```
Last login: Mon Mar 20 16:13:52 on ttys000

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
cbassem-mini2-0919:~ crowdnetsuser$ unzip /Users/crowdnetsuser/Downloads/ngrok-v3-stable-darwin-amd64.zip
Archive:  /Users/crowdnetsuser/Downloads/ngrok-v3-stable-darwin-amd64.zip
  inflating: ngrok
cbassem-mini2-0919:~ crowdnetsuser$ ngrok config add-authtoken 2NkAUrWRcRzuIpTRXdCyD1eLpIl_2qYs12mdX1AMVUY
DfSGxi
-bash: ngrok: command not found
cbassem-mini2-0919:~ crowdnetsuser$ brew cask install ngrok
Error: `brew cask` is no longer a `brew` command. Use `brew <command> --cask` instead.
cbassem-mini2-0919:~ crowdnetsuser$ brew install --cask ngrok
Running `brew update --preinstall`...
==> Downloading https://ghcr.io/v2/homebrew/portable-ruby/portable-ruby/blobs/sha256:1f50bf80583bd436c9542
d4fa5ad47df0ef0f0bea22ae710c4f04c42d7560bca
######################################################################## 100.0%
==> Pouring portable-ruby-2.6.8_1.el_capitan.bottle.tar.gz
==> Downloading https://formulae.brew.sh/api/formula.jws.json
######################################################################## 100.0%
==> Downloading https://formulae.brew.sh/api/cask.jws.json
######################################################################## 100.0%
==> Auto-updated Homebrew!
Updated 1 tap (adoptopenjdk/openjdk).

You have 20 outdated formulae installed.
You can upgrade them with brew upgrade
or list them with brew outdated.

==> Downloading https://bin.equinox.io/a/hoFbK2Q2jz3/ngrok-v3-3.2.2-stable-darwi
######################################################################## 100.0%
==> Installing Cask ngrok
==> Linking Binary 'ngrok' to '/usr/local/bin/ngrok'
🍺  ngrok was successfully installed!
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 4040
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ sql
-bash: sql: command not found
cbassem-mini2-0919:~ crowdnetsuser$ mysql
-bash: mysql: command not found
cbassem-mini2-0919:~ crowdnetsuser$ ssh -i key crowdnets@cs.wellesley.edu
Warning: Identity file key not accessible: No such file or directory.
crowdnets@cs.wellesley.edu's password:

cbassem-mini2-0919:~ crowdnetsuser$ cd ..
cbassem-mini2-0919:Users crowdnetsuser$ ls\
>
Shared          cbassem         crowdnetsuser   emaccess        jamftemp
cbassem-mini2-0919:Users crowdnetsuser$ ls
Shared          cbassem         crowdnetsuser   emaccess        jamftemp
cbassem-mini2-0919:Users crowdnetsuser$ cd crowdnetsuser
cbassem-mini2-0919:~ crowdnetsuser$ ls
Applications    Documents       Library         Music           Public          ngrok
Desktop         Downloads       Movies          Pictures        get-pip.py      use
cbassem-mini2-0919:~ crowdnetsuser$ cd Documents
cbassem-mini2-0919:Documents crowdnetsuser$ ls
Old code        settings        snapngo
cbassem-mini2-0919:Documents crowdnetsuser$ cd settings
cbassem-mini2-0919:settings crowdnetsuser$ ssh -i key crowdnets@cs.wellesley.edu
Warning: Identity file key not accessible: No such file or directory.
crowdnets@cs.wellesley.edu's password:
Permission denied, please try again.
crowdnets@cs.wellesley.edu's password:
```

```
cbassem-mini2-0919:settings crowdnetsuser$ ssh -i key crowdnets-ssh crowdnets@cs.wellesley.edu
Warning: Identity file key not accessible: No such file or directory.
ssh: Could not resolve hostname crowdnets-ssh: nodename nor servname provided, or not known
cbassem-mini2-0919:settings crowdnetsuser$ cd ..
cbassem-mini2-0919:Documents crowdnetsuser$ cd ..
cbassem-mini2-0919:~ crowdnetsuser$ history
     1  pythn -V
     2  python -V
     3  python3 - V
     4  python3 - V
     5  pip3 install python3
     6  python get-pip.py
     7  /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
     8  python
     9  python
    10  python3
    11  python3
    12  pip install numpy
    13  curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py
    14  python get-pip.py
    15  python3 get-pip.py
    16  pip3
    17  pip
    18  pip3 install numpy
    19  pip3 install scipy
    20  pip3 install matplotlib
    21  pip3 install pandas
    22  /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
    23  brew install python3
    24  pip3
    25  python -V
    26  python3 -v
    27  /Users/crowdnetsuser/Downloads/ngrok ; exit;
    28  exit
    29  gh repo clone anstrong/Snap-n-Go
    30  git version
    31  git version
    32  clear
    33  npm
    34  node-v
    35  node -v
    36  node -v
    37  npm -v
    38  brew install gh
    39  npm install --global expo-cli
    40  pwd
    41  sudo npm install --global expo-cli
    42  brew install --cask adoptopenjdk/openjdk/adoptopenjdk8
    43  npm install --global yarn
    44  sudo npm install --global yarn
    45  git version
    46  gh repo clone anstrong/Snap-n-Go
    47  brew install gh
    48  brew list
    49  clear
    50  sudo port install gh
    51  brew
    52  /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
    53  git -C /usr/local/Homebrew/Library/Taps/homebrew/homebrew-core fetch --unshallow
    54  brew install watchman
    55  clear
    56  npx react-native log-ios
    57  react-native --help
    58  react-native
    59  npx react-native
    60  npx react-native log-ios
    61  clear
    62  ssh-keygen
    63  exit
```

```
    64  ssh crowdnets@cs.wellesley.edu
    65  chmod 400 Documents/settings/crowdnets-ssh
    66  ssh crowdnets@cs.wellesley.edu
    67  ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh
    68  ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh crowdnets@cs.wellesley.edu
    69  exit
    70  ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh crowdnets@cs.wellesley.edu
    71  exit
    72  unzip /Users/crowdnetsuser/Downloads/ngrok-v3-stable-darwin-amd64.zip
    73  ngrok config add-authtoken 2NkAUrWRcRzuIpTRXdCyD1eLpIl_2qYs12mdX1AMVUYDfSGxi
    74  brew cask install ngrok
    75  brew install --cask ngrok
    76  ngrok http 5000
    77  ngrok http 5000
    78  ngrok http 5000
    79  ngrok http 4040
    80  ngrok http 5000
    81  ngrok http 5000
    82  sql
    83  mysql
    84  ssh -i key crowdnets@cs.wellesley.edu
    85  cd ..
    86  ls
    87  ls
    88  cd crowdnetsuser
    89  ls
    90  cd Documents
    91  ls
    92  cd settings
    93  ssh -i key crowdnets@cs.wellesley.edu
    94  ssh -i key crowdnets-ssh crowdnets@cs.wellesley.edu
    95  cd ..
    96  cd ..
    97  history
cbassem-mini2-0919:~ crowdnetsuser$ ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh crowdnets
@cs.wellesley.edu
Last failed login: Mon Apr 10 16:37:34 EDT 2023 from 10.155.13.220 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Tue Mar 21 11:04:27 2023
This is the new virtual server running CentOS 7
[crowdnets@tempest ~] mysql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3220
Server version: 5.5.68-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [crowdnets_db]> show tables;
+-----------------------+
| Tables_in_crowdnets_db |
+-----------------------+
| test_table            |
+-----------------------+
1 row in set (0.00 sec)

MariaDB [crowdnets_db]> exit
Bye
[crowdnets@tempest ~] logout
Connection to cs.wellesley.edu closed.
cbassem-mini2-0919:~ crowdnetsuser$ cat /Users/crowdnetsuser/Documents/settings/crowdnets-ssh | pbcopy
cbassem-mini2-0919:~ crowdnetsuser$ pbcopy < -----BEGIN OPENSSH PRIVATE KEY-----
3b3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAABlwAAAdzc2gtcn
NhAAAAAwEAAQAAAYEAzU3CqQDb1ioS50iRgxKY1laVfG5+RVsbs7ZvGtjpM5VZyAV9UGfW
Z3+z+IRGElD8ZRcmccOg0pwq7Jf5vdSNRdxTFGAfqaIgo7IH+8LfcWyiYs1DdUyQlLTpb+
```

RpWLlzQub4dwaHwD3j/2tf+5ZQHj4IRRDnz2/Xp4jrbtwJbcCAiRh0zbXQKAsiOyH7DeN6
bJK6bU5gNTHKEngkY1qGmPym9+LSrJNJj0WQcZ+HXwvO5TG1LBqip60SYao0AMJJjMkKXm
5pDtYz6sbAj32PPqFFTmI0x9d2XAuDnsYBgRCn1W6MKfQa7grGuMLqgjaoxJUYFqJbkUCF
tt2CJxyyN/dUJLYJ+0QQeY89sRUB2HcikQTa+9Ru/MIzlH4ICIhzczvr+hDZGlzc6Dmjgk
5aGRZvOgL7vJor+meigh/nSIZ/H5BElyXiFodN1XI8pxA/PdPUQjT7rifbMqFaYk1Fuzzw
KBMdzrlOYuVRW178HfWoA+vBFiKx+URlRpkdeHgDAAAFmLMm862zJvOtAAAAB3NzaC1yc2
EAAAGBAM1NwqkA29YqEudIkYMSmNZWlXxufkVbG7O2bxrY6TOVWcgFfVBn1md/s/iERhJQ
/GUXJnHDoNKcKuyX+b3UjUXcUxRgH6miIKOyB/vC33FsomLNQ3VMkJS06W/kaVi5c0Lm+H
cGh8A94/9rX/uWUB4+CEUQ589v16eI627cCW3AgIkYdM210CgLIjsh+w3jemySum1OYDUx
yhJ4JGNahpj8pvfi0qyTSY9FkHGfh18LzuUxtSwaoqetEmGqNADCSYzJCl5uaQ7WM+rGwI
99jz6hRU5iNMfXdlwLg57GAYEQp9VujCn0Gu4KxrjC6oI2qMSV-bash: -----BEGIN: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ b3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAABlwAAAAdzc2gtcn
-bash: b3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAABlwAAAAdzc2gtcn: command not found
cbassem-mini2-0919:~ crowdnetsuser$ NhAAAAAwEAAQAAAYEAzU3CqQDb1ioS50iRgxKY1laVfG5+RVsbs7ZvGtjpM5VZyAV9UGfW
-bash: NhAAAAAwEAAQAAAYEAzU3CqQDb1ioS50iRgxKY1laVfG5+RVsbs7ZvGtjpM5VZyAV9UGfW: command not found
cbassem-mini2-0919:~ crowdnetsuser$ Z3+z+IRGElD8ZRcmccOg0pwq7Jf5vdSNRdxTFGAfqaIgo7IH+8LfcWyiYs1DdUyQlLTpb+
-bash: Z3+z+IRGElD8ZRcmccOg0pwq7Jf5vdSNRdxTFGAfqaIgo7IH+8LfcWyiYs1DdUyQlLTpb+: command not found
cbassem-mini2-0919:~ crowdnetsuser$ RpWLlzQub4dwaHwD3j/2tf+5ZQHj4IRRDnz2/Xp4jrbtwJbcCAiRh0zbXQKAsiOyH7DeN6
-bash: RpWLlzQub4dwaHwD3j/2tf+5ZQHj4IRRDnz2/Xp4jrbtwJbcCAiRh0zbXQKAsiOyH7DeN6: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ bJK6bU5gNTHKEngkY1qGmPym9+LSrJNJj0WQcZ+HXwvO5TG1LBqip60SYao0AMJJjMkKXm
-bash: bJK6bU5gNTHKEngkY1qGmPym9+LSrJNJj0WQcZ+HXwvO5TG1LBqip60SYao0AMJJjMkKXm: command not found
cbassem-mini2-0919:~ crowdnetsuser$ 5pDtYz6sbAj32PPqFFTmI0x9d2XAuDnsYBgRCn1W6MKfQa7grGuMLqgjaoxJUYFqJbkUCF
-bash: 5pDtYz6sbAj32PPqFFTmI0x9d2XAuDnsYBgRCn1W6MKfQa7grGuMLqgjaoxJUYFqJbkUCF: command not found
cbassem-mini2-0919:~ crowdnetsuser$ tt2CJxyyN/dUJLYJ+0QQeY89sRUB2HcikQTa+9Ru/MIzlH4ICIhzczvr+hDZGlzc6Dmjgk
-bash: tt2CJxyyN/dUJLYJ+0QQeY89sRUB2HcikQTa+9Ru/MIzlH4ICIhzczvr+hDZGlzc6Dmjgk: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ 5aGRZvOgL7vJor+meigh/nSIZ/H5BElyXiFodN1XI8pxA/PdPUQjT7rifbMqFaYk1Fuzzw
-bash: 5aGRZvOgL7vJor+meigh/nSIZ/H5BElyXiFodN1XI8pxA/PdPUQjT7rifbMqFaYk1Fuzzw: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ KBMdzrlOYuVRW178HfWoA+vBFiKx+URlRpkdeHgDAAAFmLMm862zJvOtAAAAB3NzaC1yc2
-bash: KBMdzrlOYuVRW178HfWoA+vBFiKx+URlRpkdeHgDAAAFmLMm862zJvOtAAAAB3NzaC1yc2: command not found
cbassem-mini2-0919:~ crowdnetsuser$ EAAAGBAM1NwqkA29YqEudIkYMSmNZWlXxufkVbG7O2bxrY6TOVWcgFfVBn1md/s/iERhJQ
-bash: EAAAGBAM1NwqkA29YqEudIkYMSmNZWlXxufkVbG7O2bxrY6TOVWcgFfVBn1md/s/iERhJQ: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ /GUXJnHDoNKcKuyX+b3UjUXcUxRgH6miIKOyB/vC33FsomLNQ3VMkJS06W/kaVi5c0Lm+H
-bash: /GUXJnHDoNKcKuyX+b3UjUXcUxRgH6miIKOyB/vC33FsomLNQ3VMkJS06W/kaVi5c0Lm+H: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ cGh8A94/9rX/uWUB4+CEUQ589v16eI627cCW3AgIkYdM210CgLIjsh+w3jemySum1OYDUx
-bash: cGh8A94/9rX/uWUB4+CEUQ589v16eI627cCW3AgIkYdM210CgLIjsh+w3jemySum1OYDUx: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ yhJ4JGNahpj8pvfi0qyTSY9FkHGfh18LzuUxtSwaoqetEmGqNADCSYzJCl5uaQ7WM+rGwI
-bash: yhJ4JGNahpj8pvfi0qyTSY9FkHGfh18LzuUxtSwaoqetEmGqNADCSYzJCl5uaQ7WM+rGwI: command not found
cbassem-mini2-0919:~ crowdnetsuser$ 99jz6hRU5iNMfXdlwLg57GAYEQp9VujCn0Gu4KxrjC6oI2qMSVGBaiW5FAhbbdgiccsjf3
CVCS2CftEEHmPPbEVAdh3IpEE2vvUbvzCM5R+CAiIc3M76/oQ2Rpc3Og5o4JOWhkWbzoC+7
yaK/pnooIf50iGfx+QRJcl4haHTdVyPKcQPz3T1EI0+64n2zKhWmJNRbs88CgTHc65TmLl
UVte/B31qAPrwRYisflEZUaZHXh4AwAAAMBAAEAAAGBAI1OnFEemjFKPECcnisNPc0pQz
KmCptKHkMPqmFcMwaiIW2e+aXCEryiFQlUYbZxr4cU7A0ZjTPo8VJvOCIEjkgrYbOAhcqI
INcKzpvmgUzcbNh8V5YA4PK5ooK1QB0lZ8QAnbuu7vjOoINJMINF7lcicya2gBcy78gMYZ
+oK4UzHkU+ZAbCwUcOgr0Yomfozna0d0SM0YNLhb44mzMXN9VM8M9le4P0zIikZMsP9mjh
A8KU+BInMxUd9qzqLWjoT+MOvrVBks4cx3zgGqVzIXJoelwSTqWFtQl5X5LO+JGMbqnpV5
WKhhJJQcReXmNhHisBtR+nw0IlxSZ8gmi5XDay+/zBydaE/Lvq6+uVsi8sWW2WUbREJXpS
QegDceny3XpQnsPngrQOKs+z+F3Ahn71ZFIt65sxcsQJJvCnCdB312L4HGLKzjCBC08Mm5
Mbbb2uWzyYM9gW1LnUvmvP1fNUcae5U8+UW5FsqCteL2-bash: 99jz6hRU5iNMfXdlwLg57GAYEQp9VujCn0Gu4KxrjC6oI2qMSVGBaiW
5FAhbbdgiccsjf3: command not found
cbassem-mini2-0919:~ crowdnetsuser$ VCS2CftEEHmPPbEVAdh3IpEE2vvUbvzCM5R+CAiIc3M76/oQ2Rpc3Og5o4JOWhkWbzoC+7
-bash: VCS2CftEEHmPPbEVAdh3IpEE2vvUbvzCM5R+CAiIc3M76/oQ2Rpc3Og5o4JOWhkWbzoC+7: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ yaK/pnooIf50iGfx+QRJcl4haHTdVyPKcQPz3T1EI0+64n2zKhWmJNRbs88CgTHc65TmLl
-bash: yaK/pnooIf50iGfx+QRJcl4haHTdVyPKcQPz3T1EI0+64n2zKhWmJNRbs88CgTHc65TmLl: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ UVte/B31qAPrwRYisflEZUaZHXh4AwAAAMBAAEAAAGBAI1OnFEemjFKPECcnisNPc0pQz
-bash: UVte/B31qAPrwRYisflEZUaZHXh4AwAAAMBAAEAAAGBAI1OnFEemjFKPECcnisNPc0pQz: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ KmCptKHkMPqmFcMwaiIW2e+aXCEryiFQlUYbZxr4cU7A0ZjTPo8VJvOCIEjkgrYbOAhcqI
-bash: KmCptKHkMPqmFcMwaiIW2e+aXCEryiFQlUYbZxr4cU7A0ZjTPo8VJvOCIEjkgrYbOAhcqI: command not found
cbassem-mini2-0919:~ crowdnetsuser$ INcKzpvmgUzcbNh8V5YA4PK5ooK1QB0lZ8QAnbuu7vjOoINJMINF7lcicya2gBcy78gMYZ
-bash: INcKzpvmgUzcbNh8V5YA4PK5ooK1QB0lZ8QAnbuu7vjOoINJMINF7lcicya2gBcy78gMYZ: command not found
cbassem-mini2-0919:~ crowdnetsuser$ +oK4UzHkU+ZAbCwUcOgr0Yomfozna0d0SM0YNLhb44mzMXN9VM8M9le4P0zIikZMsP9mjh
-bash: +oK4UzHkU+ZAbCwUcOgr0Yomfozna0d0SM0YNLhb44mzMXN9VM8M9le4P0zIikZMsP9mjh: command not found
cbassem-mini2-0919:~ crowdnetsuser$ A8KU+BInMxUd9qzqLWjoT+MOvrVBks4cx3zgGqVzIXJoelwSTqWFtQl5X5LO+JGMbqnpV5
-bash: A8KU+BInMxUd9qzqLWjoT+MOvrVBks4cx3zgGqVzIXJoelwSTqWFtQl5X5LO+JGMbqnpV5: command not found
cbassem-mini2-0919:~ crowdnetsuser$ WKhhJJQcReXmNhHisBtR+nw0IlxSZ8gmi5XDay+/zBydaE/Lvq6+uVsi8sWW2WUbREJXpS
-bash: WKhhJJQcReXmNhHisBtR+nw0IlxSZ8gmi5XDay+/zBydaE/Lvq6+uVsi8sWW2WUbREJXpS: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ QegDceny3XpQnsPngrQOKs+z+F3Ahn71ZFIt65sxcsQJJvCnCdB312L4HGLKzjCBC08Mm5
-bash: QegDceny3XpQnsPngrQOKs+z+F3Ahn71ZFIt65sxcsQJJvCnCdB312L4HGLKzjCBC08Mm5: command not found
cbassem-mini2-0919:~ crowdnetsuser$ Mbbb2uWzyYM9gW1LnUvmvP1fNUcae5U8+UW5FsqCteL21I0qt9CjLthxdOnlW8nfbU4QAA
-bash: Mbbb2uWzyYM9gW1LnUvmvP1fNUcae5U8+UW5FsqCteL21I0qt9CjLthxdOnlW8nfbU4QAA: command not found

```
cbassem-mini2-0919:~ crowdnetsuser$ AMEAmxD70Vb0TEw4ATiB0O+UzHfPtXUj+1IqY7UlYQAcsmlu93wh+mAelszlDOVIFuZt/W
-bash: AMEAmxD70Vb0TEw4ATiB0O+UzHfPtXUj+1IqY7UlYQAcsmlu93wh+mAelszlDOVIFuZt/W: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ dIiky+p+itSk7/c9Rz69fjlFJfGahcMypI+jq8JxAbraZrtnMqKxyS9ojocpN7yqIN3882
-bash: dIiky+p+itSk7/c9Rz69fjlFJfGahcMypI+jq8JxAbraZrtnMqKxyS9ojocpN7yqIN3882: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ 9MW1jaTTXSy0C2S08Sa8UOV+1b4PQWFkAjmLdbIbESirBYbSIZbIFOk4G6I9GIQbpji0uf
-bash: 9MW1jaTTXSy0C2S08Sa8UOV+1b4PQWFkAjmLdbIbESirBYbSIZbIFOk4G6I9GIQbpji0uf: command not found
cbassem-mini2-0919:~ crowdnetsuser$ 9cJH0crsQF2P53JR6yDF5Yh9m7IfzKk8BalmN2pe/fs1ydZD+VAAAAwQD12VStKMHE573W
-bash: 9cJH0crsQF2P53JR6yDF5Yh9m7IfzKk8BalmN2pe/fs1ydZD+VAAAAwQD12VStKMHE573W: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ m+ZyCJKJ8RaR1JT9A8Mfr7uslvmgnKh80IbYOievR7BkVYbAKiIopb/u/rGJY8KUkh5Byi
-bash: m+ZyCJKJ8RaR1JT9A8Mfr7uslvmgnKh80IbYOievR7BkVYbAKiIopb/u/rGJY8KUkh5Byi: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ iSOxz5UiSctjl/HOlppiFVnB4YP6djFL/OpJtQuD3Ncd8HUINvOYdLtfCf0tpq0W4W1uDx
-bash: iSOxz5UiSctjl/HOlppiFVnB4YP6djFL/OpJtQuD3Ncd8HUINvOYdLtfCf0tpq0W4W1uDx: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ y5oiHTLIydZwF4sJz28Vn/3oohPoMx/z2Pdg/5qmOaXJq5Ste2F+USQg5omGhCT+4b1ki3
-bash: y5oiHTLIydZwF4sJz28Vn/3oohPoMx/z2Pdg/5qmOaXJq5Ste2F+USQg5omGhCT+4b1ki3: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ D3B4wKN++lE7iAcFxidcOIUzGBeTkKfacAAADBANXH2/06cFTOwu9qqt2FSvKbFsLWbw3W
-bash: D3B4wKN++lE7iAcFxidcOIUzGBeTkKfacAAADBANXH2/06cFTOwu9qqt2FSvKbFsLWbw3W: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ qNIUxCGXgTA4EL6c99GFfX13WyxEsZcOT3eumaPDhRuhD/nDfxt9DS1VUanBy6uEchy/98
-bash: qNIUxCGXgTA4EL6c99GFfX13WyxEsZcOT3eumaPDhRuhD/nDfxt9DS1VUanBy6uEchy/98: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ IITbLJK8duVBzV94OzPSzWPL/0AmD9Cn0jsaGEckyhfXb2sGYQxeEkB6H/ChkCRyU5/lss
-bash: IITbLJK8duVBzV94OzPSzWPL/0AmD9Cn0jsaGEckyhfXb2sGYQxeEkB6H/ChkCRyU5/lss: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ PxUK0TuJ3Gsga/2oX+dWzqDXT3BSdpi7qGWOEihZZk9QXPI9Rk2qaGjvw4Ay0JEr2b3TTh
-bash: PxUK0TuJ3Gsga/2oX+dWzqDXT3BSdpi7qGWOEihZZk9QXPI9Rk2qaGjvw4Ay0JEr2b3TTh: No such file or directory
cbassem-mini2-0919:~ crowdnetsuser$ d+YfwirmYx0+3WRQAAACBjcm93ZG5ldHN1c2VyQGNiYXNzZW0tbWluaTItMDkxOQE=
-bash: d+YfwirmYx0+3WRQAAACBjcm93ZG5ldHN1c2VyQGNiYXNzZW0tbWluaTItMDkxOQE=: command not found
cbassem-mini2-0919:~ crowdnetsuser$ -----END OPENSSH PRIVATE KEY-----
-bash: -----END: command not found
cbassem-mini2-0919:~ crowdnetsuser$ pbcopy < /Users/crowdnetsuser/Documents/settings/crowdnets-ssh crowdne
ts@cs.wellesley.edu
cbassem-mini2-0919:~ crowdnetsuser$ pbcopy < /Users/crowdnetsuser/Documents/settings/crowdnets-ssh
cbassem-mini2-0919:~ crowdnetsuser$ pbcopy < /Users/crowdnetsuser/Documents/settings/crowdnets-ssh.pub
cbassem-mini2-0919:~ crowdnetsuser$ ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh crowdnets
@cs.wellesley.edu
Last failed login: Mon Apr 10 18:01:49 EDT 2023 from 10.155.13.220 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Mon Apr 10 17:57:34 2023 from 10.155.13.220
This is the new virtual server running CentOS 7
[crowdnets@tempest ~] mysql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3240
Server version: 5.5.68-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [crowdnets_db]> show tables
    -> ;
+-----------------------+
| Tables_in_crowdnets_db |
+-----------------------+
| test_table            |
+-----------------------+
1 row in set (0.00 sec)

MariaDB [crowdnets_db]> Ctrl-C -- exit!
Aborted
[crowdnets@tempest ~] ^C
[crowdnets@tempest ~] exit
logout
Connection to cs.wellesley.edu closed.
cbassem-mini2-0919:~ crowdnetsuser$ pbcopy < /Users/crowdnetsuser/Documents/settings/crowdnets-ssh.pub
cbassem-mini2-0919:~ crowdnetsuser$ mysql
-bash: mysql: command not found
cbassem-mini2-0919:~ crowdnetsuser$ ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh crowdnets
@cs.wellesley.edu
Last failed login: Mon Apr 10 18:04:35 EDT 2023 from 10.155.13.220 on ssh:notty
```

```
There was 1 failed login attempt since the last successful login.
Last login: Mon Apr 10 18:02:26 2023 from 10.155.13.220
This is the new virtual server running CentOS 7
[crowdnets@tempest ~] mysql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3247
Server version: 5.5.68-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [crowdnets_db]> show tables
    -> ;
+----------------------+
| Tables_in_crowdnets_db |
+----------------------+
| tasks                |
| test_table           |
| users                |
+----------------------+
3 rows in set (0.00 sec)

MariaDB [crowdnets_db]> show tables;
+----------------------+
| Tables_in_crowdnets_db |
+----------------------+
| tasks                |
| test_table           |
| users                |
+----------------------+
3 rows in set (0.00 sec)

MariaDB [crowdnets_db]> show tables;
+----------------------+
| Tables_in_crowdnets_db |
+----------------------+
| assignments          |
| tasks                |
| test_table           |
| users                |
+----------------------+
4 rows in set (0.00 sec)

MariaDB [crowdnets_db]> show assignments;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaD
B server version for the right syntax to use near 'assignments' at line 1
MariaDB [crowdnets_db]> select * in assignments;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaD
B server version for the right syntax to use near 'in assignments' at line 1
MariaDB [crowdnets_db]> show columns in assignments;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| taskID         | int(11)     | NO   | PRI | 0       |       |
| userID         | varchar(50) | NO   | PRI |         |       |
| recommendTime  | datetime    | YES  |     | NULL    |       |
| img            | blob        | YES  |     | NULL    |       |
| submissionTime | datetime    | YES  |     | NULL    |       |
| accepted       | bit(1)      | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
6 rows in set (0.00 sec)

MariaDB [crowdnets_db]>
  [Restored Apr 12, 2023 at 1:59:48 PM]
Last login: Wed Apr 12 13:59:46 on console
```

```
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
cbassem-mini2-0919:~ crowdnetsuser$ /usr/local/bin/python3 /Users/crowdnetsuser/Documents/snapngo/bot.py
 * Serving Flask app 'bot'
 * Debug mode: on
Address already in use
Port 5000 is in use by another program. Either identify and stop that program, or start the server with a
different port.
On macOS, try disabling the 'AirPlay Receiver' service from System Preferences -> Sharing.
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok config add-authtoken 2NkAUrWRcRzuIpTRXdCyD1eLpIl_2qYs12mdX1AMVUY
DfSGxi
Authtoken saved to configuration file: /Users/crowdnetsuser/Library/Application Support/ngrok/ngrok.yml
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ pip3 install slack_bolt
Collecting slack_bolt
  Downloading slack_bolt-1.17.0-py2.py3-none-any.whl (194 kB)
                  ──────────────────────── 194.4/194.4 kB 3.7 MB/s eta 0:00:00
Collecting slack-sdk<4,>=3.20.2
  Downloading slack_sdk-3.21.0-py2.py3-none-any.whl (276 kB)
                  ──────────────────────── 276.1/276.1 kB 5.9 MB/s eta 0:00:00
Installing collected packages: slack-sdk, slack_bolt
Successfully installed slack-sdk-3.21.0 slack_bolt-1.17.0
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 4000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ngrok http 5000
cbassem-mini2-0919:~ crowdnetsuser$ ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh crowdnets
@cs.wellesley.edu
Last login: Mon Apr 10 18:10:44 2023 from 10.155.13.220
This is the new virtual server running CentOS 7
[crowdnets@tempest ~] ^C
[crowdnets@tempest ~] ^C
[crowdnets@tempest ~] exit;
logout
Connection to cs.wellesley.edu closed.
cbassem-mini2-0919:~ crowdnetsuser$ ls
Applications      Documents       Library        Music          Public         ngrok
Desktop           Downloads       Movies         Pictures       get-pip.py     use
cbassem-mini2-0919:~ crowdnetsuser$ cd Documents/snapngo
cbassem-mini2-0919:snapngo crowdnetsuser$ pip install slack-sdk
Requirement already satisfied: slack-sdk in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.
7/site-packages (3.21.0)

[notice] A new release of pip is available: 23.0.1 -> 23.1.1
[notice] To update, run: pip install --upgrade pip
cbassem-mini2-0919:snapngo crowdnetsuser$ pip install slack-sdk slack-bolr pymysql sshtunnel
Requirement already satisfied: slack-sdk in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.
7/site-packages (3.21.0)
ERROR: Could not find a version that satisfies the requirement slack-bolr (from versions: none)
ERROR: No matching distribution found for slack-bolr

[notice] A new release of pip is available: 23.0.1 -> 23.1.1
[notice] To update, run: pip install --upgrade pip
cbassem-mini2-0919:snapngo crowdnetsuser$ pip install slack-sdk slack-bolt pymysql sshtunnel
Requirement already satisfied: slack-sdk in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.
7/site-packages (3.21.0)
Requirement already satisfied: slack-bolt in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3
.7/site-packages (1.17.0)
Requirement already satisfied: pymysql in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/
site-packages (0.9.3)
Collecting sshtunnel
  Downloading sshtunnel-0.4.0-py2.py3-none-any.whl (24 kB)
Collecting paramiko>=2.7.2
  Downloading paramiko-3.1.0-py3-none-any.whl (211 kB)
                  ──────────────────────── 211.2/211.2 kB 4.8 MB/s eta 0:00:00
```

```
Collecting cryptography>=3.3
  Downloading cryptography-40.0.2-cp36-abi3-macosx_10_12_x86_64.whl (2.8 MB)
  ──────────────────────────────────── 2.8/2.8 MB 10.1 MB/s eta 0:00:00
Collecting pynacl>=1.5
  Downloading PyNaCl-1.5.0-cp36-abi3-macosx_10_10_universal2.whl (349 kB)
  ──────────────────────────────────── 349.9/349.9 kB 7.5 MB/s eta 0:00:00
Collecting bcrypt>=3.2
  Downloading bcrypt-4.0.1-cp36-abi3-macosx_10_10_universal2.whl (473 kB)
  ──────────────────────────────────── 473.4/473.4 kB 8.4 MB/s eta 0:00:00
Collecting cffi>=1.12
  Downloading cffi-1.15.1-cp37-cp37m-macosx_10_9_x86_64.whl (178 kB)
  ──────────────────────────────────── 178.9/178.9 kB 5.8 MB/s eta 0:00:00
Collecting pycparser
  Downloading pycparser-2.21-py2.py3-none-any.whl (118 kB)
  ──────────────────────────────────── 118.7/118.7 kB 4.5 MB/s eta 0:00:00
Installing collected packages: pycparser, bcrypt, cffi, pynacl, cryptography, paramiko, sshtunnel
Successfully installed bcrypt-4.0.1 cffi-1.15.1 cryptography-40.0.2 paramiko-3.1.0 pycparser-2.21 pynacl-1
.5.0 sshtunnel-0.4.0

[notice] A new release of pip is available: 23.0.1 -> 23.1.1
[notice] To update, run: pip install --upgrade pip
cbassem-mini2-0919:snapngo crowdnetsuser$ ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh cro
wdnets@cs.wellesley.edu
Last login: Mon Apr 24 14:57:32 2023 from 10.155.13.220
This is the new virtual server running CentOS 7
[crowdnets@tempest ~] whoami
crowdnets
[crowdnets@tempest ~] ifconfig
ens160: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 149.130.15.5  netmask 255.255.128.0  broadcast 149.130.127.255
        inet6 fe80::250:56ff:fe9f:6f53  prefixlen 64  scopeid 0x20<link>
        ether 00:50:56:9f:6f:53  txqueuelen 1000  (Ethernet)
        RX packets 1757282684  bytes 5054703139968 (4.5 TiB)
        RX errors 0  dropped 3350  overruns 0  frame 0
        TX packets 1043385919  bytes 3975744231683 (3.6 TiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 53656256  bytes 19087510156 (17.7 GiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 53656256  bytes 19087510156 (17.7 GiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

[crowdnets@tempest ~] grant all privileges on crowdnets_db to 'crowdnets
> grant all privileges on crowdnets_db to 'crowdnets;
-bash: grant: command not found
[crowdnets@tempest ~] grant all privileges on crowdnets_db to 'crowdnetsuser'@'localhost' identified with
'auth_socket';
-bash: grant: command not found
[crowdnets@tempest ~] sql;
-bash: sql: command not found
[crowdnets@tempest ~] sql
-bash: sql: command not found
[crowdnets@tempest ~] mysql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 6834
Server version: 5.5.68-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [crowdnets_db]> grant all privileges on crowdnets_db to 'crowdnetsuser'@'localhost' identified wit
```

```
h 'auth_socket';
ERROR 1142 (42000): GRANT command denied to user 'crowdnets'@'localhost' for table 'crowdnets_db'
MariaDB [crowdnets_db]>
MariaDB [crowdnets_db]> Ctrl-C -- exit!
Aborted
[crowdnets@tempest ~] ssh-copy-id -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh crowdnets@cs.we
llesley.edu

/usr/bin/ssh-copy-id: ERROR: failed to open ID file '/Users/crowdnetsuser/Documents/settings/crowdnets-ssh
.pub': No such file or directory
[crowdnets@tempest ~] ^C
[crowdnets@tempest ~] ^C
[crowdnets@tempest ~] exit;
logout
Connection to cs.wellesley.edu closed.
cbassem-mini2-0919:snapngo crowdnetsuser$ ssh-copy-id -i /Users/crowdnetsuser/Documents/settings/crowdnets
-ssh crowdnets@cs.wellesley.edu
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/Users/crowdnetsuser/Documents/settings/cro
wdnets-ssh.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already i
nstalled

/usr/bin/ssh-copy-id: WARNING: All keys were skipped because they already exist on the remote system.
                (if you think this is a mistake, you may want to use -f option)

cbassem-mini2-0919:snapngo crowdnetsuser$ ssh-copy-id -i /Users/crowdnetsuser/Documents/settings/crowdnets
-ssh crowdnets@cs.wellesley.edu
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/Users/crowdnetsuser/Documents/settings/cro
wdnets-ssh.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already i
nstalled

/usr/bin/ssh-copy-id: WARNING: All keys were skipped because they already exist on the remote system.
                (if you think this is a mistake, you may want to use -f option)

cbassem-mini2-0919:snapngo crowdnetsuser$ openssl s_client -connect <hostname>:<port>
-bash: syntax error near unexpected token `newline'
cbassem-mini2-0919:snapngo crowdnetsuser$ openssl s_client -connect crowdnets@cs.wellesley.edu
no port defined
usage: s_client args

 -4                - Force IPv4
 -6                - Force IPv6
 -host host        - use -connect instead
 -port port        - use -connect instead
 -connect host:port - who to connect to (default is localhost:4433)
 -proxy host:port - connect to http proxy
 -verify arg       - turn on peer certificate verification
 -cert arg         - certificate file to use, PEM format assumed
 -certform arg     - certificate format (PEM or DER) PEM default
 -key arg          - Private key file to use, in cert file if
                     not specified but cert file is.
 -keyform arg      - key format (PEM or DER) PEM default
 -pass arg         - private key file pass phrase source
 -CApath arg       - PEM format directory of CA's
 -CAfile arg       - PEM format file of CA's
 -reconnect        - Drop and re-make the connection with the same Session-ID
 -pause            - sleep(1) after each read(2) and write(2) system call
 -showcerts        - show all certificates in the chain
 -debug            - extra output
 -msg              - Show protocol messages
 -nbio_test        - more ssl protocol testing
 -state            - print the 'ssl' states
 -nbio             - Run with non-blocking IO
 -crlf             - convert LF from terminal into CRLF
 -quiet            - no s_client output
 -ign_eof          - ignore input eof (default when -quiet)
 -no_ign_eof       - don't ignore input eof
 -tls1_2           - just use TLSv1.2
```

```
-tls1_1       - just use TLSv1.1
-tls1         - just use TLSv1
-dtls1        - just use DTLSv1
-mtu          - set the link layer MTU
-no_tls1_2/-no_tls1_1/-no_tls1/-no_ssl3/-no_ssl2 - turn off that protocol
-bugs         - Switch on all SSL implementation bug workarounds
-cipher       - preferred cipher to use, use the 'openssl ciphers'
                command to see what is available
-starttls prot - use the STARTTLS command before starting TLS
                for those protocols that support it, where
                'prot' defines which one to assume.  Currently,
                only "smtp", "lmtp", "pop3", "imap", "ftp" and "xmpp"
                are supported.
-xmpphost host - connect to this virtual host on the xmpp server
-sess_out arg - file to write SSL session to
-sess_in arg  - file to read SSL session from
-servername host  - Set TLS extension servername in ClientHello
-tlsextdebug      - hex dump of all TLS extensions received
-status           - request certificate status from server
-no_ticket        - disable use of RFC4507bis session tickets
-alpn arg         - enable ALPN extension, considering named protocols supported (comma-separated list)
-groups arg       - specify EC curve groups (colon-separated list)
-use_srtp profiles - Offer SRTP key management with a colon-separated profile list
-keymatexport label   - Export keying material using label
-keymatexportlen len  - Export len bytes of keying material (default 20)
cbassem-mini2-0919:snapngo crowdnetsuser$ sudo lsof -i -P -n | grep LISTEN
Password:
launchd      1          root    7u  IPv6 0xf47ff8c94ade1247    0t0    TCP *:22 (LISTEN)
launchd      1          root    8u  IPv4 0xf47ff8c47e2da9bf    0t0    TCP *:22 (LISTEN)
launchd      1          root   10u  IPv6 0xf47ff8c94ade1247    0t0    TCP *:22 (LISTEN)
launchd      1          root   11u  IPv4 0xf47ff8c47e2da9bf    0t0    TCP *:22 (LISTEN)
launchd      1          root   16u  IPv6 0xf47ff8c94ade1927    0t0    TCP *:49152 (LISTEN)
remoted     97          root    4u  IPv6 0xf47ff8c94ade2007    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49155 (LISTEN)
remoted     97          root    5u  IPv6 0xf47ff8c94ade2dc7    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49156 (LISTEN)
remoted     97          root    6u  IPv6 0xf47ff8c94ade34a7    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49157 (LISTEN)
remoted     97          root    7u  IPv6 0xf47ff8c94ade3b87    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49158 (LISTEN)
remoted     97          root    8u  IPv6 0xf47ff8c94ade4267    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49159 (LISTEN)
remoted     97          root    9u  IPv6 0xf47ff8c94ade4947    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49160 (LISTEN)
remoted     97          root   10u  IPv6 0xf47ff8c94ade5027    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49161 (LISTEN)
remoted     97          root   11u  IPv6 0xf47ff8c94ade5707    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49162 (LISTEN)
remoted     97          root   12u  IPv6 0xf47ff8c94ade5de7    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49163 (LISTEN)
remoted     97          root   13u  IPv6 0xf47ff8c94ade64c7    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49164 (LISTEN)
remoted     97          root   14u  IPv6 0xf47ff8c94ade6ba7    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49165 (LISTEN)
remoted     97          root   15u  IPv6 0xf47ff8c94ade7287    0t0    TCP [fe80:5::aede:48ff:fe00:112
2]:49166 (LISTEN)
remotepai  492          root    3u  IPv6 0xf47ff8c94ade1927    0t0    TCP *:49152 (LISTEN)
MySQLWork  538  crowdnetsuser    8u  IPv4 0xf47ff8c47d18a9bf    0t0    TCP 127.0.0.1:53842 (LISTEN)
MySQLWork  538  crowdnetsuser   12u  IPv4 0xf47ff8c47d1c5f1f    0t0    TCP 127.0.0.1:53847 (LISTEN)
MySQLWork  538  crowdnetsuser   15u  IPv4 0xf47ff8c47ceee9bf    0t0    TCP 127.0.0.1:53860 (LISTEN)
Adobe\x20  884  crowdnetsuser   11u  IPv4 0xf47ff8c47e2d89bf    0t0    TCP 127.0.0.1:15292 (LISTEN)
node       923  crowdnetsuser   17u  IPv4 0xf47ff8c47e2db45f    0t0    TCP 127.0.0.1:49180 (LISTEN)
node       923  crowdnetsuser   19u  IPv4 0xf47ff8c47e2d945f    0t0    TCP 127.0.0.1:49181 (LISTEN)
node       923  crowdnetsuser   20u  IPv4 0xf47ff8c47e2d7f1f    0t0    TCP 127.0.0.1:45623 (LISTEN)
node       923  crowdnetsuser   21u  IPv4 0xf47ff8c47e2d69bf    0t0    TCP 127.0.0.1:49195 (LISTEN)
Electron  1014  crowdnetsuser   40u  IPv6 0xf47ff8c94addbdc7    0t0    TCP *:49298 (LISTEN)
cbassem-mini2-0919:snapngo crowdnetsuser$ ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh cro
wdnets@cs.wellesley.edu
Last login: Mon Apr 24 15:12:06 2023 from 10.155.13.220
```

```
This is the new virtual server running CentOS 7
[crowdnets@tempest ~] ^C
[crowdnets@tempest ~] nmap quit;

Starting Nmap 6.40 ( http://nmap.org ) at 2023-04-24 18:17 EDT
Failed to resolve "quit".
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 0.03 seconds
[crowdnets@tempest ~] nmap quit;

Starting Nmap 6.40 ( http://nmap.org ) at 2023-04-24 18:17 EDT
Failed to resolve "quit".
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 0.03 seconds
[crowdnets@tempest ~] ^C
[crowdnets@tempest ~] exit
logout
Connection to cs.wellesley.edu closed.
cbassem-mini2-0919:snapngo crowdnetsuser$ nmap cs.wellesley.edu
-bash: nmap: command not found
cbassem-mini2-0919:snapngo crowdnetsuser$ apt-get install nmap\
>
-bash: apt-get: command not found
cbassem-mini2-0919:snapngo crowdnetsuser$ apt-get install nmap
-bash: apt-get: command not found
cbassem-mini2-0919:snapngo crowdnetsuser$ openssl s_client -connect cs.wellesley.edu 3000
unknown option 3000
no port defined
usage: s_client args

 -4              - Force IPv4
 -6              - Force IPv6
 -host host      - use -connect instead
 -port port      - use -connect instead
 -connect host:port - who to connect to (default is localhost:4433)
 -proxy host:port - connect to http proxy
 -verify arg     - turn on peer certificate verification
 -cert arg       - certificate file to use, PEM format assumed
 -certform arg - certificate format (PEM or DER) PEM default
 -key arg        - Private key file to use, in cert file if
                   not specified but cert file is.
 -keyform arg  - key format (PEM or DER) PEM default
 -pass arg       - private key file pass phrase source
 -CApath arg   - PEM format directory of CA's
 -CAfile arg   - PEM format file of CA's
 -reconnect    - Drop and re-make the connection with the same Session-ID
 -pause        - sleep(1) after each read(2) and write(2) system call
 -showcerts    - show all certificates in the chain
 -debug        - extra output
 -msg          - Show protocol messages
 -nbio_test    - more ssl protocol testing
 -state        - print the 'ssl' states
 -nbio         - Run with non-blocking IO
 -crlf         - convert LF from terminal into CRLF
 -quiet        - no s_client output
 -ign_eof      - ignore input eof (default when -quiet)
 -no_ign_eof   - don't ignore input eof
 -tls1_2       - just use TLSv1.2
 -tls1_1       - just use TLSv1.1
 -tls1         - just use TLSv1
 -dtls1        - just use DTLSv1
 -mtu          - set the link layer MTU
 -no_tls1_2/-no_tls1_1/-no_tls1/-no_ssl3/-no_ssl2 - turn off that protocol
 -bugs         - Switch on all SSL implementation bug workarounds
 -cipher       - preferred cipher to use, use the 'openssl ciphers'
                   command to see what is available
 -starttls prot - use the STARTTLS command before starting TLS
                   for those protocols that support it, where
                   'prot' defines which one to assume.  Currently,
```

```
                 only "smtp", "lmtp", "pop3", "imap", "ftp" and "xmpp"
                 are supported.
 -xmpphost host - connect to this virtual host on the xmpp server
 -sess_out arg - file to write SSL session to
 -sess_in arg  - file to read SSL session from
 -servername host  - Set TLS extension servername in ClientHello
 -tlsextdebug      - hex dump of all TLS extensions received
 -status           - request certificate status from server
 -no_ticket        - disable use of RFC4507bis session tickets
 -alpn arg         - enable ALPN extension, considering named protocols supported (comma-separated list)
 -groups arg       - specify EC curve groups (colon-separated list)
 -use_srtp profiles - Offer SRTP key management with a colon-separated profile list
 -keymatexport label   - Export keying material using label
 -keymatexportlen len  - Export len bytes of keying material (default 20)
cbassem-mini2-0919:snapngo crowdnetsuser$ ssh -i /Users/crowdnetsuser/Documents/settings/crowdnets-ssh cro
wdnets@cs.wellesley.edu
Last login: Mon Apr 24 18:15:25 2023 from 10.155.13.220
This is the new virtual server running CentOS 7
stat[crowdnets@tempest ~] status
-bash: status: command not found
[crowdnets@tempest ~] mysql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 6838
Server version: 5.5.68-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MariaDB [crowdnets_db]> status
--------------
mysql  Ver 15.1 Distrib 5.5.68-MariaDB, for Linux (x86_64) using readline 5.1

Connection id:          6838
Current database:       crowdnets_db
Current user:           crowdnets@localhost
SSL:                    Not in use
Current pager:          stdout
Using outfile:          ''
Using delimiter:        ;
Server:                 MariaDB
Server version:         5.5.68-MariaDB MariaDB Server
Protocol version:       10
Connection:             Localhost via UNIX socket
Server characterset:    latin1
Db      characterset:   latin1
Client characterset:    utf8
Conn.  characterset:    utf8
UNIX socket:            /var/lib/mysql/mysql.sock
Uptime:                 29 days 17 hours 22 min 5 sec

Threads: 1  Questions: 759746  Slow queries: 30  Opens: 99997  Flush tables: 2  Open tables: 400  Queries
per second avg: 0.295
--------------

MariaDB [crowdnets_db]> show variables like %ssl%'
    '> ;
    '>
    '> exit;
    '> Ctrl-C -- exit!
```
Aborted
```
[crowdnets@tempest ~] mysql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

Welcome to the MariaDB monitor. Commands end with ; or \g.

```
Your MariaDB connection id is 6839
Server version: 5.5.68-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [crowdnets_db]> show variables like '%ssl%'
    -> ;
+---------------+----------+
| Variable_name | Value    |
+---------------+----------+
| have_openssl  | DISABLED |
| have_ssl      | DISABLED |
| ssl_ca        |          |
| ssl_capath    |          |
| ssl_cert      |          |
| ssl_cipher    |          |
| ssl_key       |          |
+---------------+----------+
7 rows in set (0.02 sec)

MariaDB [crowdnets_db]> openssl
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaD
B server version for the right syntax to use near 'openssl' at line 1
MariaDB [crowdnets_db]> exit;
Bye
[crowdnets@tempest ~] openssl s_client -connect 127.0.0.1 3306
s_client: must not provide both -connect option and target parameter
s_client: Use -help for summary.
[crowdnets@tempest ~] ^C
[crowdnets@tempest ~] exit;
logout
Connection to cs.wellesley.edu closed.
cbassem-mini2-0919:snapngo crowdnetsuser$ openssl s_client -connect 127.0.0.1 3306
unknown option 3306
no port defined
usage: s_client args

 -4               - Force IPv4
 -6               - Force IPv6
 -host host       - use -connect instead
 -port port       - use -connect instead
 -connect host:port - who to connect to (default is localhost:4433)
 -proxy host:port - connect to http proxy
 -verify arg      - turn on peer certificate verification
 -cert arg        - certificate file to use, PEM format assumed
 -certform arg    - certificate format (PEM or DER) PEM default
 -key arg         - Private key file to use, in cert file if
                    not specified but cert file is.
 -keyform arg     - key format (PEM or DER) PEM default
 -pass arg        - private key file pass phrase source
 -CApath arg      - PEM format directory of CA's
 -CAfile arg      - PEM format file of CA's
 -reconnect       - Drop and re-make the connection with the same Session-ID
 -pause           - sleep(1) after each read(2) and write(2) system call
 -showcerts       - show all certificates in the chain
 -debug           - extra output
 -msg             - Show protocol messages
 -nbio_test       - more ssl protocol testing
 -state           - print the 'ssl' states
 -nbio            - Run with non-blocking IO
 -crlf            - convert LF from terminal into CRLF
 -quiet           - no s_client output
 -ign_eof         - ignore input eof (default when -quiet)
 -no_ign_eof      - don't ignore input eof
 -tls1_2          - just use TLSv1.2
 -tls1_1          - just use TLSv1.1
```

```
 -tls1          - just use TLSv1
 -dtls1         - just use DTLSv1
 -mtu           - set the link layer MTU
 -no_tls1_2/-no_tls1_1/-no_tls1/-no_ssl3/-no_ssl2 - turn off that protocol
 -bugs          - Switch on all SSL implementation bug workarounds
 -cipher        - preferred cipher to use, use the 'openssl ciphers'
                  command to see what is available
 -starttls prot - use the STARTTLS command before starting TLS
                  for those protocols that support it, where
                  'prot' defines which one to assume.  Currently,
                  only "smtp", "lmtp", "pop3", "imap", "ftp" and "xmpp"
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 -alpn arg         - enable ALPN extension, considering named protocols supported (comma-separated list)
 -groups arg       - specify EC curve groups (colon-separated list)
 -use_srtp profiles - Offer SRTP key management with a colon-separated profile list
 -keymatexport label   - Export keying material using label
 -keymatexportlen len  - Export len bytes of keying material (default 20)
cbassem-mini2-0919:snapngo crowdnetsuser$ sudo find / -name my.cnf -print 2>/dev/null
Password:
cbassem-mini2-0919:snapngo crowdnetsuser$
```