```
test@ubuntu:~$ sudo apt install git
[sudo] password for test:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk
  gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 122 not upgraded.
Need to get 5,465 kB of archives.
After this operation, 38.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us.archive.ubuntu.com/ubuntu focal/main amd64 liberror-perl all 0.1
7029-1 [26.5 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 git-man all 1
:2.25.1-1ubuntu3.2 [884 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 git amd64 1:2
```

```
test@ubuntu:~$ git clone git://github.com/mininet/mininet.git
Cloning into 'mininet'...
remote: Enumerating objects: 10182, done.
remote: Counting objects: 100% (28/28), done.
remote: Compressing objects: 100% (19/19), done.
remote: Total 10182 (delta 9), reused 22 (delta 8), pack-reused 10154
Receiving objects: 100% (10182/10182), 3.22 MiB | 2.59 MiB/s, done.
Resolving deltas: 100% (6790/6790), done.
```

```
test@ubuntu:~$ cd mininet/
test@ubuntu:~/mininet$ ls
bin           custom  doc       INSTALL  Makefile  mnexec.c   setup.py
CONTRIBUTORS  debian  examples  LICENSE  mininet   README.md  util
test@ubuntu:~/mininet$ cd util/
test@ubuntu:~/mininet/util$ ls
build-ovs-packages.sh  install.sh   openflow-patches  versioncheck.py
clustersetup.sh        kbuild       sch_htb-ofbuf     vm
colorfilters           m            sysctl_addon
doxify.py              nox-patches  unpep8
test@ubuntu:~/mininet/util$ ls
build-ovs-packages.sh  install.sh   openflow-patches  versioncheck.py
clustersetup.sh        kbuild       sch_htb-ofbuf     vm
colorfilters           m            sysctl_addon
doxify.py              nox-patches  unpep8
test@ubuntu:~/mininet/util$ sudo ./install.sh
Detected Linux distribution: Ubuntu 20.04 focal amd64
sys.version_info(major=3, minor=8, micro=10, releaselevel='final', serial=0)
Detected Python (python3) version 3
Installing all packages except for -eix (doxypy, ivs, nox-classic)...
Install Mininet-compatible kernel if necessary
```

```
libtool: install: /usr/bin/install -c cbench /usr/local/bin/cbench
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/home/test/oflops/cbench'
make[1]: Leaving directory '/home/test/oflops/cbench'
Making install in doc
make[1]: Entering directory '/home/test/oflops/doc'
make[1]: Nothing to be done for 'install'.
make[1]: Leaving directory '/home/test/oflops/doc'
Enjoy Mininet!
```

```
test@ubuntu:~/mininet/util$ sudo ./install.sh -a^C
Detected Linux distribution: Ubuntu 20.04 focal amd64
sys.version_info(major=2, minor=7, micro=18, releaselevel='final', serial=0)
Detected Python (python2) version 2
Installing all packages except for -eix (doxypy, ivs, nox-classic)...
Install Mininet-compatible kernel if necessary
```

```
test@ubuntu:~/mininet/util$ 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
c0
*** Starting 1 switches
s1 ...
*** Starting CLI:
```

```
mininet> net
h1 h1-eth0:s1-eth1
h2 h2-eth0:s1-eth2
s1 lo:  s1-eth1:h1-eth0 s1-eth2:h2-eth0
c0
mininet>
```

```
test@ubuntu:~$ sudo mn --topo=tree,2,3
*** Creating network
*** Adding controller
*** Adding hosts:
h1 h2 h3 h4 h5 h6 h7 h8 h9
*** Adding switches:
s1 s2 s3 s4
*** Adding links:
(s1, s2) (s1, s3) (s1, s4) (s2, h1) (s2, h2) (s2, h3) (s3, h4) (s3, h5) (s3, h6)
 (s4, h7) (s4, h8) (s4, h9)
*** Configuring hosts
h1 h2 h3 h4 h5 h6 h7 h8 h9
*** Starting controller
c0
*** Starting 4 switches
s1 s2 s3 s4 ...
*** Starting CLI:
```

```
mininet> net
h1 h1-eth0:s2-eth1
h2 h2-eth0:s2-eth2
h3 h3-eth0:s2-eth3
h4 h4-eth0:s3-eth1
h5 h5-eth0:s3-eth2
h6 h6-eth0:s3-eth3
h7 h7-eth0:s4-eth1
h8 h8-eth0:s4-eth2
h9 h9-eth0:s4-eth3
s1 lo:  s1-eth1:s2-eth4 s1-eth2:s3-eth4 s1-eth3:s4-eth4
s2 lo:  s2-eth1:h1-eth0 s2-eth2:h2-eth0 s2-eth3:h3-eth0 s2-eth4:s1-eth1
s3 lo:  s3-eth1:h4-eth0 s3-eth2:h5-eth0 s3-eth3:h6-eth0 s3-eth4:s1-eth2
s4 lo:  s4-eth1:h7-eth0 s4-eth2:h8-eth0 s4-eth3:h9-eth0 s4-eth4:s1-eth3
c0
```