```
Last login: Tue Feb 19 09:55:21 on console
    Shefali-Emmanuels-MacBook-Pro-2018:∼ shefaliemmanuel$ ssh -i Desktop/emmanuel.pem ubuntu@172.17.64.234
   Sheral:-Emmanuels-MacBook-Pro-2018:~ Sheral:emmanuel$ ssn -1 Desktop/emmanuel.pem ubuntu@1/2.1/.64.234
Load key "Desktop/emmanuel.pem": invalid format
ubuntu@1/2.17.64.234: Permission denied (publickey).
Sherali-Emmanuels-MacBook-Pro-2018:~ sherali-Emmanuel$ Desktop/University\ of\ Tartu/Basics\ of\ Cloud\ Computing/Lab1/emmanuel.pem ubuntu@172.17.64.234
-bash: Desktop/University of Tartu/Basics of Cloud Computing/Lab1/emmanuel.pem: Permission denied
Sherali-Emmanuels-MacBook-Pro-2018:~ shefali-Emmanuel$ ssn -1 Desktop/University\ of\ Tartu/Basics\ of\ Cloud\ Computing/Lab1/emmanuel.pem ubuntu@172.17.64.234
Welcome to Ubuntu 18.04 LTS (GNU/Linux 4.15.0-22-generic x86_64)
       * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.

* Support: https://ubuntu.com/advantage
                                                                                                                                      nonical com
          System information as of Wed Feb 20 12:50:21 UTC 2019

      System load:
      0.08
      Processes:
      81

      Usage of /:
      9.9% of 9.5268
      Users logged in:
      0

      Memory usage:
      11%
      IP address for ens3:
      192.168.64.22

      Swap usage:
      0%

                 snap info' now shows the freshness of each channel.
Try 'snap info microk8s' for all the latest goodness
          Get cloud support with Ubuntu Advantage Cloud Guest:
                 http://www.ubuntu.com/business/services/cloud
   0 packages can be updated
   0 updates are security updates.
  The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
  Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.
   To run a command as administrator (user "root"), use "sudo <command>". See "man sudo\_root" for details.
 ubuntu@emmanuellab2:-$ sudo passwd ubuntu
Enter new UNIX password:
Retype new UNIX password:
Retype new UNIX password upasswd:
passwd: password updated successfully
ubuntu@emmanuellab2:-$ connection to 172.17.64.234 closed by remote host.
Connection to 172.17.64.234 closed.
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget
missing URL
Usage: wget [OPTION]... [URL]...
Usage: wget [OPTION]... [URL]...

Try 'wget --help' for more options.
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ ssh wget
ssh: Could not resolve hostname wget: nodename nor servname provided, or not known
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ ssh -i wget
Warning: Identity file wget not accessible: No such file or directory.
usage: ss [-46AaCfg6kRMngsTtVwxNy] [-B bind_interface]
[-b bind_address] [-c cipher_spec] [-D bind_address:]port]
[-l logi_nname] [-m acc_spec] [-0 ctl_cmd] [-l pks:1]
[-i identity_file] [-J [user@]host[:port]] [-L address]
[-l logi_nname] [-m acc_spec] [-0 ctl_cmd] [-o option] [-p port]
[-0 query_option] [-R address] [-S ctl_path] [-w host:port]
[-w local_tun[:remote_tun]] destination [command]
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget localhost
--2019-02-20 14:58:33 -- http://localhost/
Resolving localhost...:l, 127.0.0.1
Connecting to localhost!:121:80...failed: Connection refused.
Connecting to localhost!:121:80...failed: Connection refused.
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ (Ses index.html)
index.html: No such file or directory
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget
wget: missing URL
   wget: missing URL
Usage: wget [OPTION]... [URL]...
   Try `wget --help' for more options. Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget indec.html
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget indec.html
-2019-02-20 15:00:59-- http://indec.html/
Resolving indec.html... failed: nodename nor servname provided, or not known.
wget: unable to resolve host address 'indec.html'
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget index.html
-2019-02-20 15:01:07-- http://index.html/
Resolving index.html... failed: nodename nor servname provided, or not known.
wget: unable to resolve host address 'index.html'
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ ls
A-BProblem.zip Class6.zip Class6.zip
Applications Class1.zip Class6.zip
Applications (Parallels) Class1.zip Class6.zip
Apsignment1.zip Class2.zip Class8.zip
Assignment1.zip Class3.zip Creative Cloud
Assignment1Example.zip Class4.zip
Desktop
Assignment2Emmanuel.sip Class5.zip
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget
Usage: wget [OPTION]... [URL]...
                                                                                                                                                                                                                    Class6.zip
Class7.zip
Class8.zip
Class9.zip
Creative Cloud Files
Desktop
Documents
                                                                                                                                                                                                                                                                                                                              Downloads
Google Drive File Stream
ImageProcessing.java
Justimmind
LastClass.zip
Library
Movies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ValidOrInvalid.zip
VirtualBox VMs
eclipse-workspace
get-pip.py
homebrew
                                                                                                                                                                                                                                                                                                                                                                                                                                        Music
Parallels
Pictures
Public
Sites
Test2 Example.zip
Topsoil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    src
untitled104.iml
 Try 'wget --help' for more options.

Shefall-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget index.html
--2019-02-20 15:03:10-- http://index.html/
Resolving index.html.. failed: nodename nor servname provided, or not known.
wget: unable to resolve host address 'index.html'
Shefall-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ wget localhost
--2019-02-20 15:03:19-- http://localhost/
Resolving localhost.. ::1, 127.0.0.1
Connecting to localhost|:1|:80.. failed: Connection refused.
Connecting to localhost|:27.0.0.1|:80.. failed: Connection refused.
Shefall-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ sudo nano /var/www/html/index.html
Password:
```

```
IT 15 POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the ECDSA key sent by the remote host is
SHA256; J240MITypgEA6AniKQ11kWygVJp7m+ruxxwmHiG9hs.
Please contact your system administrator.
Add correct host key in /Users/shefaliemmanuel 1/.ssh/known_hosts to get rid of this message.
Offending ECDSA key in /Users/shefaliemmanuel 1/.ssh/known_hosts:4
ECDSA host key for 172.17.64.234 has changed and you have requested strict checking.
Host key verification failed.
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ rm .ssh/known_hosts
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ sm .csh/known_hosts
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ rm .csh/known_hosts
Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel$ sm .csh/known_hosts
The authenticity of host '172.17.64.234 (172.17.64.234)' can't be established.
ECDSA key fingerprint is SHA256:j240MHfrygEAAnitAQ11kWygU/p7m+rzwsmHiG9hs.
Are you sure you want to continue connecting (yes/no)? y
Please type 'yes' or 'no': yes
Warning: Permanently added '172.17.64.234' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.64 LTS (GNU/Linux 4.15.6-22-generic x86_64)
       IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
                Documentation: https://help.ubuntu.com
           * Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
              System information as of Wed Feb 20 13:23:17 UTC 2019

      System load:
      0.0
      Processes:
      85

      Usage of /:
      12.2% of 9.52GB
      Users logged in:
      0

      Wemory usage:
      12%
      IP address for ens3:
      192.168.64.37

      Swap usage:
      0%

                        snap info' now shows the freshness of each channel
ry 'snap info microk8s' for all the latest goodnes
              Get cloud support with Ubuntu Advantage Cloud Guest: http://www.ubuntu.com/business/services/cloud
    198 packages can be updated.
95 updates are security updates.
     Last login: Wed Feb 20 12:52:55 2019
   UbuntuBshefallemmanuelv2:-$ sudo apt update
Hit:1 http://security.ubuntu.com/ubuntu bionic-security InRelease
Hit:2 http://nova.clouds.archive.ubuntu.com/ubuntu bionic InRelease
Hit:3 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:4 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-backports InRelease
Hit2 http://mova.clouds.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit2 http://mova.clouds.archive.ubuntu.com/ubuntu bionic-backports InRelease
Reading package lists... 42%
Reading package lists... Done
Building dependency tree
Reading state information... Done
192 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@shefaltemanuelv2:-5 sud oa pt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
192 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@shefaltemanuelv2:-5 sud oa pt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
Reading package was automatically installed and is no longer required:

Use 'sudo apt autorenove' to remove it.

8 upgraded. 0 newly installed, 0 to remove and 192 not upgraded.

8 ubuntu@shefaltemanuelv2:-5 sudo nano /var/www/Intml/index.html

8 ubuntu@sh
     wC: command not found ubuntu@shefaliemmanuelv2:~$ cat /home/ubuntu/.ssh/authorized_keys | wc -l
    TI IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the ECDSA key sent by the remote host is
ShA256:ESPATA, ShA256:ESPA
          * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
              System information as of Wed Feb 20 13:53:45 UTC 2019
            System load: 0.05
                      'snap info' now shows the freshness of each channel.
Try 'snap info microk8s' for all the latest goodness.
              Get cloud support with Ubuntu Advantage Cloud Guest: http://www.ubuntu.com/business/services/cloud
```

Last login: Wed Feb 20 12:52:55 2019

snapshot:~\$ cat /home/ubuntu/.ssh/authorized\_keys

ssh-rsa AAAAB3NzaClyc2EAAAADAQABAAABAQDCCX71nc5Al9FPR7oAF9zrIDktkfXzxugY3VRiPsOlMY18i5xPgVXWY7161Afv9lNPRl3y8EFxpRJsc83VGWGQ0KVfZ5pHds5MK5ouB0GZuDsZvDE/xVSQ+138shwbu/2IGl0EjZHWSY1xC14AunvDU5tbpkKTeeU VekHVn1jTNG5uhNUT16Uufvx5Fc+11GK80bR7135FmkAJg6zPoZsn7Bc5bBcgyvOtthfJ1CHZE1tpJwtAYLJX+Ke8FMM5xXt5FuGMFh7YRq+1LxQLQMDPF6oqk75GHJ5MyX7cKJ5Gssh8bqvY5O4xt441aZ1nbW1dfpD57LAMg/T1xybpw1XQT Generated-by-Nova Ssh-rsa AAAAB3NzaClyc2EAAAADAQAGAAAAAAQACetxZpd5dp5AlX8bg7f18Fk7bGDMDdfyFgy+dR5T-pg47my8R0BU5056kc4TgyGGp2X0xWb0yd2Olm2xMm0vy1MeEISwz+H1KkupFePrc70VemJHxw80bC01cOLu1+9lnvAs6RPyj7mUF0-beVf1gez23htR8uf1SmbuBp fDyf1KFkZHmbVFknRBn3/C0jjR0T/bqeLQIDhJDreZ0mLr1AD2hNTrXBxnB85VDzXvBbpPyQk9Traq60bD2ltQ0e29wwDGHfEWfd3NpyxEmxzVmkAOTfZS7m33gaZPugaIgSwQ4+geg+xnTfs+F6vy+lWqEvyrc1Bw1PRQjNS0mDsjmGB+Wid Generated-by-Nova ubuntuw8shefalis-instance-from-a-snapshot:-\$ cat /home/ubuntu/.ssh/authorized\_keys | wc -l

ubuntu@shefalis-instance-from-a-snapshot:-\$ packet\_write\_wait: Connection to 172.17.64.234 port 22: Broken pipe Shefali-Emmanuels-MacBook-Pro-2018:~ shefaliemmanuel\$