# NETWORX TOOL AUTOMATION

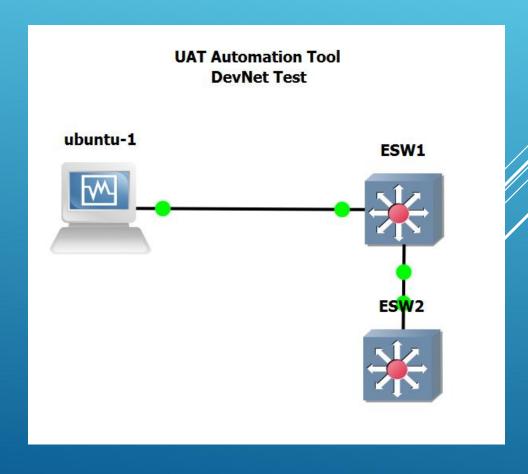
**DEVELOPED BY SM@DEVEL** 

## **OBJECTIVE**

- Desiging Automation Tool written in Python and using a Framework
- 2. To test Automation Tool for Cisco Switch/Router
- 3. Connecting to device shall use SSH

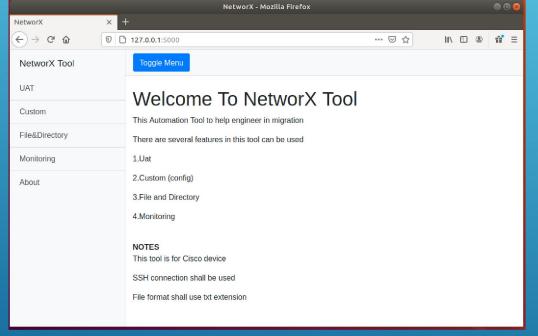
# NETWORK TOPOLOGY

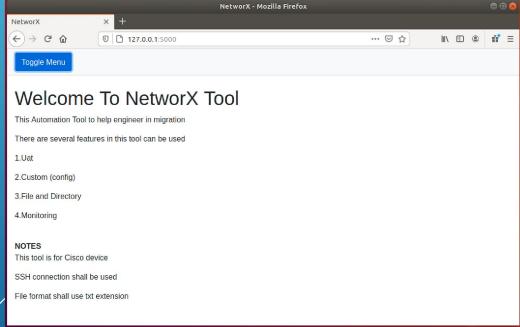
Network diagram



# MAIN MENU LANDING PAGE

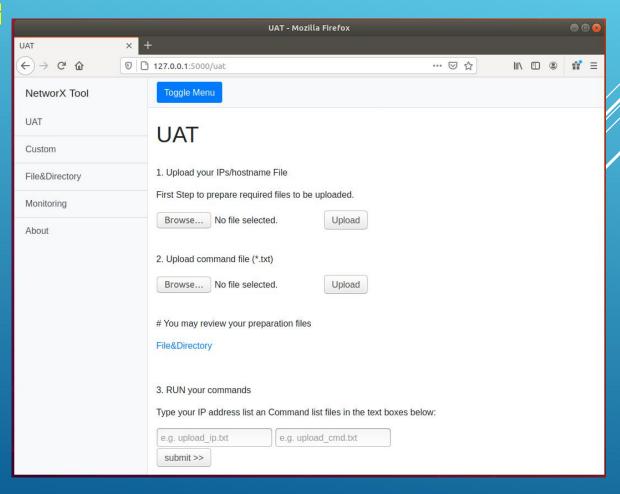
http://127.0.0.1:5000





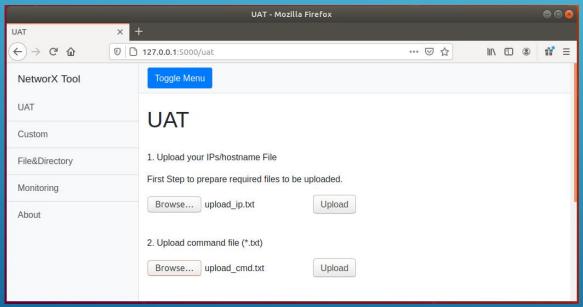
# UAT MENU LANDING PAGE

http://127.0.0.1:5000/uat

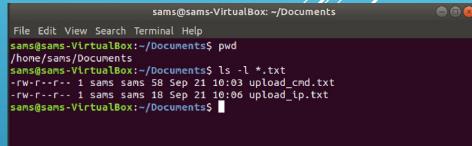


### UAT MENU - FILE PREPARATION

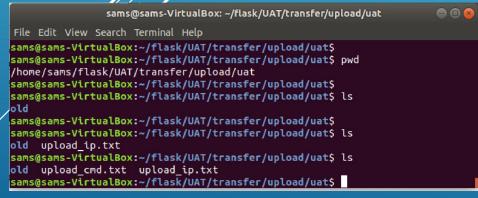
http://127.0.0.1:5000/uat



#### Source files to upload from dir: /home/soms/Documents



#### Files uploaded into dir./home/sams/Documents



#### UAT MENU - DEBUG OUTPUT

http://127.0.0.1:5000/uat

#### **Executing commands**

3. RUN your commands

Type your IP address list an Command list files in the text boxes below:

upload\_ip.txt

upload\_cmd.txt

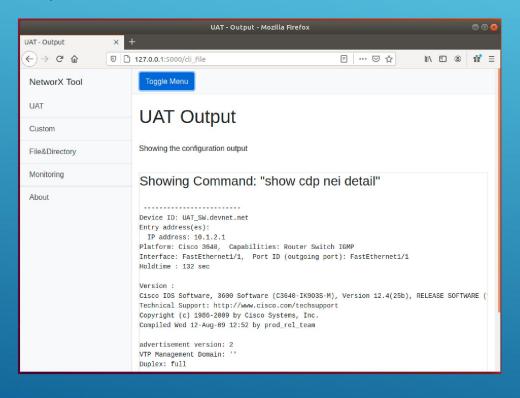
submit >>

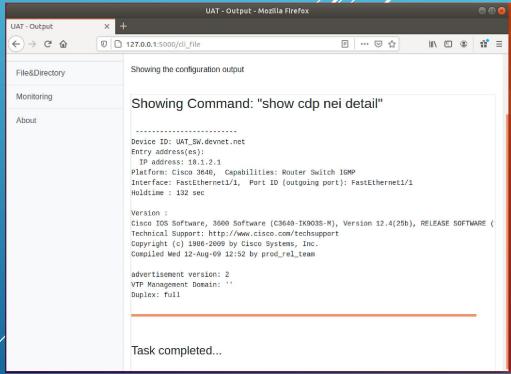
#### Debug terminal > Observing background process

```
sams@sams-VirtualBox: ~/flask/UAT
                                                                           File Edit View Search Terminal Help
127.0.0.1 - - [23/Sep/2020 01:27:18] "GET /uat HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 01:27:19] "GET /custom HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 01:27:21] "GET /filedir HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 01:27:22] "GET /monitoring HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 01:27:23] "GET /about HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 01:28:54] "GET /uat HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 10:55:23] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 10:58:13] "GET /uat HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 11:00:21] "GET /custom HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 11:01:21] "GET /about HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2020 11:03:15] "GET /uat HTTP/1.1" 200 -
10.1.1.1
show ver
show ip int br
show ip route
show run | sec line
show env
show cdp nei
show cdp nei detail
10.1.2.2
show ver
show ip int br
show ip route
show run | sec line
show env
show cdp nei
show cdp nei detail
127.0.0.1 - - [23/Sep/2020 11:11:05] "POST /cli file HTTP/1.1" 200 -
```

## UAT MENU - OUTPUT ON SCREEN

http://127.0.0.1:5000/uat





## UAT MENU - OUTPUT FILE IN DIR

http://127.0.0.1:5000/uat

```
sams@sams-VirtualBox: -/flask/UAT/output/uat

File Edit View Search Terminal Help

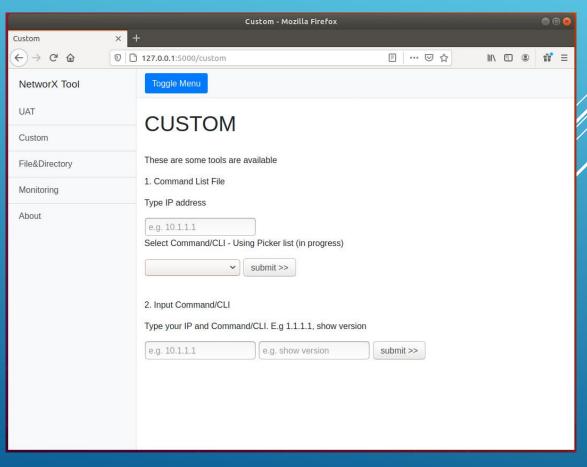
sams@sams-VirtualBox: -/Oocuments$ cd ..
sams@sams-VirtualBox: -/ cd flask/UAT/output/uat/
sams@sams-VirtualBox: -/ flask/UAT/output/uat$ pwd
/home/sams/flask/UAT/output/uat$ ls
'10.1.1.1_show ip int br_2020-09-22_091117.txt' '10.1.2.2_show ip int br_2020-09-22_091148.txt'
'10.1.1.1_show ip route_2020-09-22_091123.txt' '10.1.2.2_show ip route_2020-09-22_091153.txt'
'10.1.1.1_show run | sec line_2020-09-22_091130.txt' '10.1.2.2_show run | sec line_2020-09-22_091200.txt'
'10.1.1.1_show ver_2020-09-22_091112.txt' '10.1.2.2_show ver_2020-09-22_091142.txt'
sams@sams-VirtualBox:~/flask/UAT/output/uat$
```

```
sams@sams-VirtualBox: ~/flask/UAT/output/uat
File Edit View Search Terminal Help
sams@sams-VirtualBox:~/flask/UAT/output/uat$ cat 10.1.1.1_show\ ip\ int\ br_2020-09-22_091117.txt
Interface
                          IP-Address
                                          OK? Method Status
                                                                            Protocol
FastEthernet1/0
                          10.1.1.1
                                          YES NVRAM up
FastEthernet1/1
                          10.1.2.1
                                          YES manual up
                                                                            Up
FastEthernet1/2
                                          YES unset up
                                                                            down
                          unassigned
FastEthernet1/3
                                          YES unset up
                          unassigned
                                                                            down
FastEthernet1/4
                                          YES unset up
                                                                            down
                          unassigned
FastEthernet1/5
                          unassigned
                                          YES unset up
                                                                            down
FastEthernet1/6
                                          YES unset up
                          unassigned
                                                                            down
FastEthernet1/7
                                          YES unset up
                          unassigned
                                                                            down
FastEthernet1/8
                                          YES unset up
                          unassigned
                                                                            down
FastEthernet1/9
                                          YES unset up
                          unassigned
                                                                            down
FastEthernet1/10
                          unassigned
                                          YES unset up
                                                                            down
FastEthernet1/11
                          unassigned
                                          YES unset up
                                                                            down
FastEthernet1/12
                          unassigned
                                          YES unset up
                                                                            down
FastEthernet1/13
                          unassigned
                                          YES unset up
FastEthernet1/14
                          unassigned
                                          YES unset up
                                                                            down
FastEthernet1/15
                          unassigned
                                          YES unset up
                                          YES NVRAM administratively down down
                                                                                   sams@sams-VirtualBox:~/
Vlan1
                          unassigned
sams@sams-VirtualBox:~/flask/UAT/output/uat$
```

```
sams@sams-VirtualBox: ~/flask/UAT/output/uat
File Edit View Search Terminal Help
sams@sams-VirtualBox:~/flask/UAT/output/uat$ cat 10.1.2.2 show\ ip\ int\ br 2020-09-22 091148.txt
Interface
                           IP-Address
                                           OK? Method Status
                                                                           Protocol
FastEthernet1/0
                          unasstaned
                                           YES unset up
                                                                           down
FastEthernet1/1
                           10.1.2.2
                                           YES manual up
                                                                           up
FastEthernet1/2
                           unassigned
                                           YES unset up
                                                                           down
FastEthernet1/3
                           unassigned
                                           YES unset up
                                                                           down
FastEthernet1/4
                                           YES unset up
                           unassigned
                                                                           down
FastEthernet1/5
                          unassigned
                                           YES unset up
                                                                           down
FastEthernet1/6
                           unassigned
                                           YES unset up
                                                                            down
FastEthernet1/7
                           unassigned
                                           YES unset up
                                                                           down
FastEthernet1/8
                           unassigned
                                           YES unset up
                                                                            down
FastEthernet1/9
                           unassigned
                                           YES unset up
                                                                           down
FastEthernet1/10
                          unassigned
                                           YES unset up
                                                                           down
FastEthernet1/11
                           unassigned
                                           YES unset up
                                                                            down
                                           YES unset up
FastEthernet1/12
                          unassigned
                                                                           down
FastEthernet1/13
                           unassigned
                                           YES unset up
                                                                            down
FastEthernet1/14
                          unassigned
                                           YES unset up
                                                                           down
FastEthernet1/15
                          unassigned
                                           YES unset up
                                                                           down
Vlan1
                           unassigned
                                           YES NVRAM administratively down down
                                                                                   sams@sams-VirtualBox:~/
flask/UAT/output/uat$
```

## CUSTOM MENU LANDING PAGE

http://127.0.0.1:5000/custom



# ABOUT LANDING PAGE

http://127.0.0.1:5000/about

