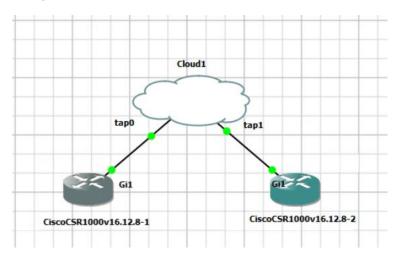
Enable the Netconf on the Router

Build the Network Topology in GNS3 as per below



DHCP will allocate the IP address to the Router

Router#show ip int	brief		
Interface	IP-Address	OK? Method St	atus Protocol
GigabitEthernet1	172.20.0.98	YES DHCP up	սթ
GigabitEthernetZ	unassigned	YES unset do	wn down
GigabitEthernet3	unassigned	YES unset do	wn down
GigabitEthernet4	unassigned	YES unset do	wn down

Go to Config Mode:

Conf t

user admin privilege 15 secret cisco123 aaa new-model aaa authentication login default local aaa authorization exec default local Netconf-yang

```
Router(config)#user admin privilege 15 secret cisco123
Router(config)#aaa new-m
Router(config)#aaa new-model
Router(config)#aaa authe
Router(config)#aaa authen
Router(config)#aaa authen
Router(config)#aaa authentication login def
Router(config)#aaa authentication login def
Router(config)#aaa authentication login default loc
Router(config)#aaa authentication login default local
Router(config)#aaa authentication login default local
Router(config)#aaa authroriz
Router(config)#aaa authoriz
Router(config)#aaa authorization ex
Router(config)#aaa authorization exec def
Router(config)#aaa authorization exec default lo
Router(config)#aaa authorization exec default lo
Router(config)#aaa authorization exec default local
Router(config)#net
Router(config)#net
Router(config)#netconf-y
Router(config)#netconf-y
Router(config)#netconf-yang
```

Show platform software yang-management process

```
Router#show platform software yang-management process
confd
                    Running
                    Running
nesd
syncfd
                    Running
                    Running
ncsshd
dmiauthd
                    Running
nginx
                    Running
                    Running
ndbmand
                  : Running
pubd
```

Go to Command prompt and check the yang connectivity

Ssh admin@IP -p 830 -s netconf -- connect via cmd prompt

```
C:\Users\Administrator>ssh admin@172.20.0.67 -p 830 -s netconf
The authenticity of host '[172.20.0.67]:830 ([172.20.0.67]:830)' can't be established.
RSA key fingerprint is SHA256:MSYPZH3dtKfwDIH5FLIYIDIC+uuFEyGdaMwxvxAManE.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[172.20.0.67]:830' (RSA) to the list of known hosts.
admin@172.20.0.67's password:
Permission denied, please try again.
admin@172.20.0.67's password:
<?xml version="1.0" encoding="UTF-8"?>
<hello xmlns="urn:ietf:params:netconf:base:1.0">
<capabilities>
<capability>urn:ietf:params:netconf:base:1.0</capability>
<capability>urn:ietf:params:netconf:capability:writable-running:1.0</capability>
<capability>urn:ietf:params:netconf:capability:writable-running:1.0</capability>
<capability>urn:ietf:params:netconf:capability:validate:1.0</capability>
<capability>urn:ietf:params:netconf:capability:validate:1.0</capability>
<capability>urn:ietf:params:netconf:capability:validate:1.0</capability>
<capability>urn:ietf:params:netconf:capability:validate:1.0</capability>
<capability>urn:ietf:params:netconf:capability:validate:1.0</capability>
<capability>urn:ietf:params:netconf:capability:notification:1.0</capability>
<capability>urn:ietf:params:netconf:capability:interleave:1.0</capability>
<capability>urn:ietf:params:netconf:capability:with-defaults:1.0?basic-mode=explicit&amp;also-supported=d</capability>urn:ietf:params:netconf:capability:yang-library:1.0?revision=2016-06-21&amp;module-set-id=b1
50b51197785edf</capability>
<capability>http://tail-f.com/ns/netconf/actions/1.0</capability>
<capability>http://tail-f.com/ns/netconf/actions/1.0</capability>
<capability>http://tail-f.com/ns/netconf/actions/1.0</capability>
```

Start a NETCONF session by sending a hello message from the client.

Copy and paste the following XML code into the SSH session. Notice that the end of the client hello message is identified with a]]>]]>.

show netconf-yang sessions

```
Router#show netconf-yang sessions
R: Global-lock on running datastore
C: Global-lock on candidate datastore
S: Global-lock on startup datastore
Number of sessions : 1
session-id transport username source-host global-lock
```

Close the NETCONF session

To close the NETCONF session, the client needs to send the following RPC message:

Return to the router prompt and show the open netconf sessions. You will see that the session has been closed.

Router#show netconf-yang sessions There are no active sessions

Get the interface IP address details:

Get the router hostname

Change the router hostname

Change the interface status to down

Create the Loopback interface

```
rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
     <running/>
    </target>
    <config>
     <Loopback>
         <name>4</name>
          <ip>
          <address>
            mary>
            <address>14.1.1.1</address>
<mask>255.255.255.0</mask>
           </primary>
          </address>
         </ip>
       </Loopback>
     </native>
 </config>
</edit-config>
</rp>
<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="101"><ok/></rpc-reply>||>||>
```

Delete the Loopback interface