Set Proxy for Ubuntu to connect internet in NetSim

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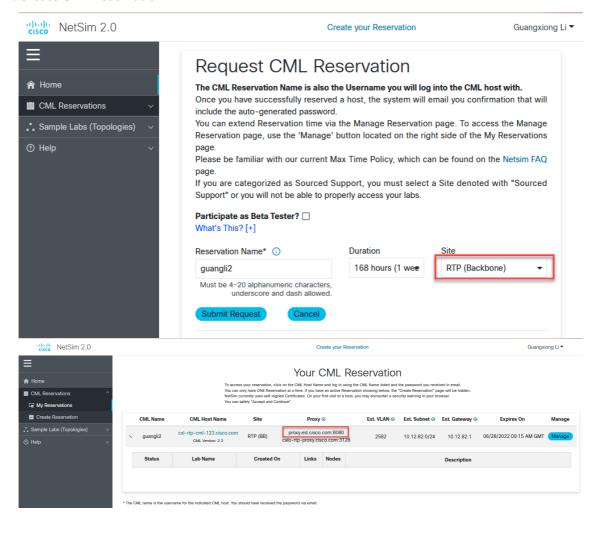
1. Set Proxy

For connect internet ,There are two parts using proxy in NetSim.

- 1. Linux CLI
- 2. apt to install software

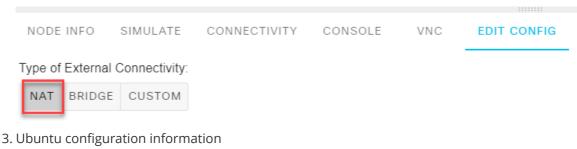
2. Set Ubuntu in NetSim

1. Create CML Reservation



2. Topology and ext-conn-0 configuration





username:cisco, password: cisco

```
NODE INFO
            SIMULATE
                        CONNECTIVITY
                                        CONSOLE
                                                    VNC
                                                             EDIT CONFIG
                                                                           INTERFACES

    Configuration is locked: Wipe this node to edit its configuration.

1 #cloud-config
  2 hostname: inserthostname here
  3 manage_etc_hosts: True
  4 system info:
     default_user:
       name: cisco
  7 password: cisco
  8 chpasswd: { expire: False }
  9 ssh_pwauth: True
 10 ssh_authorized_keys:
       - your-ssh-pubkey-line-goes-here
```

3. Set Proxy for Ubuntu in NetSim

After ubuntu is booted, set below information

3.1 Linux CLI

1. set proxy

```
1 cisco@ubuntu:~$ export http_proxy="proxy.esl.cisco.com:8080"
   cisco@ubuntu:~$ export https_proxy="proxy.esl.cisco.com:8080"
   cisco@ubuntu:~$ export no_proxy="*.cisco.com, cisco.com"
```

2. Test Connection

ping command is not working.use curl to test

```
cisco@ubuntu:/etc/apt/apt.conf.d# curl -I www.google.com
2
   HTTP/1.1 200 OK
   P3P: CP="This is not a P3P policy! See g.co/p3phelp for more info."
```

```
4 Date: Wed, 22 Jun 2022 04:29:34 GMT
   Server: gws
 6 X-XSS-Protection: 0
 7 X-Frame-Options: SAMEORIGIN
   Expires: Wed, 22 Jun 2022 04:29:34 GMT
   Cache-Control: private
   Set-Cookie: 1P_JAR=2022-06-22-04; expires=Fri, 22-Jul-2022 04:29:34 GMT;
    path=/; domain=.google.com; Secure
11 Set-Cookie: AEC=AakniGOCYHEr_e1KITKpiSh2UhF7YjaG5u0ciUpWlL4X-
    H7ptPQRu0izZag; expires=Mon, 19-Dec-2022 04:29:34 GMT; path=/;
    domain=.google.com; Secure; HttpOnly; SameSite=lax
12 Set-Cookie: NID=511=iYyPjVz6papsCCT9GaAKdzIatEwNqpHxA-
    7wiZfzSibvvSrun20QnfLMXGNCFGgDo2xNvpwcsbinft4iQFpNOhCaEGbIWE_mnAOU43Lx3f
    uZg7Ig4GJJ086PX1IPNPqbLYOF8RPw38QC85Iucq0hMIeH2FgTg_N_y6SO2za8eZs;
    expires=Thu, 22-Dec-2022 04:29:34 GMT; path=/; domain=.google.com;
    HttpOnly
13 | Content-Type: text/html; charset=ISO-8859-1
   Via: 1.1 rtp5-lab-wsa-1.cisco.com:80 (Cisco-WSA/X)
   Connection: keep-alive
15
16 Proxy-Connection: keep-alive
```

3.2 Linux apt proxy

1. set proxy

```
cisco@ubuntu:~$ cd /etc/apt/apt.conf.d
cisco@ubuntu:/etc/apt/apt.conf.d$ sudo vim proxy.conf
Acquire::http::Proxy "http://proxy.esl.cisco.com:80";
Acquire::https::Proxy "http://proxy.esl.cisco.com:80";
```

2. Update repository

```
1 | cisco@ubuntu:~$ sudo apt update
```

3. Install a software

```
cisco@ubuntu:/etc/apt/apt.conf.d# sudo apt install tree
Reading package lists... Done
Building dependency tree
Reading state information... Done
tree is already the newest version (1.8.0-1).
```

Reference:

NetSim FAQs

https://netsim2.cisco.com/faq