

NAME

TASHFEEN LATIF

ROLL NO

17P-6035(CS-A)

COURSE

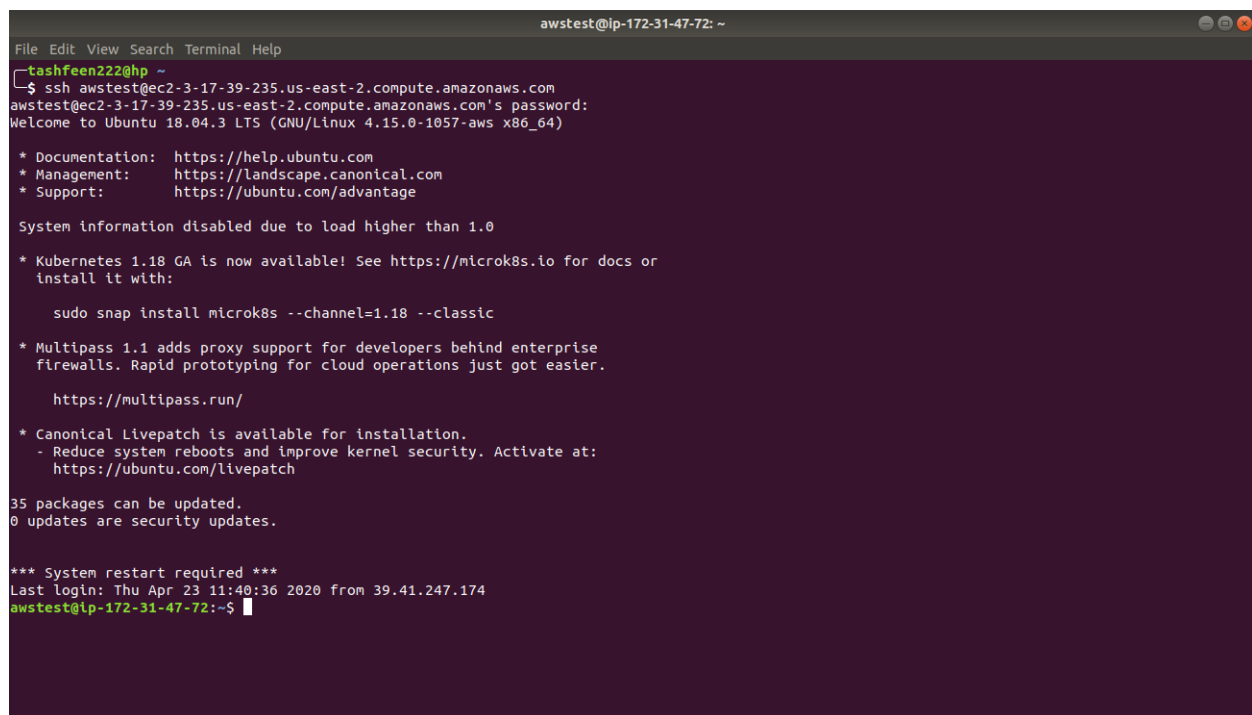
Operating System Lab

Professor

Sir Usman Wajid Sahab

System Administration :-> Lab Task #2

First of all i login into remote shell with given address and password



```
awstest@ip-172-31-47-72: ~
File Edit View Search Terminal Help
tashfeen222@hp ~
$ ssh awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com
awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information disabled due to load higher than 1.0

 * Kubernetes 1.18 GA is now available! See https://microk8s.io for docs or
   install it with:

     sudo snap install microk8s --channel=1.18 --classic

 * Multipass 1.1 adds proxy support for developers behind enterprise
   firewalls. Rapid prototyping for cloud operations just got easier.

     https://multipass.run/

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35 packages can be updated.
0 updates are security updates.

*** System restart required ***
Last login: Thu Apr 23 11:40:36 2020 from 39.41.247.174
awstest@ip-172-31-47-72:~$
```

Then I make my folder

```
awstest@ip-172-31-47-72: ~
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*** System restart required ***
Last login: Thu Apr 23 14:36:59 2020 from 39.36.154.86
awstest@ip-172-31-47-72:~$ ls
p166021 p176001 p176055 p176113 p180013 p180039 p180054
p166024 p176003 p176059 p176144 p180030 p180040 p180075
p166140 p176020 p176072 p180011 p180034 p180050 p201024
awstest@ip-172-31-47-72:~$ mkdir p176035
awstest@ip-172-31-47-72:~$ ls
p166021 p176001 p176035 p176072 p180011 p180034 p180050 p201024
p166024 p176003 p176055 p176113 p180013 p180039 p180054
p166140 p176020 p176059 p176144 p180030 p180040 p180075
awstest@ip-172-31-47-72:~$
```

Then I make P176035.py and then add some code

```
awstest@ip-172-31-47-72: ~/p176035
File Edit View Search Terminal Help

snap install sublime-text
Please ask your administrator.

awstest@ip-172-31-47-72:~/p176035$ sudo snap install sublime-text
[sudo] password for awstest:
awstest is not in the sudoers file. This incident will be reported.
awstest@ip-172-31-47-72:~/p176035$ ls
awstest@ip-172-31-47-72:~/p176035$ clear

awstest@ip-172-31-47-72:~/p176035$ vi p176035.py
awstest@ip-172-31-47-72:~/p176035$ python3 p176035.py
.p176035.py.swm .p176035.py.swo p176035.py
.p176035.py.swm .p176035.py.swp
awstest@ip-172-31-47-72:~/p176035$ python3 p176035.py
  File "p176035.py", line 2
    for i in range(1000)
    ^
SyntaxError: invalid syntax
awstest@ip-172-31-47-72:~/p176035$ vi p176035.py
awstest@ip-172-31-47-72:~/p176035$
awstest@ip-172-31-47-72:~/p176035$ python3 p176035.py
i: 0
i: 1
i: 2
i: 3
i: 4
i: 5
i: 6
i: 7
i: 8
i: 9
i: 10
i: 11

```

and then Using with python and run this

```
File Edit View Search Terminal Help
awstest@ip-172-31-47-72: ~/p176035
awstest@ip-172-31-47-72:~/p176035$ python3 p176035.py
l: 0
l: 1
l: 2
l: 3
l: 4
l: 5
l: 6
l: 7
l: 8
l: 9
l: 10
l: 11
l: 12
l: 13
l: 14
l: 15
l: 16
l: 17
l: 18
l: 19
l: 20
l: 21
l: 22
l: 23
l: 24
l: 25
l: 26
l: 27
l: 28
l: 29
l: 30
l: 31
l: 32
l: 33
l: 34
```

And then close the above previous terminal video and once again login and see the processes

```
File Edit View Search Terminal Help
awstest@ip-172-31-47-72: ~
tashfeen222@hp ~
$ ssh awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com
awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com's password:
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35 packages can be updated.
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*** System restart required ***
Last login: Thu Apr 23 17:11:46 2020 from 39.41.200.214
awstest@ip-172-31-47-72:~$ ps aux | grep p176035
awstest 5050  0.0  0.9 55748  9220 pts/1    T   17:12   0:00 vi p176035.py
awstest 5415  0.0  0.1 14856  1032 pts/0    S+  17:30   0:00 grep --color=auto p176035
awstest@ip-172-31-47-72:~$
```

Now I want to save the output because of if somehow connection is disconnected and I want no output loss

```
awstest@ip-172-31-47-72: ~/p176035
File Edit View Search Terminal Help

awstest@ip-172-31-47-72:~$ cd p176035
awstest@ip-172-31-47-72:~/p176035$ ls
awstest@ip-172-31-47-72:~/p176035$ nohup python3 p176035.py > p176035.log &
[1] 5505
awstest@ip-172-31-47-72:~/p176035$ nohup: ignoring input and redirecting stderr to stdout
tail -f p176035.log
l: 47
l: 48
l: 49
l: 50
l: 51
l: 52
l: 53
l: 54
l: 55
l: 56
l: 57
l: 58
l: 59
l: 60
l: 61
l: 62
l: 63
l: 64
l: 65
l: 66
l: 67
l: 68
l: 69
l: 70
l: 71
l: 72
l: 73
```

Now I see the processes

```
awstest@ip-172-31-47-72: ~/p176035
File Edit View Search Terminal Help

l: 90
l: 91
l: 92
l: 93
l: 94
l: 95
l: 96
l: 97
l: 98
l: 99
l: 100
l: 101
l: 102
l: 103
l: 104
l: 105
l: 106
l: 107
l: 108
l: 109
l: 110
l: 111
l: 112
l: 113
l: 114
l: 115
l: 116
l: 117
l: 118
l: 119
^[[Al: 120
l: 121
^X^C
awstest@ip-172-31-47-72:~/p176035$
awstest@ip-172-31-47-72:~/p176035$ ps aux | grep p176035
awstest 5050 0.0 0.9 55748 9220 pts/1 T 17:12 0:00 vi p176035.py
awstest 5505 0.1 0.9 30160 9324 pts/0 S 17:36 0:00 python3 p176035.py
awstest@ip-172-31-47-72:~/p176035$
```

Now restart the connection and see the running processes

```
awstest@ip-172-31-47-72: ~
File Edit View Search Terminal Help
tashfeen222@hp ~
$ ssh awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com
awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)

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 * Canonical Livepatch is available for installation.
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     https://ubuntu.com/livepatch

35 packages can be updated.
0 updates are security updates.

*** System restart required ***
Last login: Thu Apr 23 17:30:29 2020 from 39.41.200.214
awstest@ip-172-31-47-72:~$ ps aux | grep p176035
awstest  5050  0.0  0.9 55748 9220 pts/1    T   17:12   0:00 vi p176035.py
awstest  5505  0.1  0.9 30160 9324 ?        S   17:36   0:00 python3 p176035.py
awstest  5657  0.0  0.1 14856 1024 pts/0    S+  17:40   0:00 grep --color=auto p176035
awstest@ip-172-31-47-72:~$
```

Now I follow the log file

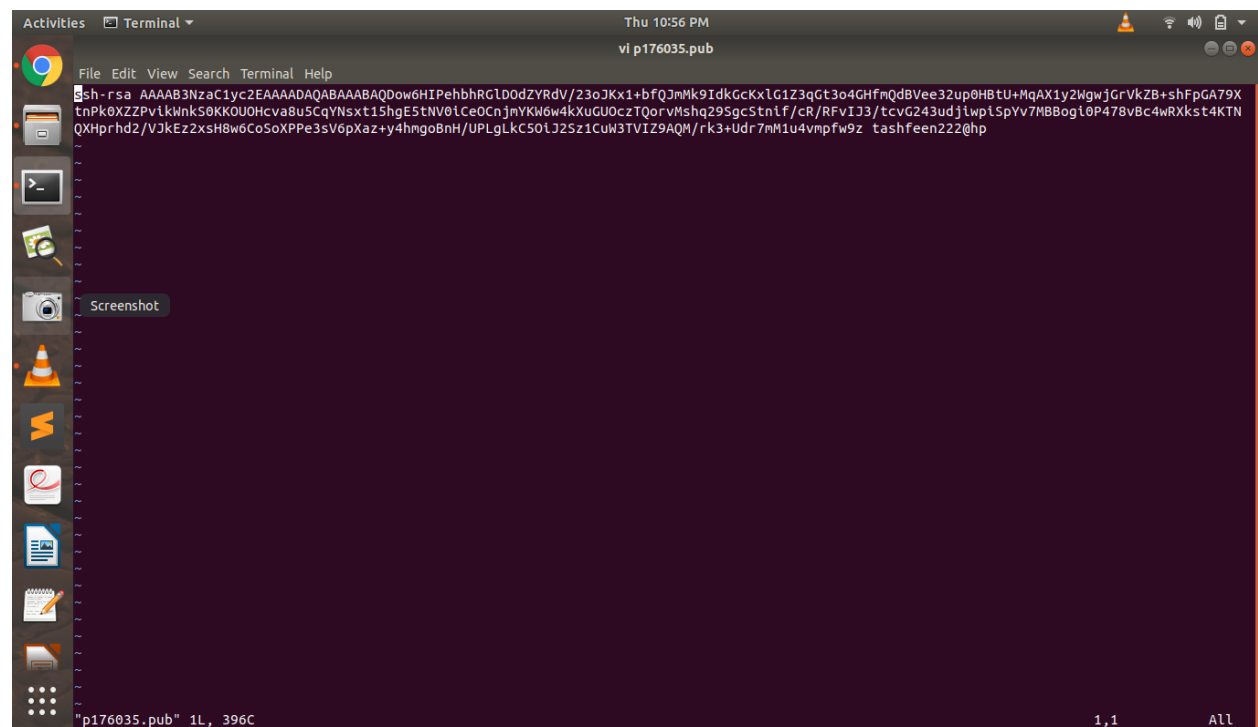
```
awstest@ip-172-31-47-72: ~/p176035
File Edit View Search Terminal Help
awstest@ip-172-31-47-72:~$ cd p176035
awstest@ip-172-31-47-72:~/p176035$ tail -f p176035.log
l: 334
l: 335
l: 336
l: 337
l: 338
l: 339
l: 340
l: 341
l: 342
l: 343
l: 344
l: 345
l: 346
l: 347
l: 348
l: 349
l: 350
l: 351
l: 352
l: 353
l: 354
l: 355
l: 356
l:

```

Now I kill the process

```
: 362
: 363
C
wstest@ip-172-31-47-72:~/p176035$ ps aux | grep p176035
wstest 5050 0.0 0.9 55748 9220 pts/1 T 17:12 0:00 vi p176035.py
wstest 5505 0.0 0.9 30160 9324 ? S 17:36 0:00 python3 p176035.py
wstest 5701 0.0 0.1 13108 1088 pts/0 R+ 17:43 0:00 grep --color=auto p176035
wstest@ip-172-31-47-72:~/p176035$ kill -9 5505
wstest@ip-172-31-47-72:~/p176035$
```

Now I create key for me and I forget to take that screenshot of that key but that is the public part of the key



The screenshot shows a terminal window titled "Terminal" with a menu bar (File, Edit, View, Search, Terminal, Help) and a toolbar (Activities, Screenshot, etc.). The terminal content displays an RSA public key in PEM format, starting with "ssh-rsa" and ending with "tashfeen222@hp". The key is displayed in a single line wrapped across the terminal width. The status bar at the bottom shows "p176035.pub" 1L, 396C, 1,1, and All.

```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDow6HIPEhbhRGLD0dZYRdV/23oJKx1+bFQJmMk9IdkGcKxLG1Z3qGt3o4GHfmd8Vee32up0HBtU+MqAX1y2WgwjGrVkB+shFpGA79X
tnPk0XZZPvikWnk50KKOUHcva8u5CqYNsxt15hgE5tNV0tCe0CnJmYKW6w4kXuGU0czTQorvMshq295gcStnlf/cR/RFvI33/tcvG243udjIwplSpYv7MBBogI0P478vBc4wRXkst4KTN
QXHprhd2/VJkEz2xsH8w6CoSoXPpe3sV6pXaz+y4hngoBnH/UPLgLkC50lJ2Sz1CuW3TVI29AQM/rk3+Udr7mM1u4vmpfw9z tashfeen222@hp
```

And Now I Copy the key into given address

```
tashfeen222@hp: ~  
File Edit View Search Terminal Help  
  
tashfeen222@hp ~  
$ ssh-copy-id -i p176035 awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com  
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "p176035.pub"  
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed  
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys  
awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com's password:  
  
Number of key(s) added: 1  
  
Now try logging into the machine, with:  "ssh 'awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com'"  
and check to make sure that only the key(s) you wanted were added.  
  
tashfeen222@hp ~  
$
```

Now because of my private key no need of password to access remote shell

```
tashfeen222@hp ~  
$ ssh -i p176035 awstest@ec2-3-17-39-235.us-east-2.compute.amazonaws.com  
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information disabled due to load higher than 1.0  
  
* Kubernetes 1.18 GA is now available! See https://microk8s.io for docs or  
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    sudo snap install microk8s --channel=1.18 --classic  
  
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* Canonical Livepatch is available for installation.  
  - Reduce system reboots and improve kernel security. Activate at:  
    https://ubuntu.com/livepatch  
  
35 packages can be updated.  
0 updates are security updates.  
  
*** System restart required ***  
Last login: Thu Apr 23 17:40:28 2020 from 39.41.200.214  
awstest@ip-172-31-47-72:~$
```

←-----THE END-----→