3: On the first terminal window with the test environment running, input the kytos command to launch it in the foreground.

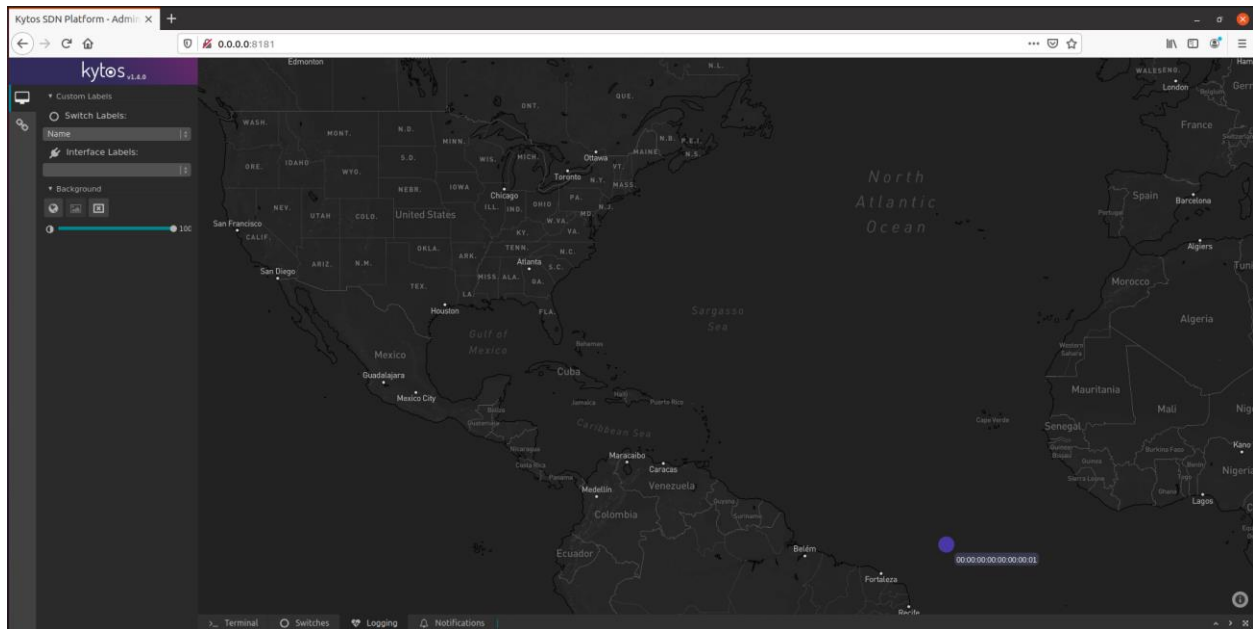


Step 4: Open your web browser of choice and navigate to <http://0.0.0.0:8181>; you should see the list of switches that were created by the mininet command on the UI.

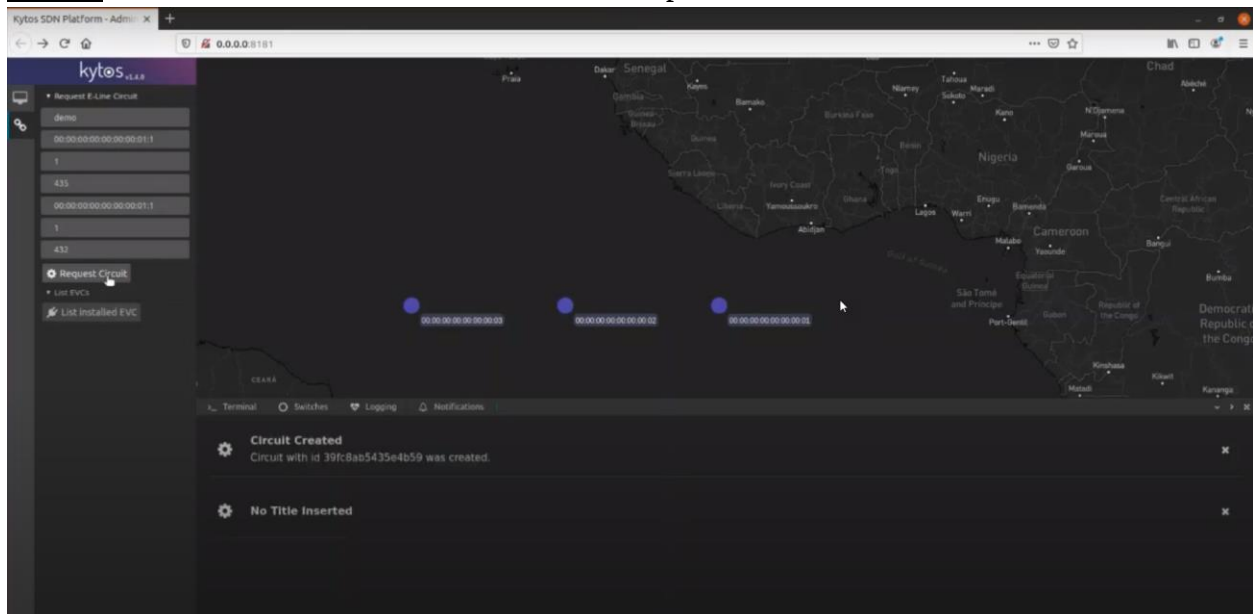


Navigate through E Line UI

Step 1: Once the Kytos Web UI is launched, expand the left toolbar and click on the second button from the top (Mef-Eline)



Step 2: To create a new Ethernet Virtual Circuit, input information for two switches and click on



Step 3: After you successfully created the connection, Click on the List Installed EVCs, which will open a table with a list of connections. Your newly created connection should be listed on

this table

Firefox Web Browser - Kytos SDN Platform - Admin

0.0.0.0:181

kytos v1.4.0

Request E-Line Circuit

Circuit Name

First endpoint

Tag type

Tag value

Last endpoint

Tag type

Tag value

Request Circuit

List EVCs

List installed EVC

View Connections by kytos/mef_eline

5	demo1	00:00:00:00:00:00:02:1	437	00:00:00:00:00:00:01:1	439	false	false
6	test53	00:00:00:00:00:00:02:1	98	00:00:00:00:00:00:03:1	89	false	false
7	circuit_demo	00:00:00:00:00:00:02:1	1100	00:00:00:00:00:00:03:1	1100	false	false
8	test	00:00:00:00:00:00:00:03:1	1	00:00:00:00:00:00:02:1	1	false	false
9	test	00:00:00:00:00:00:00:01:1	33	00:00:00:00:00:00:02:1	34	false	false
10	demo	00:00:00:00:00:00:00:01:1	435	00:00:00:00:00:00:01:1	432	false	false

Terminal Switches Logging Notifications