

SSH Mininet

```
[Group6@group6d ~]$ ssh -X mininet@192.168.106.101
mininet@192.168.106.101's password:
Welcome to Ubuntu 13.04 (GNU/Linux 3.8.0-19-generic i686)
```

* Documentation: <https://help.ubuntu.com/>
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
<http://www.ubuntu.com/releaseendoflife>

New release '13.10' available.

Run 'do-release-upgrade' to upgrade to it.

```
mininet> h1 ifconfig -a
```

```
h1-eth0  Link encap:Ethernet HWaddr b6:3f:4f:8f:33:c3
          inet addr:10.0.0.1 Bcast:10.255.255.255 Mask:255.0.0.0
          inet6 addr: fe80::b43f:4fff:fe8f:33c3/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:5 errors:0 dropped:0 overruns:0 frame:0
          TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:378 (378.0 B) TX bytes:468 (468.0 B)
```

```
lo      Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
```

Creating Network

Last login: Tue Apr 29 20:20:05 2014 from 192.168.106.1

```
mininet@mininet-vm:~$ sudo mn
```

```
*** Creating network
```

```
*** Adding controller
```

```
*** Adding hosts:
```

```
h1 h2
```

```
*** Adding switches:
```

```
*** Creating network
```

```
*** Adding controller
```

```
*** Adding hosts:
```

```
h1 h2
```

```
*** Adding switches:
```

```
s1
```

```
*** Adding links:
```

```
(h1, s1) (h2, s1)
```

```
*** Configuring hosts
```

```
h1 h2
```

```
*** Starting controller
```

```
*** Starting 1 switches
```

```
s1
```

Display Information on Network

mininet> nodes

available nodes are:

c0 h1 h2 s1

IFCONFIG

mininet> h1 ifconfig -a

h1-eth0 Link encap:Ethernet HWaddr b6:3f:4f:8f:33:c3
inet addr:10.0.0.1 Bcast:10.255.255.255 Mask:255.0.0.0
inet6 addr: fe80::b43f:4fff:fe8f:33c3/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:5 errors:0 dropped:0 overruns:0 frame:0
TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:378 (378.0 B) TX bytes:468 (468.0 B)

lo Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:65536 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

mininet@mininet-vm: ~

File Edit View Search Terminal Help

```
[Group6@group6d ~]$ ssh -X mininet@192.168.186.181
mininet@192.168.186.181's password:
Welcome to Ubuntu 13.04 (GNU/Linux 3.8.0-19-generic i686)
```

```
* Documentation:  https://help.ubuntu.com/
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife
```

Zoom Out

```
New release '13.10' available.
Run 'do-release-upgrade' to upgrade to it.
```

```
Last login: Tue Apr 29 20:20:05 2014 from 192.168.186.1
```

```
mininet@mininet-vm:~$ sudo mn
```

```
*** Creating network
```

```
*** Adding controller
```

```
*** Adding hosts:
```

```
h1 h2
```

```
*** Adding switches:
```

```
s1
```

```
*** Adding links:
```

```
{h1, s1} {h2, s1}
```

```
*** Configuring hosts
```

```
h1 h2
```

```
*** Starting controller
```

```
*** Starting 1 switches
```

```
s1
```

```
*** Starting CLI:
```

```
mininet> nodes
```

```
available nodes are:
```

```
c0 h1 h2 s1
```

```
mininet> 
```

```
Activities Terminal Tue 15:23 Group 6
mininet@mininet-vm: ~
File Edit View Search Terminal Help
[Group6@group6d ~]$ ssh -X mininet@192.168.106.101
mininet@192.168.106.101's password:
Welcome to Ubuntu 13.04 (GNU/Linux 3.8.0-19-generic i686)

 * Documentation:  https://help.ubuntu.com/
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

New release '13.10' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Tue Apr 29 20:20:16 2014 from 192.168.106.1
mininet@mininet-vm:~$ sudo mn
*** Creating network
*** Adding controller
*** Adding hosts:
h1 h2
*** Adding switches:
s1
*** Adding links:
(h1, s1) (h2, s1)
*** Configuring hosts
h1 h2
*** Starting controller
*** Starting 1 switches
s1
*** Starting CLIs:
mininet> h1 ifconfig -a
h1-eth0  Link encap:Ethernet  HWaddr b6:3f:4f:8f:33:c3
        inet addr:10.0.0.1  Bcast:10.255.255.255  Mask:255.0.0.0
        inet6 addr: fe80::b43f:4fff:fe8f:33c3/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:4 errors:0 dropped:0 overruns:0 frame:0
        TX packets:5 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:396 (396.0 B)  TX bytes:396 (396.0 B)

lo       Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:65536  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

mininet>
```