```
Last login: Wed Feb 27 11:16:02 on console
Shefali-Emmanuels-MacBook-Pro-2018:- shefaliemmanuel$ ssh -i .desktop/emmanuel.pem ubuntu@172.17.64.239
Warning: Identity file .desktop/emmanuel.pem not accessible: No such file or directory.
The authenticity of host '172.17, 64.239 (12.17, 64.239)' can't be established.
ECDSA key fingerprint is SHA256:25EuCgolxyFnbINM3r9fLa3c7KXxOYt6csN+rrDkQqc.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.17, 64.239' (ECDSA) to the list of known hosts.
ubuntu@172.17.64.239: Permission denied (publickey).
Shefali-Emmanuels-MacBook-Pro-2018:- shefaliemmanuel$ chmod 400 emmanuel.pem
chmod: demmanuel.pem: No such file or directory
Shefali-Emmanuels-MacBook-Pro-2018:- shefaliemmanuel$ chmod 400 .desktop/emmanuel.pem
chmod: .desktop/emmanuel.pem: No such file or directory
Shefali-Emmanuels-MacBook-Pro-2018:- shefaliemmanuel$ chmod 400 .desktop/ emmanuel.pem
chmod: .desktop/: No such file or directory
Shefali-Emmanuels-MacBook-Pro-2018:- shefaliemmanuel$ chmod 400 Desktop/ emmanuel.pem
chmod: .desktop/: No such file or directory
Shefali-Emmanuels-MacBook-Pro-2018:- shefaliemmanuel$ chmod 400 Desktop/ emmanuel.pem
chmod: .desktop/: No such file or directory
Shefali-Emmanuels-MacBook-Pro-2018:- shefaliemmanuel$ she or besktop/emmanuel.pem
chmod: .desktop/: No such file or directory
Shefali-Emmanuels-MacBook-Pro-2018:- shefaliemmanuel$ she or besktop/emmanuel.pem
ubuntu@172.17.64.239
Welcome to Ubuntu 18.04 LTS (GNU/Linux 4.15.0-22-generic x86_64)
         * Documentation: https://help.ubuntu.com

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

* Support: https://ubuntu.com/advantage
           System information as of Wed Feb 27 12:02:04 UTC 2019

    System load:
    0.36
    Processes:
    87

    Usage of /:
    12.8% of 9.52GB
    Users logged in:
    0

    Memory usage:
    12%
    IP address for ens3:
    172.17.64.239

                   'snap info' now shows the freshness of each channel
Try '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
      ubuntu@shefaliemmanuel:~$ sudo passwd ubuntu
Enter new UNIX password:
   Options:
  Options:

-D name : define a name for use in <IfDefine name> directive

-d directory : specify an alternate initial ServerRoot

-f file : specify an alternate ServerConfigFile

-C "directive" : process directive before reading config files

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-e level : show statup errors to flevel (see LogLevel)

-F file : log startup errors to file

-v : show compile settings

-h : list available command line options (this page)

-l : list available comfiguration directives

-t -D DUMP_VHOSTS : show parsed whost settings

-t -D DUMP_RUN_CFG : show parsed run settings

-t -D DUMP_MODULES : show all included configuration files

-t -D DUMP_MODULES : show all included configuration files

-t -T -D DUMP_INCLUDES: show all included configuration files

-t : run syntax check for config files

-t : start without DocumentRoot(s) check

-X ubuntu@shefaliemmanuel:-$ var/www/html/index.html

-bash: /var/www/html/index.html: Permission denied

ubuntu@shefaliemmanuel:-$ delete /var/www/html/index.html
                                                                                     : define a name for use in <IfDefine name> directives
              -D name
   index.html
ubuntu@shefaliemmanuel:-$ delete /var/www/html/index.html
delete: command not found
      ubuntu@shefaliemmanuel:~$ ls
     index.html
    index.html
ubuntu@shefaliemmanuel:-$ /var/www/html/index.html -f
-bash: /var/www/html/index.html: Permission denied
ubuntu@shefaliemmanuel:-$ rm /var/www/html/index.html
rm: remove write-protected regular file 'var/www/html/index.html': yes
rm: cannot remove '/var/www/html/index.html': Permission denied
ubuntu@shefaliemmanuel:-$ sud rm /var/www/html/index.html
ubuntu@shefaliemmanuel:-$ sls
  index.html
ubuntu@shefaliemmanuel:-5 pwd
/home/ubuntu
ubuntu@shefaliemmanuel:-5 wget http://math.ut.ee/-jakovits/index.zip
--2019-02-27 12:09:19-- http://math.ut.ee/-jakovits/index.zip
Resolving math.ut.ee (math.ut.ee), ... 193. 40.37.95
Connecting to math.ut.ee (math.ut.ee)]193. 40.37.95
Connecting to math.ut.ee (math.ut.ee)]193. 40.37.95
HTTP request sent, awaiting response... 302 Found
Location: http://kodu.ut.ee/-jakovits/index.zip [following]
--2019-02-27 12:09:19-- http://kodu.ut.ee/-jakovits/index.zip
Resolving kodu.ut.ee (kodu.ut.ee)... 193.40.5.127, 2001:bb8:2002:500:250:56ff:feb4:0
Connecting to kodu.ut.ee (kodu.ut.ee)|193.40.5.127|80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1135 (1.1K) [application/zip]
Saving to: 'index.zip'
                                           .
efaliemmanuel:~$ pwd
    index.zip
                                                                                                                                                                                                    100%[======
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ======>1 1.11K --.-KB/s
    2019-02-27 12:09:19 (123 MB/s) - 'index.zip' saved [1135/1135]
    ubuntu@shefaliemmanuel:~$ unzip
    Command 'unzip' not found, but can be installed with:
    sudo apt install unzip
    ubuntu@shefaliemmanuel:∼$ sudo apt install unzip
Reading package lists... Done
Building dependency tree
```

```
New units Neate Information... Done
The following package was automatically installed and is no longer required:
grub-pc-bin
Use 'sudo apt autoremove' to remove it.
Suggested packages:
 Zip
The following NEW packages will be installed:
    unzip
    upgraded. I newly installed. 0 to remove and 192 not upgraded.
Need to get 167 kB of archives.
After this operation, 558 kB of additional disk space will be used.
Get: http://nova.clouds.archive.ubuntu.com/ubuntu bionic/main amd64 unzip amd64 6.0-21ubuntu1 [167 kB]
Fetched 167 kB in 0s (404 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 60645 files and directories currently installed.)
Preparing to unpack .../unzip 6.0-21ubuntu1_amd64.deb ...
Unpacking unzip (6.0-21ubuntu1) ...
Processing triggers for mime-supoport (3.60ubuntu1) ...
                      rip
e following NEW packages will be installed:
   Unpacking unzip (6.0-21ubuntuī) ...

Processing triggers for mime-support (3.60ubuntu1) ...

Setting up unzip (6.0-21ubuntu1) ...

Processing triggers for man-db (2.8.3-2) ...

ubuntu@shefaliemmanuel.-5 /var/www/html/data.txt
-bash: /var/www/html/data.txt: No such file or directory

ubuntu@shefaliemmanuel.-5 touch /var/www/html/data.txt

touch: cannot touch '/var/www/html/data.txt': Permission denied

ubuntu@shefaliemmanuel:-5 sud touch /var/www/html/data.txt

ubuntu@shefaliemmanuel:-5 ls

index html index zin

index html index zin
      index.html index.zip
ubuntu@shefaliemmanuel:~$ pmd
    Command 'pmd' not found, but there are 22 similar ones.
        ubuntu@shefaliemmanuel:~$ pwd
    /home/ubuntu
ubuntu@shefaliemmanuel:-$ ls
index.html index.zip
ubuntu@shefaliemmanuel:-$ sudo chown www-data /var/www/html/data.txt
ubuntu@shefaliemmanuel:-$ /var/www/html/index.php
-bash: /var/www/html/index.php: No such file or directory
ubuntu@shefaliemmanuel:-$ unzip index.zip
Archive: index.xip
   doubtivesheral temmanuet.-3 unzip index.21p
Archive: index.zhp
index.zhp
ubuntu@sheral temmanuel.-5 /var/www/html/index.php
-bash: /var/www/html/index.php: No such file or directory
ubuntu@sheral temmanuel!-5 ls
    uountugesneralremanuet:-3 sud on no /var/www/html/index.php ubuntugeshefalremanuel:-5 sudo on no /var/www/html/index.php ubuntugeshefalremanuel:-5 sudo on no /var/www/html/index.php ubuntugeshefalremanuel:-5 sudo op index.php /var/www/html/index.php ubuntugeshefalremanuel:-5 sudo no /var/www/html/index.php ubuntugeshefalremanuel:-5 sudo no /var/www/html/index.php
ubuntueshefaliemmanuel:-$ sudo nano /var/www/html/index.php
ubuntueshefaliemmanuel:-$ sudo ano /var/www/html/index.php
ubuntueshefaliemmanuel:-$ sudo ano /var/www/html/index.php
ubuntueshefaliemmanuel:-$ sudo ano /var/www/html/index.php
ubuntueshefaliemmanuel:-$ sudo apt install apache2 php libapache2-mod-php
Reading package lists... Done
Building dependency tree
Reading state information... Done
apache2 is already the newest version (2.4.29-lubuntu4.5).
The following package was automatically installed and is no longer required:
grub-pc-bin
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
libapache2-mod-php7.2 libsodium23 php-common php7.2 php7.2-cli php7.2-common php7.2-json php7.2-opcache php7.2-readline
Suggested packages:
php-pear
php-pear
The following NEW packages will be installed:
    libapache2-mod-php libapache2-mod-php7.2 libsodium23 php php-common php7.2 php7.2-cli php7.2-common php7.2-json php7.2-opcache php7.2-readline
    upgraded. Il newly installed. 0 to remove and 192 not upgraded.

Need to get 4099 kB of archives.
After this operation, 17.5 MB of additional disk space will be used.

Do you want to continue? [Y/n] y
Get:1 http://nova.clouds.archive.ubuntu.com/ubuntu bionic/main amd64 php7.2-common amd64 7.2.15-0ubuntu0.18.04.1 [882 kB]
Get:2 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-common amd64 7.2.15-0ubuntu0.18.04.1 [18.8 kB]
Get:3 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-opcache amd64 7.2.15-0ubuntu0.18.04.1 [18.5 kB]
Get:3 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-opcache amd64 7.2.15-0ubuntu0.18.04.1 [18.5 kB]
Get:5 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-opcache amd64 7.2.15-0ubuntu0.18.04.1 [18.5 kB]
Get:5 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-opcache amd64 7.2.15-0ubuntu0.18.04.1 [18.5 kB]
Get:6 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-cli amd64 7.2.15-0ubuntu0.18.04.1 [19.1 kB]
Get:7 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-cli amd64 7.2.15-0ubuntu0.18.04.1 [19.4 kB]
Get:8 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2-cli amd64 7.2.15-0ubuntu0.18.04.1 [19.9 kB]
Get:9 http://nova.clouds.archive.ubuntu.com/ubuntu bionic/main amd64 http3.2 https://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2 amd64 7.2.15-0ubuntu0.18.04.1 [19.9 kB]
Get:10 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-updates/main amd64 php7.2 amd64 7.2.15-0ubuntu0.18.04.1 [19.9 kB]
Get:10 http://nova.clouds.archive.ubuntu.com/ubuntu bionic-main amd64 php7.2 amd64 7.2.15-0ubuntu0.18.04.1 [19.9 kB]
Get:10 http://nova.clouds.archive.ub
    php-pear
The following NEW packages will be installed:
   Unpacking php-common (1:60ubuntul) ...
Selecting previously unselected package php7.2-common.
Preparing to unpack .../01-php7.2-common 7.2.15-0ubuntu0.18.04.1_amd64.deb ...
Unpacking php7.2-common (7.2.15-0ubuntu0.18.04.1) ...
Selecting previously unselected package php7.2-json.
Preparing to unpack .../02-php7.2-json.7.2.15-0ubuntu0.18.04.1_amd64.deb ...
Unpacking php7.2-json (7.2.15-0ubuntu0.18.04.1) ...
 Preparing to unpack .../02-php7.2-json_7.2.15-0ubuntu0.18.04.1_amd64.deb ...
Unpacking php7.2-json_7.2.15-0ubuntu0.18.04.1] ...
Selecting previously unselected package php7.2-opcache.
Preparing to unpack .../03-php7.2-opcache / 7.2.15-0ubuntu0.18.04.1_amd64.deb ...
Unpacking php7.2-opcache (7.2.15-0ubuntu0.18.04.1) ...
Selecting previously unselected package php7.2-readline.
Preparing to unpack .../04-php7.2-readline.
Preparing to unpack .../04-php7.2-readline.
Preparing to unpack .../04-php7.2-readline.
Unpacking php7.2-readline (7.2.15-0ubuntu0.18.04.1) ...
Selecting previously unselected package libsodium23:amd64.
Preparing to unpack .../05-ph1.3-amd64.16.2) ...
Selecting previously unselected package php7.2-cl1.
Preparing to unpack .../06-php7.2-cl17.2.15-0ubuntu0.18.04.1_amd64.deb ...
Unpacking php7.2-cl1 (7.2.15-0ubuntu0.18.04.1) ...
Selecting previously unselected package libapache2-mod-php7.2.
Preparing to unpack .../07-libapache2-mod-php7.2.7.2.15-0ubuntu0.18.04.1] ...
Selecting previously unselected package libapache2-mod-php7.2.
Preparing to unpack .../08-libapache2-mod-php7.2.7.2.15-0ubuntu0.18.04.1] ...
Selecting previously unselected package libapache2-mod-php.
Preparing to unpack .../08-libapache2-mod-php1.3-27.2-60ubuntu1.3.04.1 ...
Selecting previously unselected package libapache2-mod-php.
Preparing to unpack .../08-libapache2-mod-php1.3-27.2-60ubuntu1.3.04.1 ...
Selecting previously unselected package php7.2.
Preparing to unpack .../09-php7.2.7.2.15-0ubuntu0.18.04.1. ...
Selecting previously unselected package php.
Preparing to unpack .../09-php7.2.7.2.15-0ubuntu1.3.04.1 ...
Selecting previously unselected package php.
Preparing to unpack .../18-ph0.18-37.2-760ubuntu1.3.1 deb ...
Selecting previously unselected package php.
Preparing to unpack .../18-ph0.18-37.2-760ubuntu1.3.1 deb ...
Selecting previously unselected package php.
Preparing to unpack .../18-ph0.18-37.2-760ubuntu1.3.1 deb ...
   Unpacking php7.2 (7.2.15-0bubntu0.18.04.1) ...
Selecting previously unselected package php.
Preparing to unpack .../10-php 1%3a7.2+60bubntu1_all.deb ...
Unpacking php (1:7.2-66bubntu1) ...
Setting up libsodium23:amd64 (1.0.16-2) ...
Processing triggers for libc-bin (2.27-3bubntu1) ...
Setting up php-common (1:60bubntu1) ...
Created symlink /etc/systemd/system/timers.target.wants/phpsessionclean.timer - /lib/systemd/system/phpsessionclean.timer.
Processing triggers for man-db (2.8.3-2) ...
Setting up php7.2-common (7.2.15-0bubntu0.18.04.1) ...
   Creating config file /etc/php/7.2/mods-available/calendar.ini with new version
   Creating config file /etc/php/7.2/mods-available/ctype.ini with new version
   Creating config file /etc/php/7.2/mods-available/exif.ini with new version
   Creating config file /etc/php/7.2/mods-available/fileinfo.ini with new version
```

Reading state information... Done

```
Creating config file /etc/php/7.2/mods-available/ftp.ini with new version
 Creating config file /etc/php/7.2/mods-available/gettext.ini with new version
 Creating config file /etc/php/7.2/mods-available/iconv.ini with new version
 Creating config file /etc/php/7.2/mods-available/pdo.ini with new version
 Creating config file /etc/php/7.2/mods-available/phar.ini with new version
 Creating config file /etc/php/7.2/mods-available/posix.ini with new version
 Creating config file /etc/php/7.2/mods-available/shmop.ini with new version
 Creating config file /etc/php/7.2/mods-available/sockets.ini with new version
 Creating config file /etc/php/7.2/mods-available/sysvmsg.ini with new version
 Creating config file /etc/php/7.2/mods-available/sysvsem.ini with new version
 Creating config file /etc/php/7.2/mods-available/sysvshm.ini with new version
Creating config file /etc/php/7.2/mods-available/tokenizer.ini with new version Setting up php7.2-readline (7.2.15-0ubuntu0.18.04.1) \dots
 Creating config file /etc/php/7.2/mods-available/readline.ini with new version Setting up php7.2-json (7.2.15-0ubuntu0.18.04.1) \dots
Creating config file /etc/php/7.2/mods-available/json.ini with new version Setting up php7.2-opcache (7.2.15-0ubuntu0.18.04.1) \dots
Creating config file /etc/php/7.2/mods-available/opcache.ini with new version
Setting up php7.2-cli (7.2.15-0ubuntu0.18.04.1) ...
update-alternatives: using /usr/bin/php7.2 to provide /usr/bin/php (php) in auto mode
update-alternatives: using /usr/bin/phar.phar (phar) in auto mode
update-alternatives: using /usr/bin/phar.phar?2 to provide /usr/bin/phar.phar (phar.phar) in auto mode
 Creating config file /etc/php/7.2/cli/php.ini with new version Setting up libapache2-mod-php7.2 (7.2.15-0ubuntu0.18.04.1) ...
Creating up Itbapache2-mod-php7.2 (7.2.15-BubuntuB.18.84.1) ...

Creating config file /etc/php7.2/apache2/php.ini with new version Module mpm_event disabled.

Enabling module mpm_prefork.

apache2_switch_mpm Switch to prefork

apache2_switch_mpm Switch to prefork

apache2_invoke: Enable module php7.2

Setting up libapache2-mod-php (1.7.2+6BubuntuB) ...

Setting up php7.2 (7.2.15-BubuntuB.18.04.1) ...

Setting up php (1:7.2+6BubuntuB) ...

Setting
                                                                                                                                                                                                        TIME_WAIT
TIME_WAIT
TIME_WAIT
TIME_WAIT
TIME_WAIT
TIME_WAIT
TIME_WAIT
```