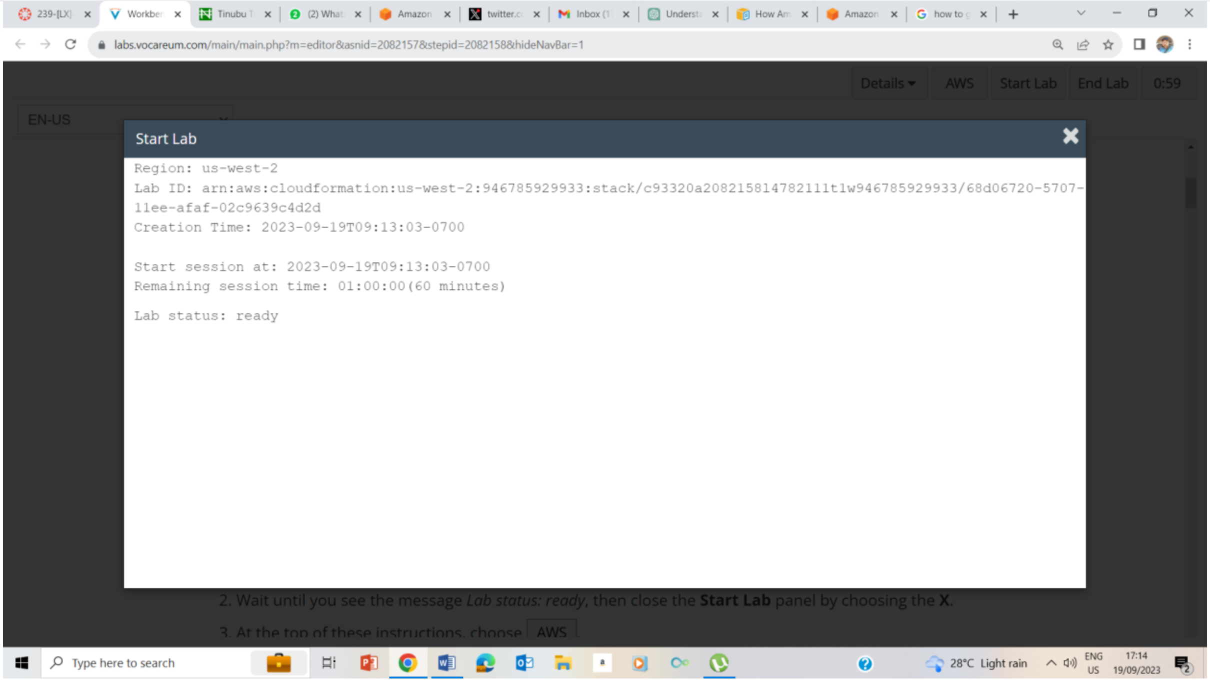
# Managing Processes Lab

## Accessing the AWS Management Console

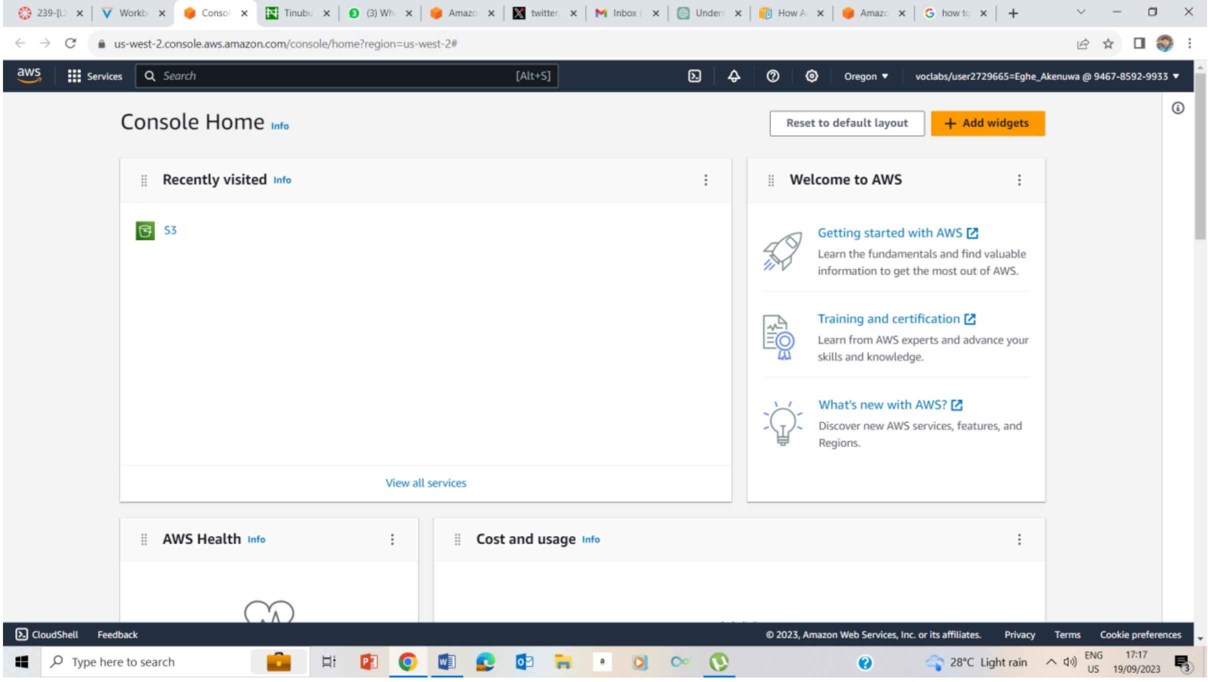

labs.vocareum.com/main/main.php?m=editor&asnid=2082157&stepid=2082158&hideNavBar=1
Details
AWS
Start Lab
End Lab
0:59
EN-US
Start Lab

```
Region: us-west-2
Lab ID: arn:aws:cloudformation:us-west-2:946785929933:stack/c93320a208215814782111t1w946785929933/68d06720-5707-
11ee-afaf-02c9639c4d2d
Creation Time: 2023-09-19T09:13:03-0700

Start session at: 2023-09-19T09:13:03-0700
Remaining session time: 01:00:00(60 minutes)

Lab status: ready
```

2. Wait until you see the message *Lab status: ready*, then close the **Start Lab** panel by choosing the **X**.

3. At the top of these instructions, choose AWS

1-2 Starting of the lab


us-west-2.console.aws.amazon.com/console/home?region=us-west-2#
aws
Services
Search
[Alt+S]
Oregon
voclabs/user2729665=Eghe_Akenuwa @ 9467-8592-9933
Console Home Info
Reset to default layout
Add widgets
Recently visited Info
S3
View all services
Welcome to AWS
Getting started with AWS
Training and certification
What's new with AWS?
AWS Health Info
Cost and usage Info
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Learn the fundamentals and find valuable information to get the most out of AWS.

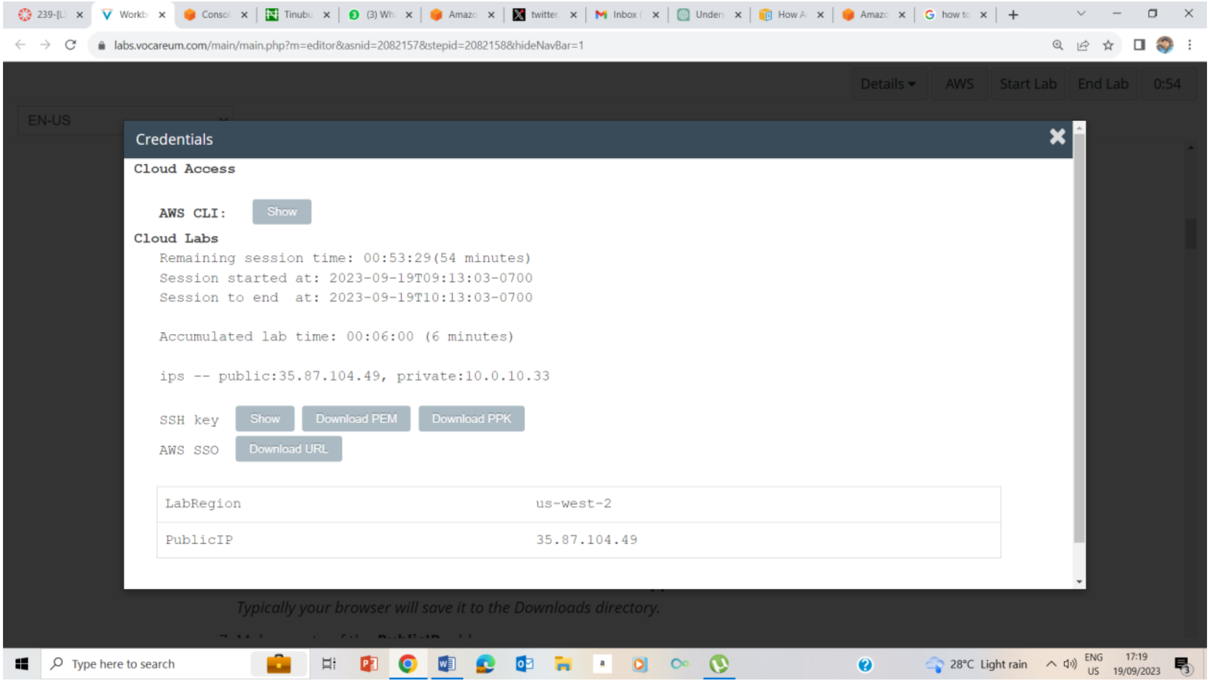
Learn from AWS experts and advance your skills and knowledge.

Discover new AWS services, features, and Regions.

3. Choose AWS at the top of the instruction page.

# Task 1: Use SSH to connect to an Amazon Linux EC2 instance

## Windows Users: Using SSH to Connect


Credentials

**Cloud Access**

AWS CLI: Show

**Cloud Labs**

```
Remaining session time: 00:53:29(54 minutes)
Session started at: 2023-09-19T09:13:03-0700
Session to end  at: 2023-09-19T10:13:03-0700

Accumulated lab time: 00:06:00 (6 minutes)

ips -- public:35.87.104.49, private:10.0.10.33
```

SSH key: Show | Download PEM | Download PPK

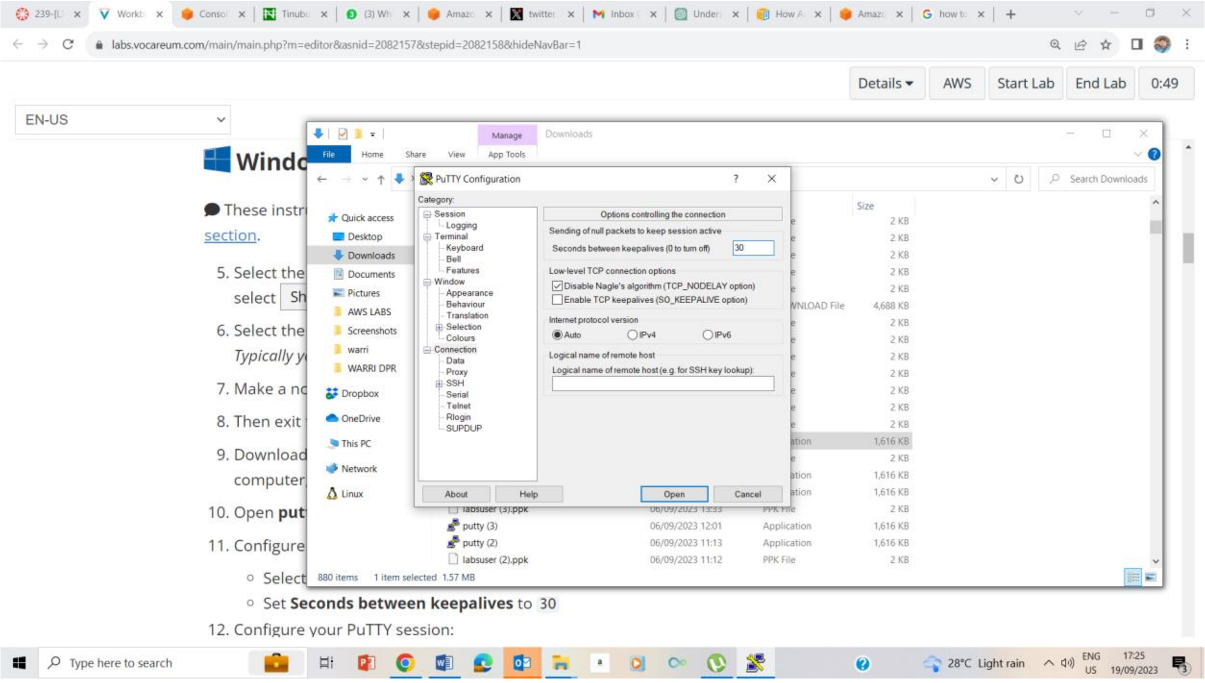
AWS SSO: Download URL

| | |
|---|---|
| LabRegion | us-west-2 |
| PublicIP | 35.87.104.49 |

*Typically your browser will save it to the Downloads directory.*

labs.vocareum.com/main/main.php?m=editor&asnid=2082157&stepid=2082158&hideNavBar=1
Details
AWS
Start Lab
End Lab
0:54
EN-US
Type here to search
28°C Light rain
17:19
19/09/2023

5-8 On the Details dropdown box, I clicked on show, downloaded the ppk file, and noted the public ip address as 35.87.104.49 and exited.


PuTTY Configuration

Options controlling the connection

Sending of null packets to keep session active

Seconds between keepalives (0 to turn off): 30

Low-level TCP connection options

☑ Disable Nagle's algorithm (TCP_NODELAY option)

☐ Enable TCP keepalives (SO_KEEPALIVE option)

Internet protocol version: ● Auto ○ IPv4 ○ IPv6

Logical name of remote host

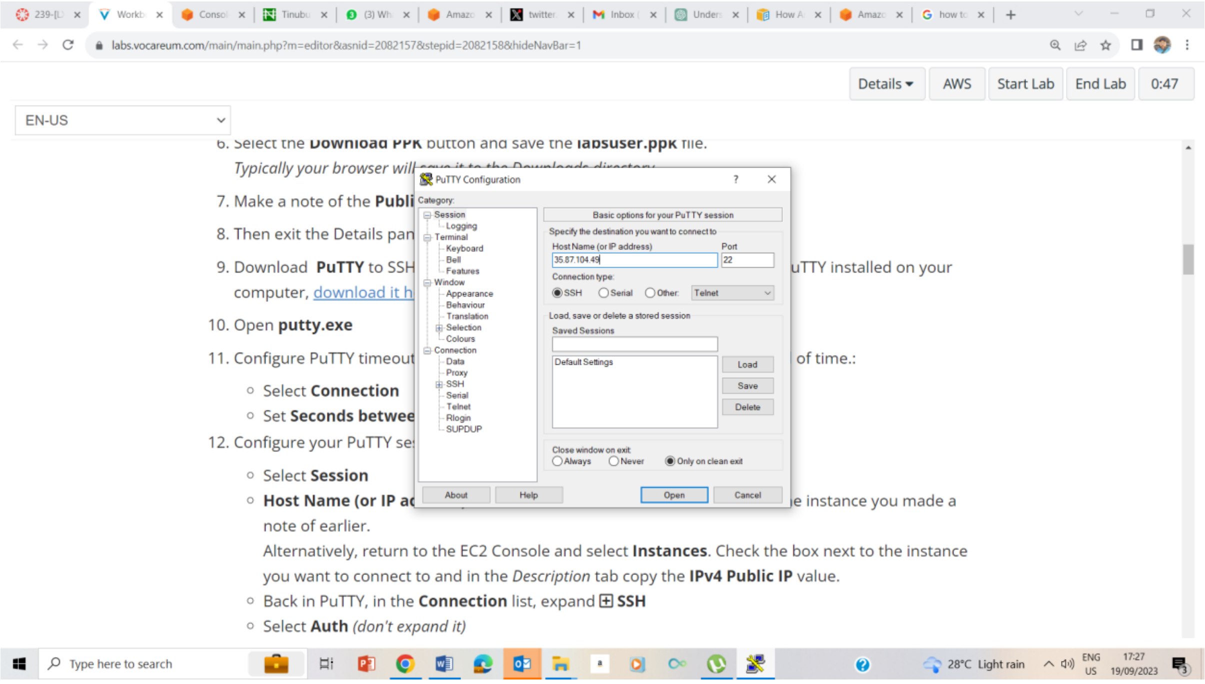
Logical name of remote host (e.g. for SSH key lookup):

- Set **Seconds between keepalives** to 30

12. Configure your PuTTY session:

labs.vocareum.com/main/main.php?m=editor&asnid=2082157&stepid=2082158&hideNavBar=1
Details
AWS
Start Lab
End Lab
0:49
EN-US
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Serial
Telnet
Rlogin
SUPDUP
About
Help
Open
Cancel
Downloads
Manage
App Tools
Quick access
Desktop
Downloads
Documents
Pictures
AWS LABS
Screenshots
Dropbox
OneDrive
This PC
Network
Linux
labsuser (3).ppk
putty (3)
putty (2)
labsuser (2).ppk
880 items
1 item selected 1.57 MB
Type here to search
28°C Light rain
17:25
19/09/2023

9-11 Downloaded putty, ran the putty.exe file, set connection seconds between keepalive to 30.


labs.vocareum.com/main/main.php?m=editor&asnid=2082157&stepid=2082158&hideNavBar=1
Details ▾
AWS
Start Lab
End Lab
0:47
EN-US
PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Serial
Telnet
Rlogin
SUPDUP
Basic options for your PuTTY session
Load
Save
Delete
About
Help
Open
Cancel
Type here to search
28°C Light rain
ENG US
17:27
19/09/2023

6. Select the **Download PPK** button and save the **labsuser.ppk** file.
*Typically your browser will*

7. Make a note of the **Publi**

8. Then exit the Details pan

9. Download **PuTTY** to SSH … uTTY installed on your computer, download it h

10. Open **putty.exe**

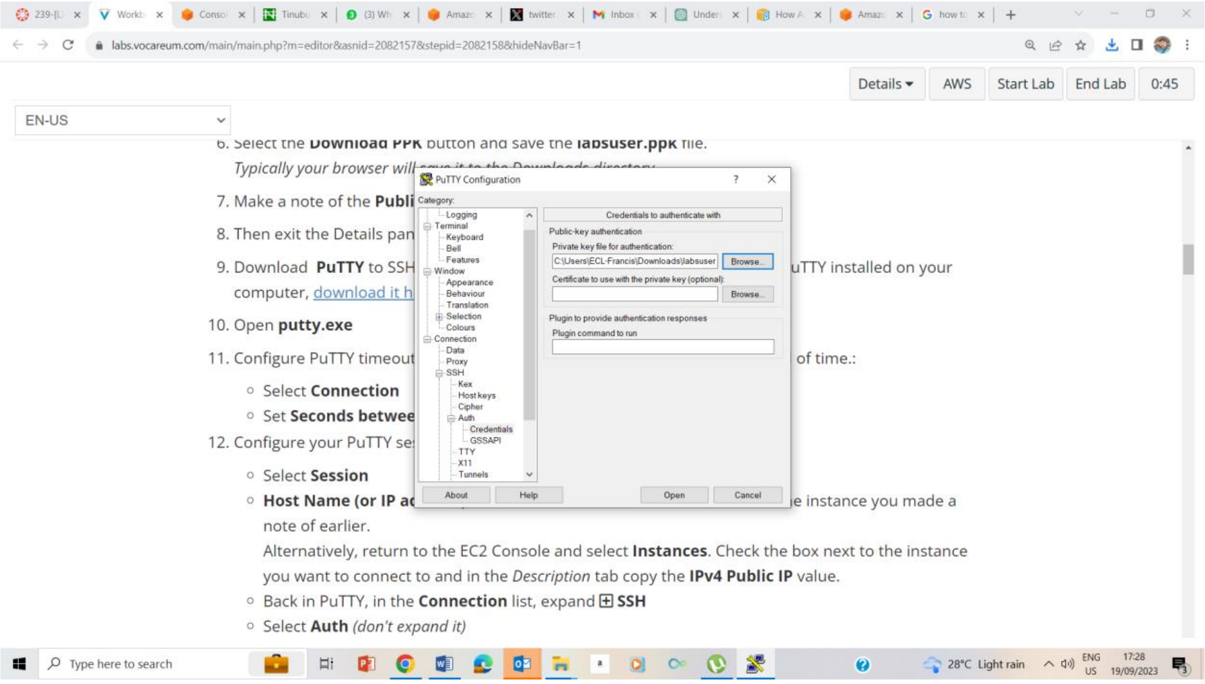
11. Configure PuTTY timeout … of time.:

   - Select **Connection**
   - Set **Seconds betwee**

12. Configure your PuTTY se

   - Select **Session**
   - **Host Name (or IP ac** … e instance you made a note of earlier.
     Alternatively, return to the EC2 Console and select **Instances**. Check the box next to the instance you want to connect to and in the *Description* tab copy the **IPv4 Public IP** value.
   - Back in PuTTY, in the **Connection** list, expand ⊞ **SSH**
   - Select **Auth** *(don't expand it)*

Specify the destination you want to connect to
Host Name (or IP address): 35.87.104.49
Port: 22
Connection type: ● SSH ○ Serial ○ Other: Telnet
Load, save or delete a stored session
Saved Sessions
Default Settings
Close window on exit: ○ Always ○ Never ● Only on clean exit


labs.vocareum.com/main/main.php?m=editor&asnid=2082157&stepid=2082158&hideNavBar=1
Details ▾
AWS
Start Lab
End Lab
0:45
EN-US
PuTTY Configuration
Category:
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Kex
Host keys
Cipher
Auth
Credentials
GSSAPI
TTY
X11
Tunnels
Credentials to authenticate with
Browse...
Browse...
About
Help
Open
Cancel
Type here to search
28°C Light rain
ENG US
17:28
19/09/2023

6. Select the **Download PPK** button and save the **labsuser.ppk** file.
*Typically your browser will*

7. Make a note of the **Publi**

8. Then exit the Details pan

9. Download **PuTTY** to SSH … uTTY installed on your computer, download it h

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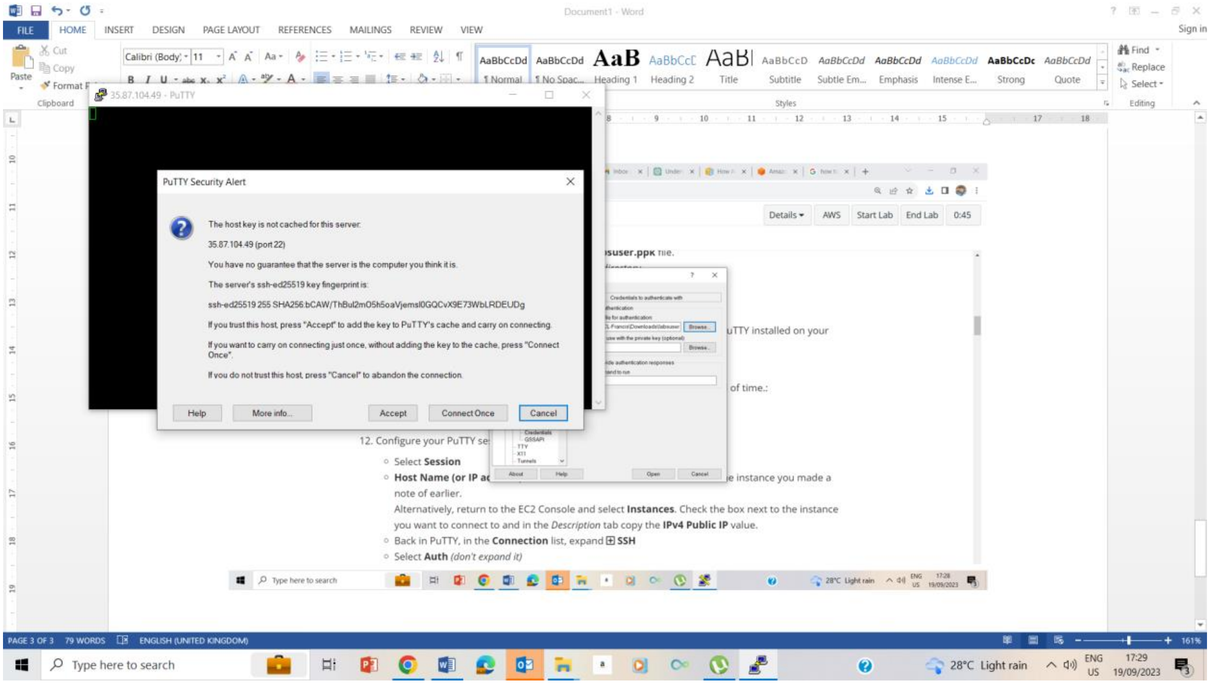
   - Select **Session**
   - **Host Name (or IP ac** … e instance you made a note of earlier.
     Alternatively, return to the EC2 Console and select **Instances**. Check the box next to the instance you want to connect to and in the *Description* tab copy the **IPv4 Public IP** value.
   - Back in PuTTY, in the **Connection** list, expand ⊞ **SSH**
   - Select **Auth** *(don't expand it)*

Public-key authentication
Private key file for authentication: C:\Users\ECL-Francis\Downloads\labsuser
Certificate to use with the private key (optional):
Plugin to provide authentication responses
Plugin command to run



Document1 - Word
FILE HOME INSERT DESIGN PAGE LAYOUT REFERENCES MAILINGS REVIEW VIEW
35.87.104.49 - PuTTY
Details AWS Start Lab End Lab 0:45
PAGE 3 OF 3 79 WORDS ENGLISH (UNITED KINGDOM)
Type here to search
28°C Light rain
17:29
19/09/2023

PuTTY Security Alert

The host key is not cached for this server:

35.87.104.49 (port 22)

You have no guarantee that the server is the computer you think it is.

The server's ssh-ed25519 key fingerprint is:

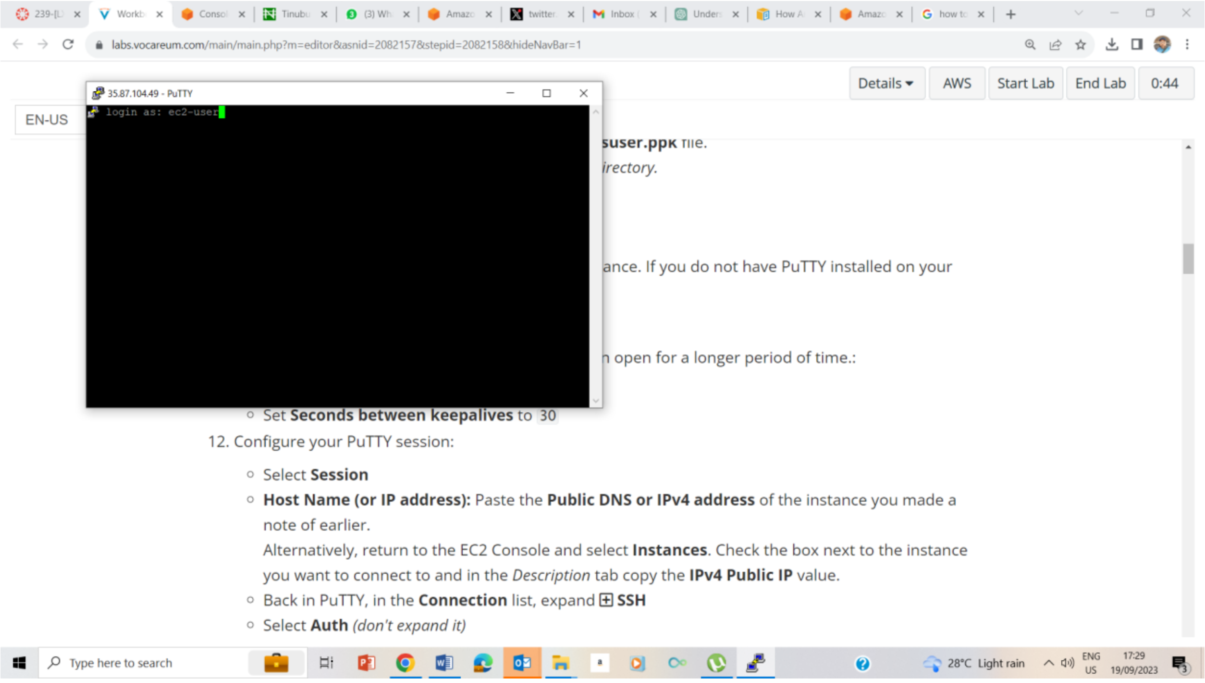
ssh-ed25519 255 SHA256:bCAW/ThBul2mO5h5oaVjemsl0GQCvX9E73WbLRDEUDg

If you trust this host, press "Accept" to add the key to PuTTY's cache and carry on connecting.

If you want to carry on connecting just once, without adding the key to the cache, press "Connect Once".

If you do not trust this host, press "Cancel" to abandon the connection.

Help
More info...
Accept
Connect Once
Cancel



labs.vocareum.com/main/main.php?m=editor&asnid=2082157&stepid=2082158&hideNavBar=1
Details AWS Start Lab End Lab 0:44
EN-US
35.87.104.49 - PuTTY
Type here to search
28°C Light rain
17:29
19/09/2023

```
login as: ec2-user
```

suser.ppk file.

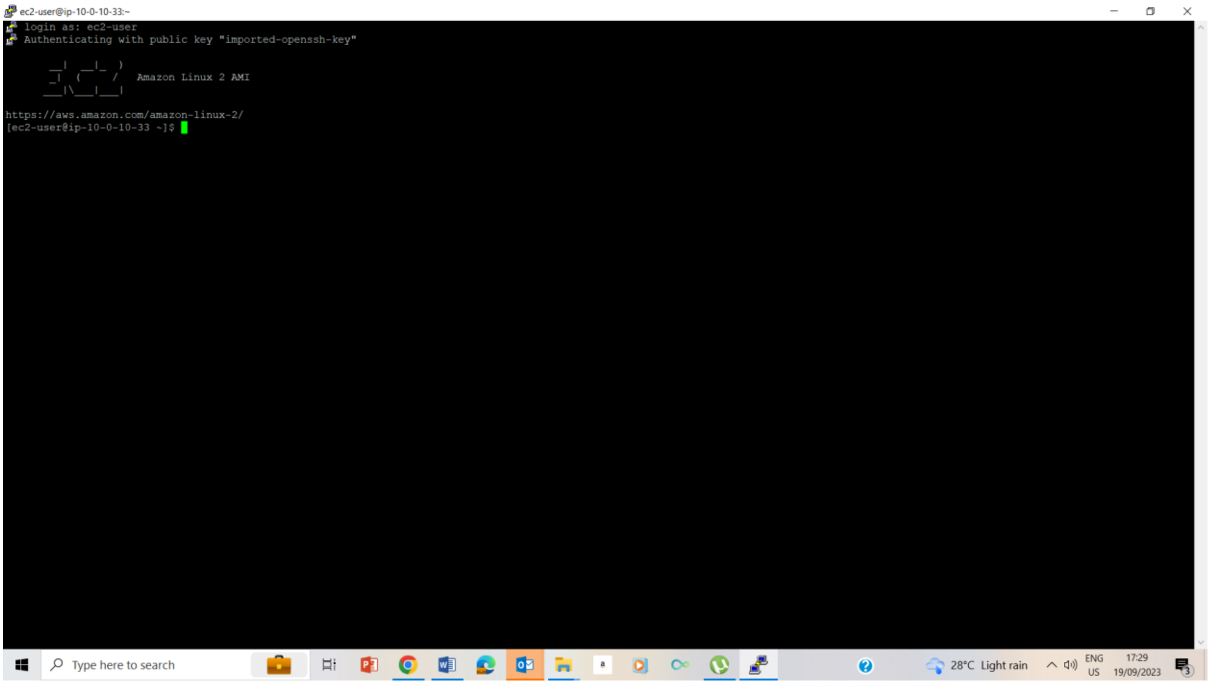
irectory.

ance. If you do not have PuTTY installed on your

n open for a longer period of time.:

- Set **Seconds between keepalives** to 30

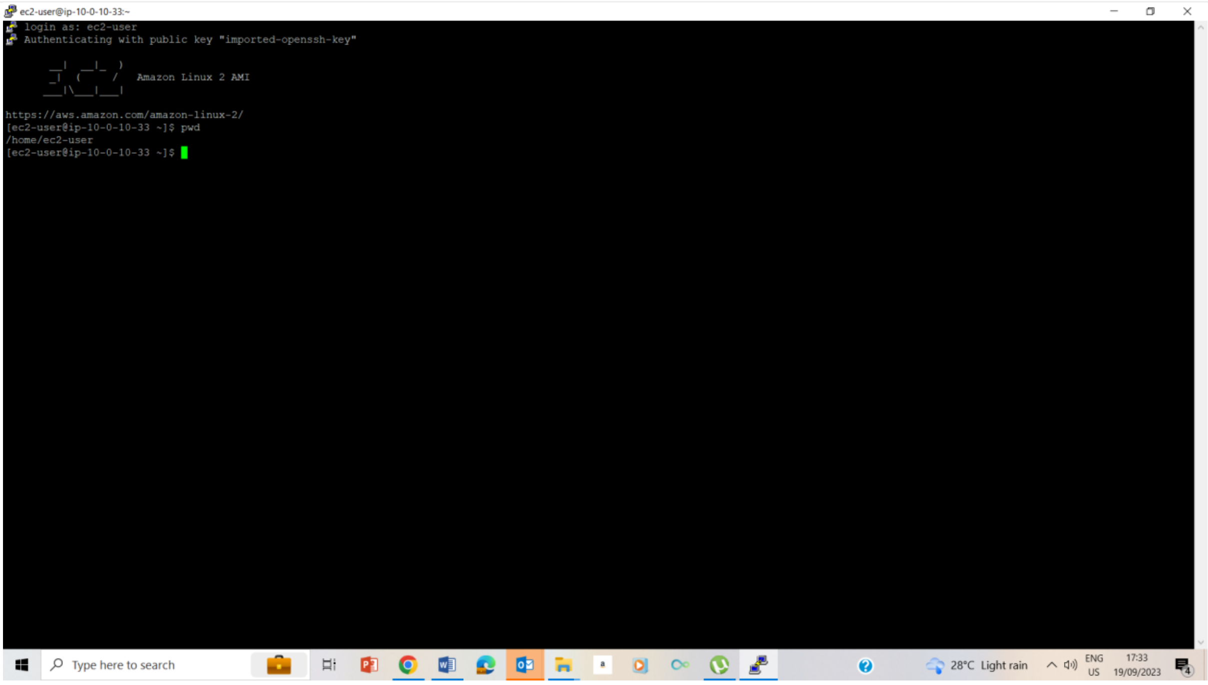
12. Configure your PuTTY session:
    - Select **Session**
    - **Host Name (or IP address):** Paste the **Public DNS or IPv4 address** of the instance you made a note of earlier.
      Alternatively, return to the EC2 Console and select **Instances**. Check the box next to the instance you want to connect to and in the *Description* tab copy the **IPv4 Public IP** value.
    - Back in PuTTY, in the **Connection** list, expand ⊞ **SSH**
    - Select **Auth** *(don't expand it)*


ec2-user@ip-10-0-10-33:~
Type here to search
28°C Light rain
ENG
US
17:29
19/09/2023

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-10-33 ~]$
```

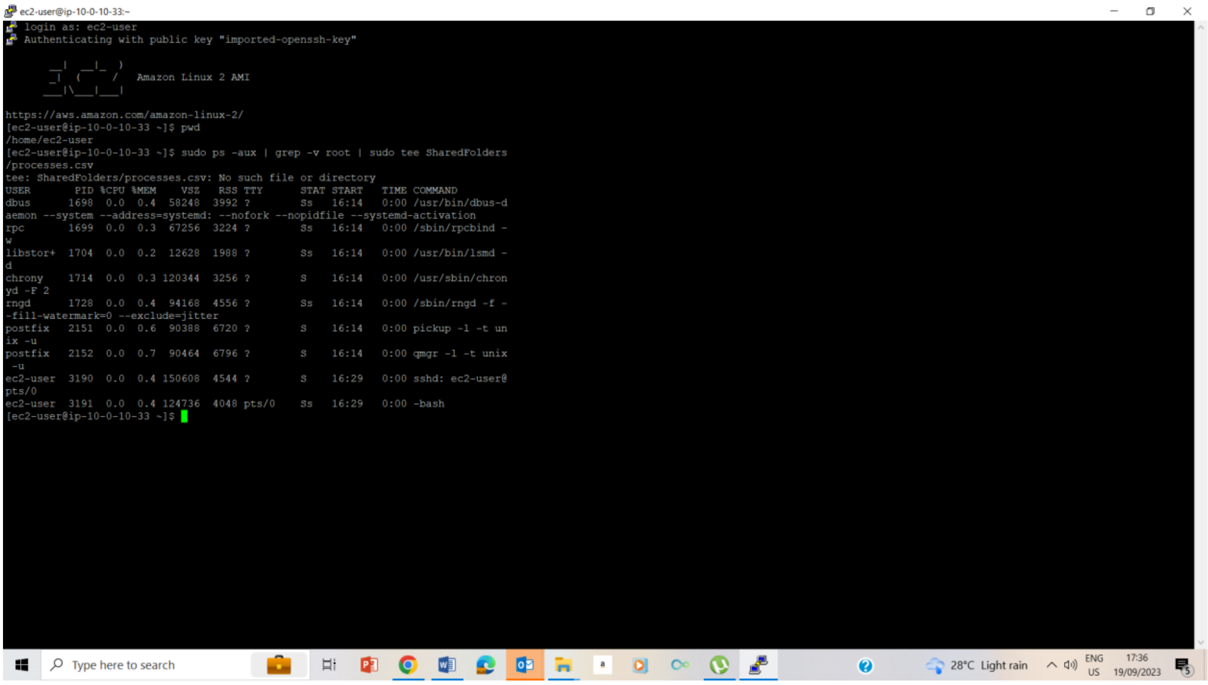
12-15 Configuring the putty

# Task 2: Exercise - Create List of Processes


ec2-user@ip-10-0-10-33:~
Type here to search
28°C Light rain
ENG
US
17:33
19/09/2023

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-10-33 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-33 ~]$
```

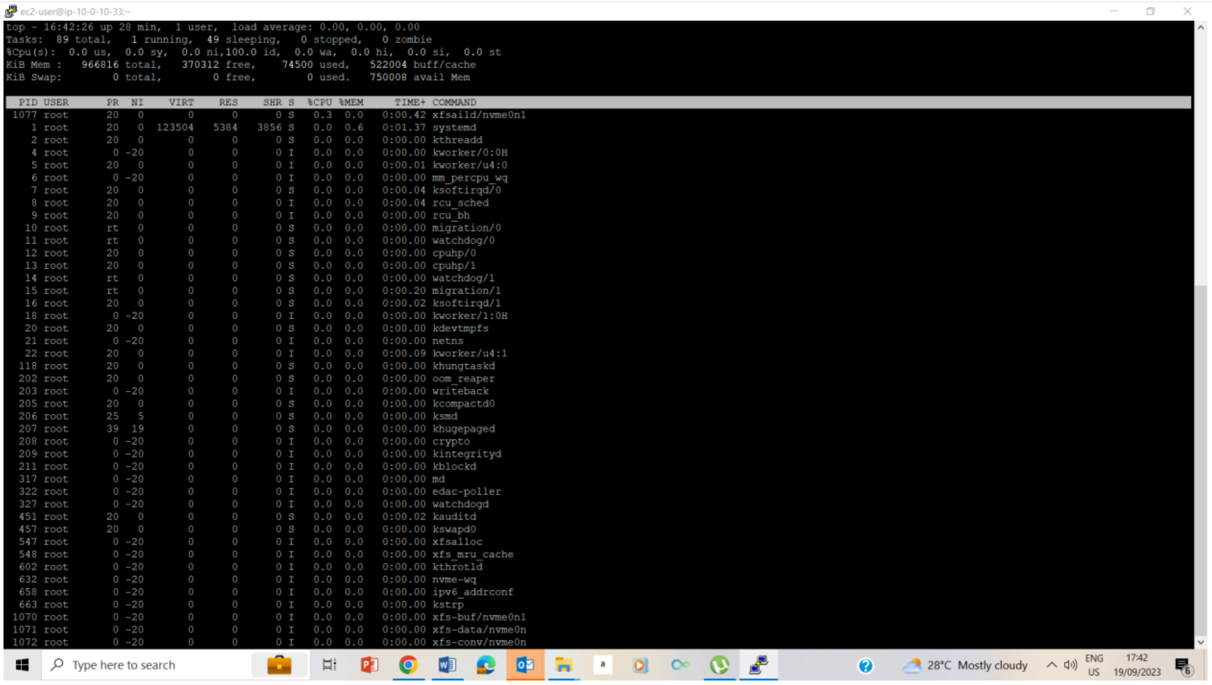
24. validating that  I am on the /home/ec2-user/companyA  folder by typing pwd and enter



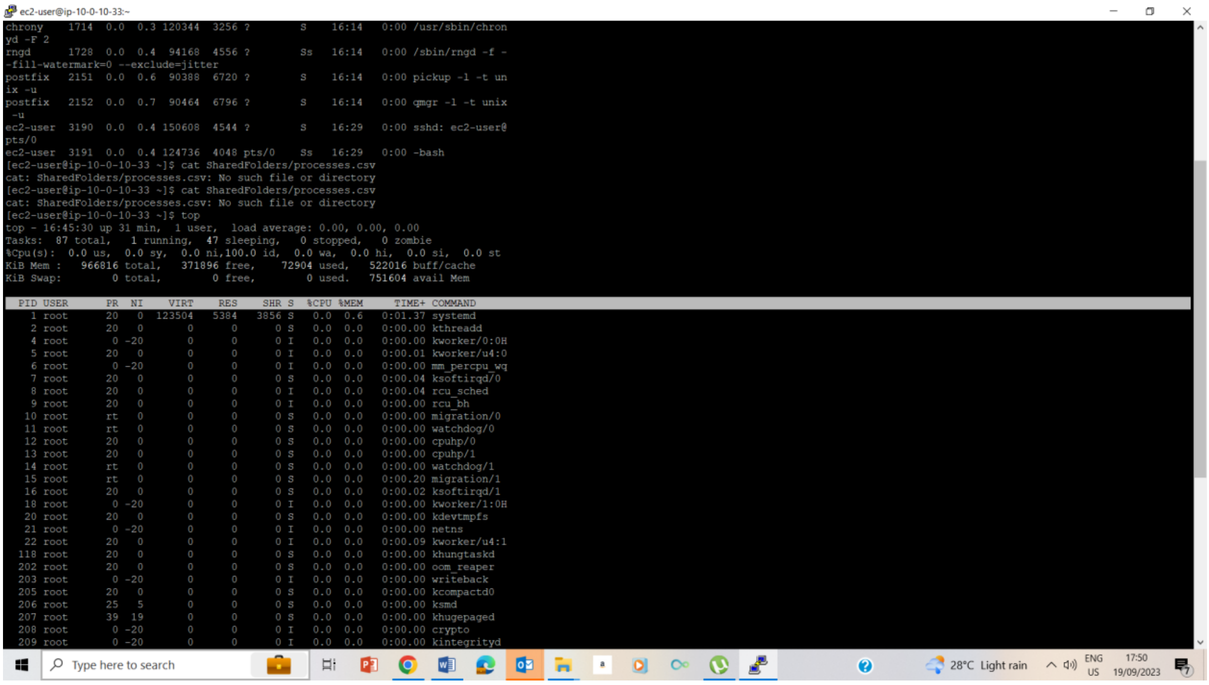
```
login as: ec2-user
Authenticating with public key "imported-openssh-key"

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-10-33 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-33 ~]$ sudo ps -aux | grep -v root | sudo tee SharedFolders
/processes.csv
tee: SharedFolders/processes.csv: No such file or directory
USER       PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
dbus      1698  0.0  0.4  58248  3992 ?        Ss   16:14   0:00 /usr/bin/dbus-d
aemon --system --address=systemd: --nofork --nopidfile --systemd-activation
rpc       1699  0.0  0.3  67256  3224 ?        Ss   16:14   0:00 /sbin/rpcbind -
w
libstor+  1704  0.0  0.2  12628  1988 ?        Ss   16:14   0:00 /usr/bin/lsmd -
d
chrony    1714  0.0  0.3 120344  3256 ?        S    16:14   0:00 /usr/sbin/chron
yd -F 2
rngd      1728  0.0  0.4  94168  4556 ?        Ss   16:14   0:00 /sbin/rngd -f -
-fill-watermark=0 --exclude=jitter
postfix   2151  0.0  0.6  90388  6720 ?        S    16:14   0:00 pickup -l -t un
ix -u
postfix   2152  0.0  0.7  90464  6796 ?        S    16:14   0:00 qmgr -l -t unix
 -u
ec2-user  3190  0.0  0.4 150608  4544 ?        S    16:29   0:00 sshd: ec2-user@
pts/0
ec2-user  3191  0.0  0.4 124736  4048 pts/0    Ss   16:29   0:00 -bash
[ec2-user@ip-10-0-10-33 ~]$ 
```

25. View all processes running on the machine and filter out the word root by typing `sudo ps -aux | grep -v root | sudo tee SharedFolders/processes.csv` and pressing ENTER

# Task 3: Exercise - List the processes using the top command

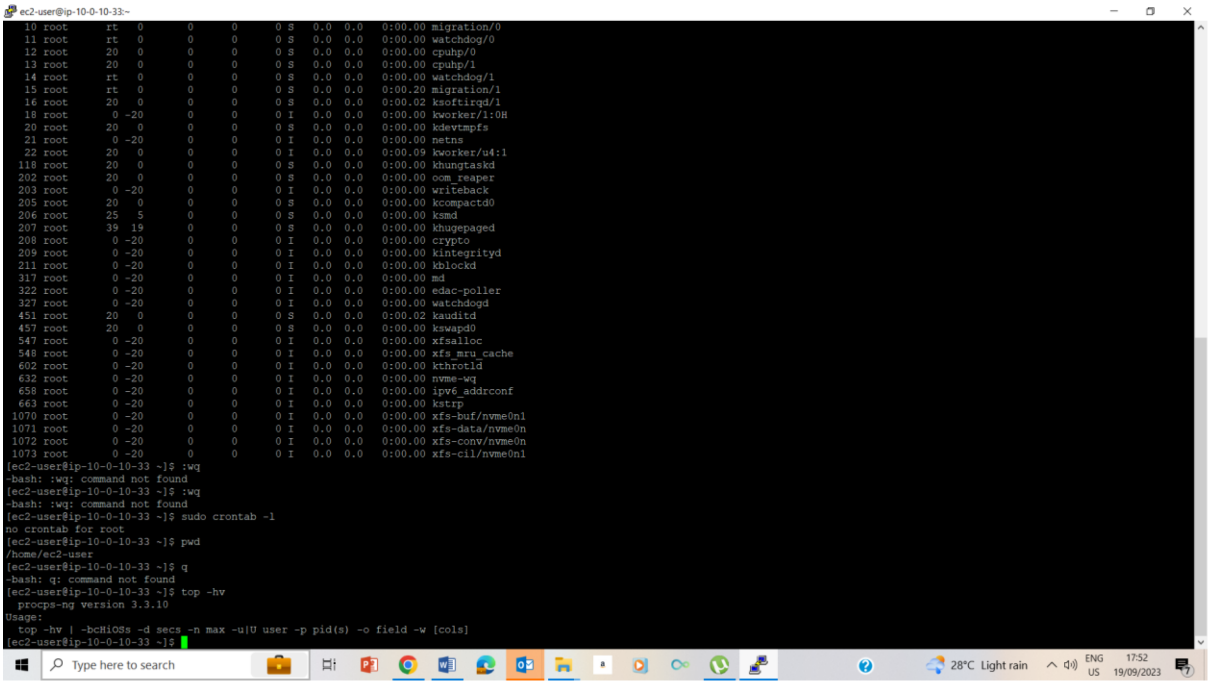


```
top - 16:42:26 up 28 min,  1 user,  load average: 0.00, 0.00, 0.00
Tasks:  89 total,   1 running,  49 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni,100.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
KiB Mem :   966816 total,   370312 free,    74500 used,   522004 buff/cache
KiB Swap:        0 total,        0 free,        0 used.   750008 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU %MEM     TIME+ COMMAND
 1077 root      20   0       0      0      0 S   0.3  0.0   0:00.42 xfsaild/nvme0n1
    1 root      20   0  123504   5384   3856 S   0.0  0.6   0:01.37 systemd
    2 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kthreadd
    4 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/0:0H
    5 root      20   0       0      0      0 I   0.0  0.0   0:00.01 kworker/u4:0
    6 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 mm_percpu_wq
    7 root      20   0       0      0      0 S   0.0  0.0   0:00.04 ksoftirqd/0
    8 root      20   0       0      0      0 I   0.0  0.0   0:00.04 rcu_sched
    9 root      20   0       0      0      0 I   0.0  0.0   0:00.00 rcu_bh
   10 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 migration/0
   11 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 watchdog/0
   12 root      20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/0
   13 root      20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/1
   14 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 watchdog/1
   15 root      rt   0       0      0      0 S   0.0  0.0   0:00.20 migration/1
   16 root      20   0       0      0      0 S   0.0  0.0   0:00.02 ksoftirqd/1
   18 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/1:0H
   20 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kdevtmpfs
   21 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 netns
   22 root      20   0       0      0      0 I   0.0  0.0   0:00.09 kworker/u4:1
  118 root      20   0       0      0      0 S   0.0  0.0   0:00.00 khungtaskd
  202 root      20   0       0      0      0 S   0.0  0.0   0:00.00 oom_reaper
  203 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 writeback
  205 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kcompactd0
  206 root      25   5       0      0      0 S   0.0  0.0   0:00.00 ksmd
  207 root      39  19       0      0      0 S   0.0  0.0   0:00.00 khugepaged
  208 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 crypto
  209 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kintegrityd
  211 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kblockd
  317 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 md
  322 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 edac-poller
  327 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 watchdogd
  451 root      20   0       0      0      0 S   0.0  0.0   0:00.02 kauditd
  457 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kswapd0
  547 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfsalloc
  548 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs_mru_cache
  602 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kthrotld
  632 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 nvme-wq
  658 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 ipv6_addrconf
  663 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kstrp
 1070 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-buf/nvme0n1
 1071 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-data/nvme0n
 1072 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-conv/nvme0n
```



```
chrony    1714  0.0  0.3 120344  3256 ?        S    16:14   0:00 /usr/sbin/chron
yd -F 2
rngd      1728  0.0  0.4  94168  4556 ?        Ss   16:14   0:00 /sbin/rngd -f -
-fill-watermark=0 --exclude=jitter
postfix   2151  0.0  0.6  90388  6720 ?        S    16:14   0:00 pickup -l -t un
ix -u
postfix   2152  0.0  0.7  90464  6796 ?        S    16:14   0:00 qmgr -l -t unix
 -u
ec2-user  3190  0.0  0.4 150608  4544 ?        S    16:29   0:00 sshd: ec2-user@
pts/0
ec2-user  3191  0.0  0.4 124736  4048 pts/0    Ss   16:29   0:00 -bash
[ec2-user@ip-10-0-10-33 ~]$ cat SharedFolders/processes.csv
cat: SharedFolders/processes.csv: No such file or directory
[ec2-user@ip-10-0-10-33 ~]$ cat SharedFolders/processes.csv
cat: SharedFolders/processes.csv: No such file or directory
[ec2-user@ip-10-0-10-33 ~]$ top
top - 16:45:30 up 31 min,  1 user,  load average: 0.00, 0.00, 0.00
Tasks:  87 total,   1 running,  47 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni,100.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
KiB Mem :   966816 total,   371896 free,    72904 used,   522016 buff/cache
KiB Swap:        0 total,        0 free,        0 used.   751604 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU %MEM     TIME+ COMMAND
    1 root      20   0  123504   5384   3856 S   0.0  0.6   0:01.37 systemd
    2 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kthreadd
    4 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/0:0H
    5 root      20   0       0      0      0 I   0.0  0.0   0:00.01 kworker/u4:0
    6 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 mm_percpu_wq
    7 root      20   0       0      0      0 S   0.0  0.0   0:00.04 ksoftirqd/0
    8 root      20   0       0      0      0 I   0.0  0.0   0:00.04 rcu_sched
    9 root      20   0       0      0      0 I   0.0  0.0   0:00.00 rcu_bh
   10 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 migration/0
   11 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 watchdog/0
   12 root      20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/0
   13 root      20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/1
   14 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 watchdog/1
   15 root      rt   0       0      0      0 S   0.0  0.0   0:00.20 migration/1
   16 root      20   0       0      0      0 S   0.0  0.0   0:00.02 ksoftirqd/1
   18 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/1:0H
   20 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kdevtmpfs
   21 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 netns
   22 root      20   0       0      0      0 I   0.0  0.0   0:00.09 kworker/u4:1
  118 root      20   0       0      0      0 S   0.0  0.0   0:00.00 khungtaskd
  202 root      20   0       0      0      0 S   0.0  0.0   0:00.00 oom_reaper
  203 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 writeback
  205 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kcompactd0
  206 root      25   5       0      0      0 S   0.0  0.0   0:00.00 ksmd
  207 root      39  19       0      0      0 S   0.0  0.0   0:00.00 khugepaged
  208 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 crypto
  209 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kintegrityd
```

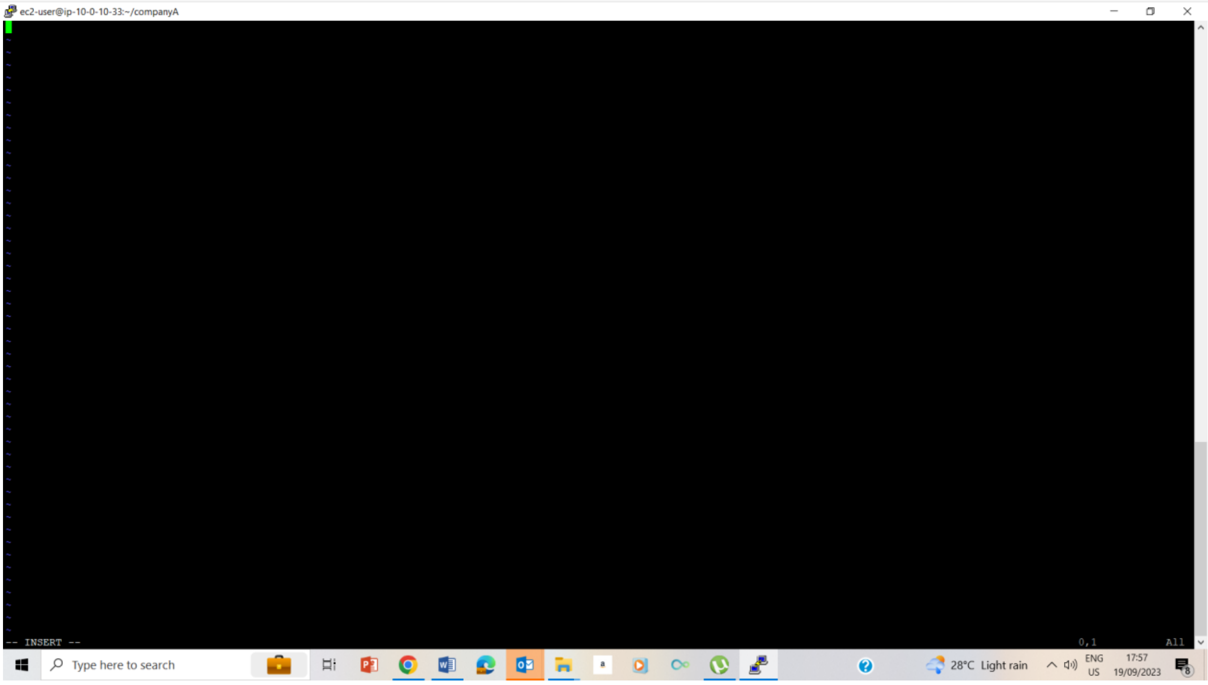
27-28. Running of the top command and we note that we have 1 task running.



```
   10 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 migration/0
   11 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 watchdog/0
   12 root      20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/0
   13 root      20   0       0      0      0 S   0.0  0.0   0:00.00 cpuhp/1
   14 root      rt   0       0      0      0 S   0.0  0.0   0:00.00 watchdog/1
   15 root      rt   0       0      0      0 S   0.0  0.0   0:00.20 migration/1
   16 root      20   0       0      0      0 S   0.0  0.0   0:00.02 ksoftirqd/1
   18 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kworker/1:0H
   20 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kdevtmpfs
   21 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 netns
   22 root      20   0       0      0      0 I   0.0  0.0   0:00.09 kworker/u4:1
  118 root      20   0       0      0      0 S   0.0  0.0   0:00.00 khungtaskd
  202 root      20   0       0      0      0 S   0.0  0.0   0:00.00 oom_reaper
  203 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 writeback
  205 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kcompactd0
  206 root      25   5       0      0      0 S   0.0  0.0   0:00.00 ksmd
  207 root      39  19       0      0      0 S   0.0  0.0   0:00.00 khugepaged
  208 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 crypto
  209 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kintegrityd
  211 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kblockd
  317 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 md
  322 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 edac-poller
  327 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 watchdogd
  451 root      20   0       0      0      0 S   0.0  0.0   0:00.02 kauditd
  457 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kswapd0
  547 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfsalloc
  548 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs_mru_cache
  602 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kthrotld
  632 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 nvme-wq
  658 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 ipv6_addrconf
  663 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kstrp
 1070 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-buf/nvme0n1
 1071 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-data/nvme0n
 1072 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-conv/nvme0n
 1073 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-cil/nvme0n1
[ec2-user@ip-10-0-10-33 ~]$ :wq
-bash: :wq: command not found
[ec2-user@ip-10-0-10-33 ~]$ :wq
-bash: :wq: command not found
[ec2-user@ip-10-0-10-33 ~]$ sudo crontab -l
no crontab for root
[ec2-user@ip-10-0-10-33 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-33 ~]$ q
-bash: q: command not found
[ec2-user@ip-10-0-10-33 ~]$ top -hv
  procps-ng version 3.3.10
Usage:
  top -hv | -bcHiOSs -d secs -n max -u|U user -p pid(s) -o field -w [cols]
[ec2-user@ip-10-0-10-33 ~]$
```

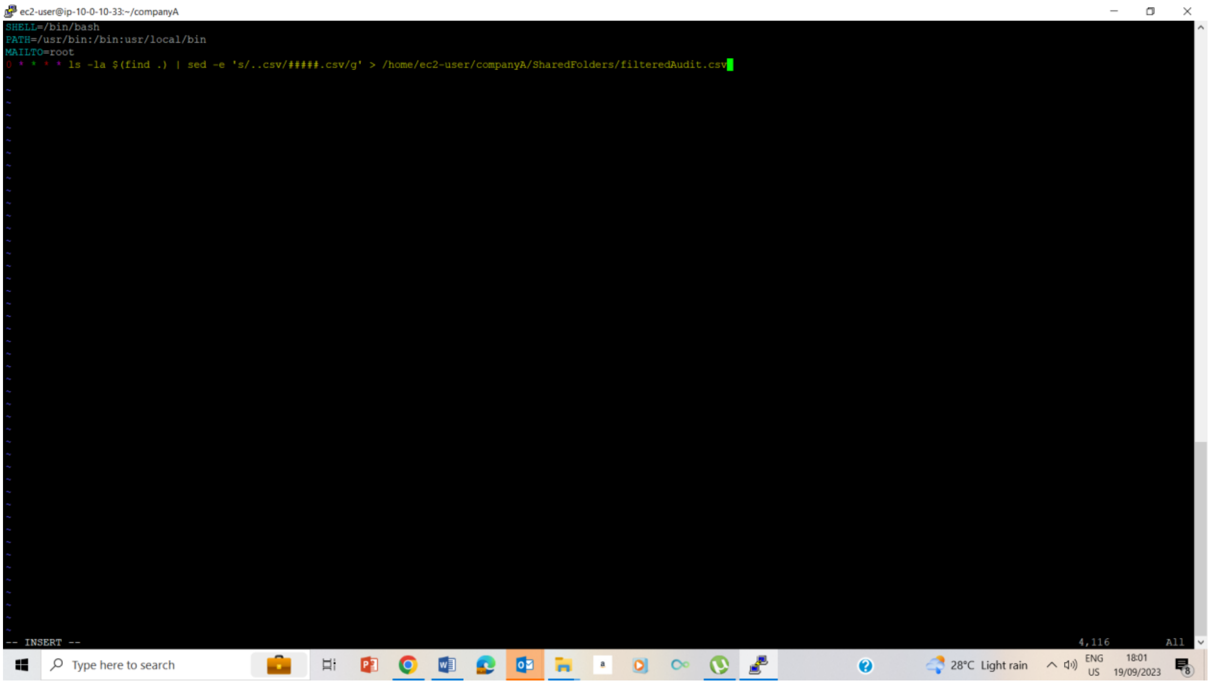
30. I used top –hv to find usage and version option

# Task 4: Exercise - Create a Cron Job



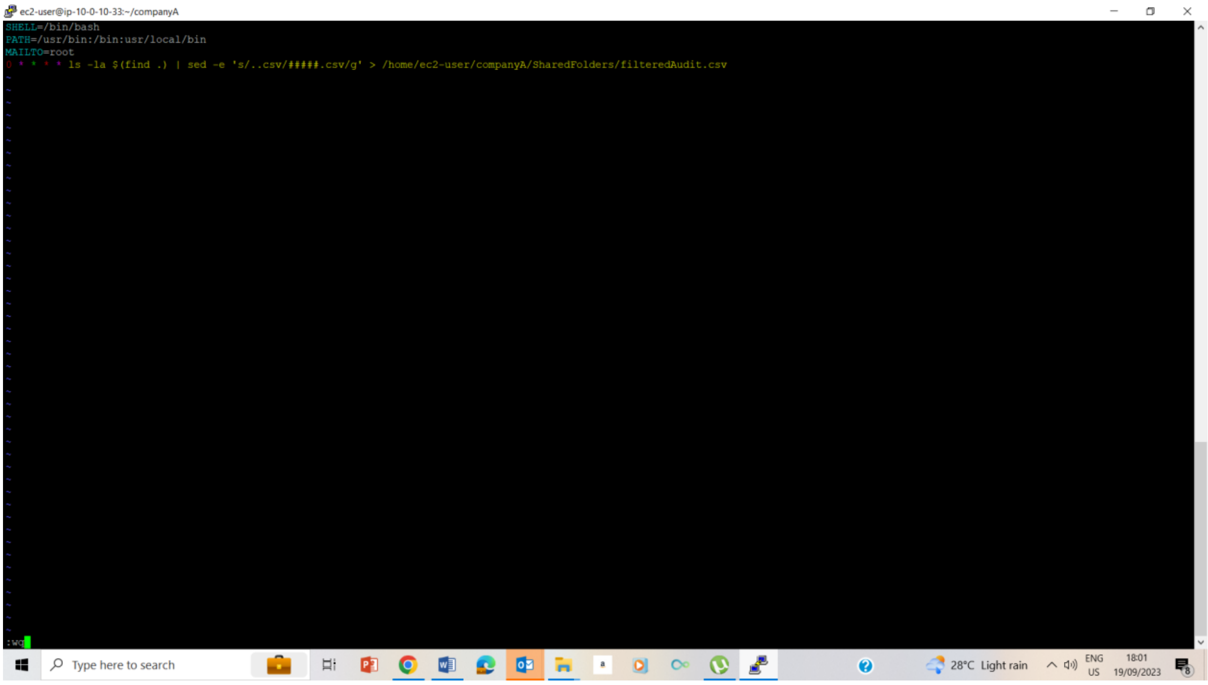
```
-- INSERT --                                                    0,1           All
```

31-33. Validated that I was on the /home/ec2 folder with pwd; created a cron job that edits file with sudo crontab –e and used I to inter insert mode.



```
SHELL=/bin/bash
PATH=/usr/bin:/bin:usr/local/bin
MAILTO=root
0 * * * * ls -la $(find .) | sed -e 's/..csv/#####.csv/g' > /home/ec2-user/companyA/SharedFolders/filteredAudit.csv
-- INSERT --                                                    4,116         All
```

34-37. Followed the instruction on writing on the insert mode.



```
SHELL=/bin/bash
PATH=/usr/bin:/bin:usr/local/bin
MAILTO=root
0 * * * * ls -la $(find .) | sed -e 's/..csv/#####.csv/g' > /home/ec2-user/companyA/SharedFolders/filteredAudit.csv
~
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~
~
:wq
```
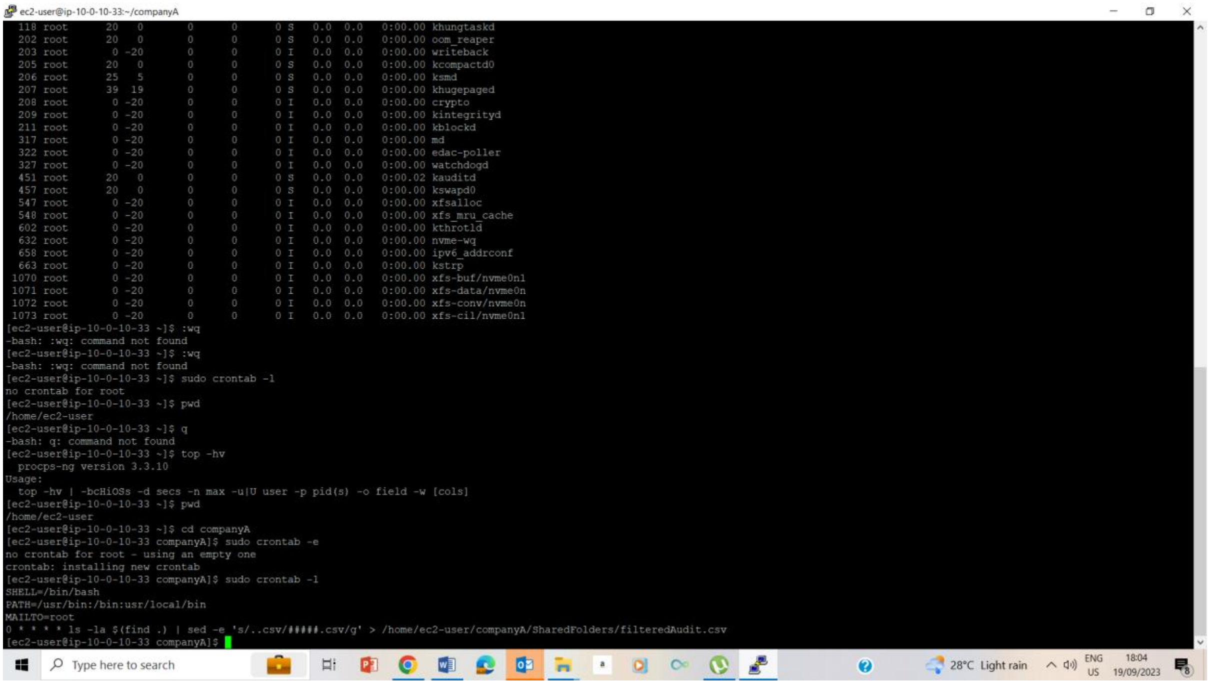
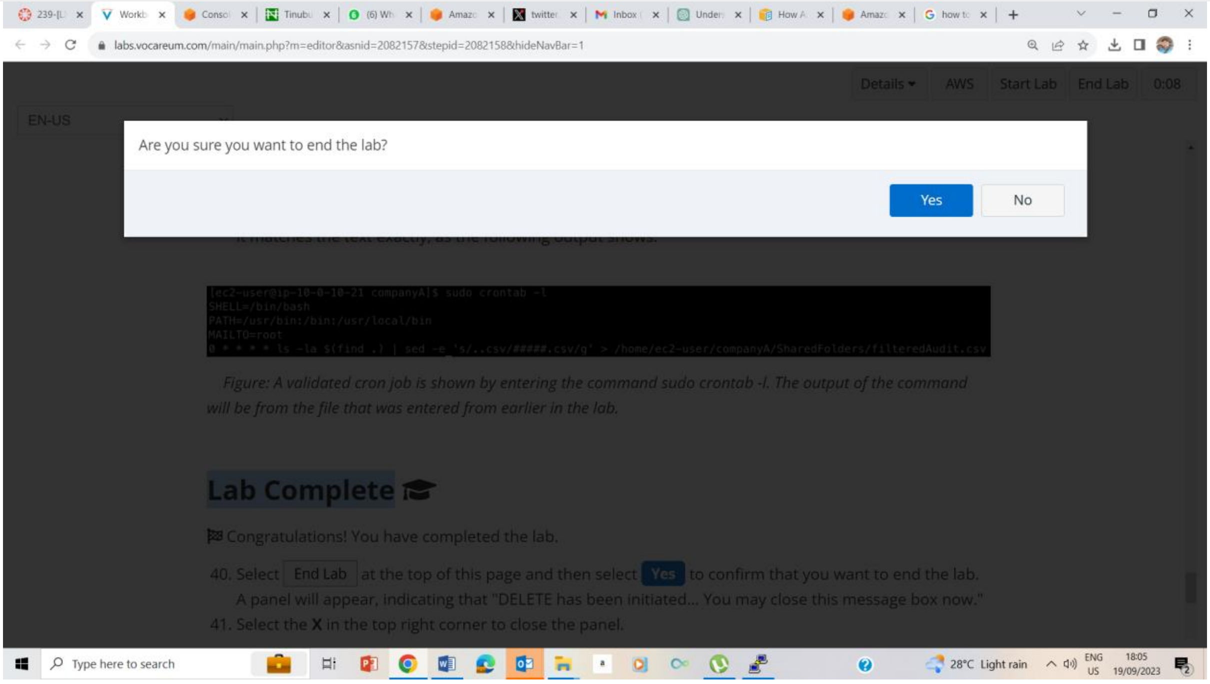

38. typed esc and :wq to save and exit



```
  118 root      20   0       0      0      0 S   0.0  0.0   0:00.00 khungtaskd
  202 root      20   0       0      0      0 S   0.0  0.0   0:00.00 oom_reaper
  203 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 writeback
  205 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kcompactd0
  206 root      25   5       0      0      0 S   0.0  0.0   0:00.00 ksmd
  207 root      39  19       0      0      0 S   0.0  0.0   0:00.00 khugepaged
  208 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 crypto
  209 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kintegrityd
  211 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kblockd
  317 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 md
  322 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 edac-poller
  327 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 watchdogd
  451 root      20   0       0      0      0 S   0.0  0.0   0:00.02 kauditd
  457 root      20   0       0      0      0 S   0.0  0.0   0:00.00 kswapd0
  547 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfsalloc
  548 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs_mru_cache
  602 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kthrotld
  632 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 nvme-wq
  658 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 ipv6_addrconf
  663 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 kstrp
 1070 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-buf/nvme0n1
 1071 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-data/nvme0n
 1072 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-conv/nvme0n
 1073 root       0 -20       0      0      0 I   0.0  0.0   0:00.00 xfs-cil/nvme0n1
[ec2-user@ip-10-0-10-33 ~]$ :wq
-bash: :wq: command not found
[ec2-user@ip-10-0-10-33 ~]$ :wq
-bash: :wq: command not found
[ec2-user@ip-10-0-10-33 ~]$ sudo crontab -l
no crontab for root
[ec2-user@ip-10-0-10-33 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-33 ~]$ q
-bash: q: command not found
[ec2-user@ip-10-0-10-33 ~]$ top -hv
  procps-ng version 3.3.10
Usage:
  top -hv | -bcHiOSs -d secs -n max -u|U user -p pid(s) -o field -w [cols]
[ec2-user@ip-10-0-10-33 ~]$ pwd
/home/ec2-user
[ec2-user@ip-10-0-10-33 ~]$ cd companyA
[ec2-user@ip-10-0-10-33 companyA]$ sudo crontab -e
no crontab for root - using an empty one
crontab: installing new crontab
[ec2-user@ip-10-0-10-33 companyA]$ sudo crontab -l
SHELL=/bin/bash
PATH=/usr/bin:/bin:usr/local/bin
MAILTO=root
0 * * * * ls -la $(find .) | sed -e 's/..csv/#####.csv/g' > /home/ec2-user/companyA/SharedFolders/filteredAudit.csv
[ec2-user@ip-10-0-10-33 companyA]$
```

39. I used sudo crontab –l to validate my work.

# Lab Complete



labs.vocareum.com/main/main.php?m=editor&asnid=2082157&stepid=2082158&hideNavBar=1
Details ▾
AWS
Start Lab
End Lab
0:08
EN-US

Are you sure you want to end the lab?

Yes
No

```
[ec2-user@ip-10-0-10-21 companyA]$ sudo crontab -l
SHELL=/bin/bash
PATH=/usr/bin:/bin:/usr/local/bin
MAILTO=root
0 * * * * ls -la $(find .) | sed -e 's/..csv/#####.csv/g' > /home/ec2-user/companyA/SharedFolders/filteredAudit.csv
```

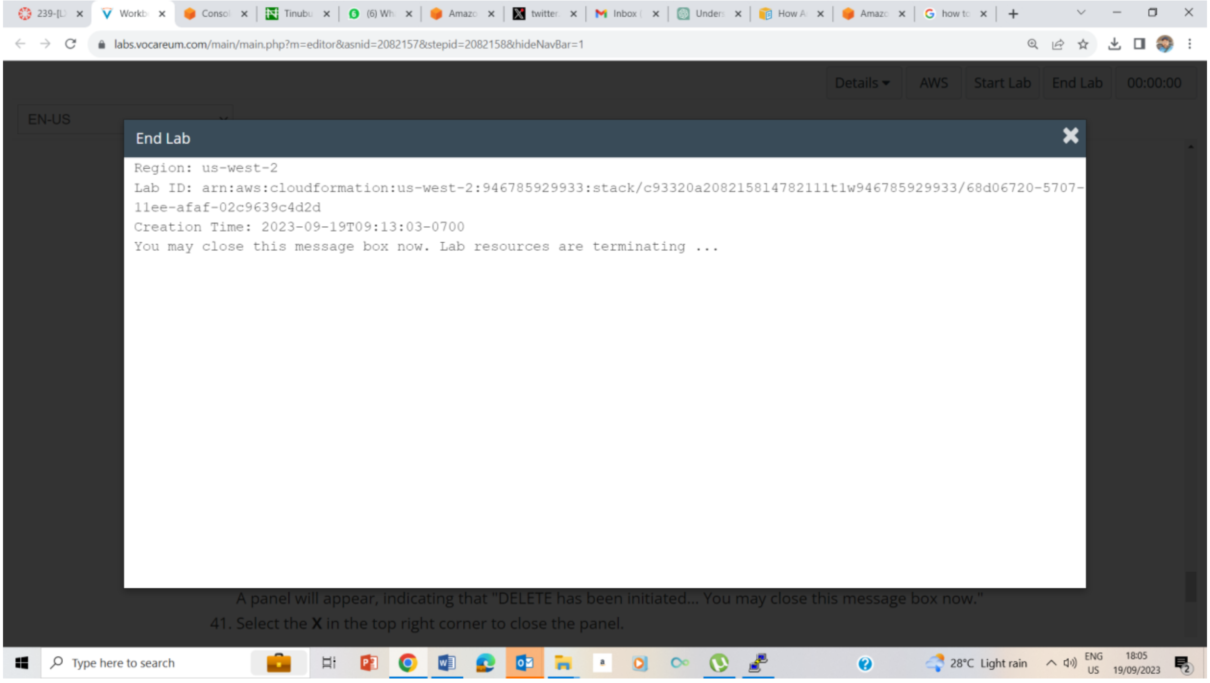
*Figure: A validated cron job is shown by entering the command sudo crontab -l. The output of the command will be from the file that was entered from earlier in the lab.*

Lab Complete

Congratulations! You have completed the lab.

40. Select End Lab at the top of this page and then select Yes to confirm that you want to end the lab.
    A panel will appear, indicating that "DELETE has been initiated... You may close this message box now."
41. Select the **X** in the top right corner to close the panel.

Type here to search
28°C Light rain
ENG
US
18:05
19/09/2023



labs.vocareum.com/main/main.php?m=editor&asnid=2082157&stepid=2082158&hideNavBar=1
Details ▾
AWS
Start Lab
End Lab
00:00:00
EN-US
End Lab

```
Region: us-west-2
Lab ID: arn:aws:cloudformation:us-west-2:946785929933:stack/c93320a2082158147821l1t1w946785929933/68d06720-5707-
11ee-afaf-02c9639c4d2d
Creation Time: 2023-09-19T09:13:03-0700
You may close this message box now. Lab resources are terminating ...
```

A panel will appear, indicating that "DELETE has been initiated... You may close this message box now."

41. Select the **X** in the top right corner to close the panel.

Type here to search
28°C Light rain
ENG
US
18:05
19/09/2023