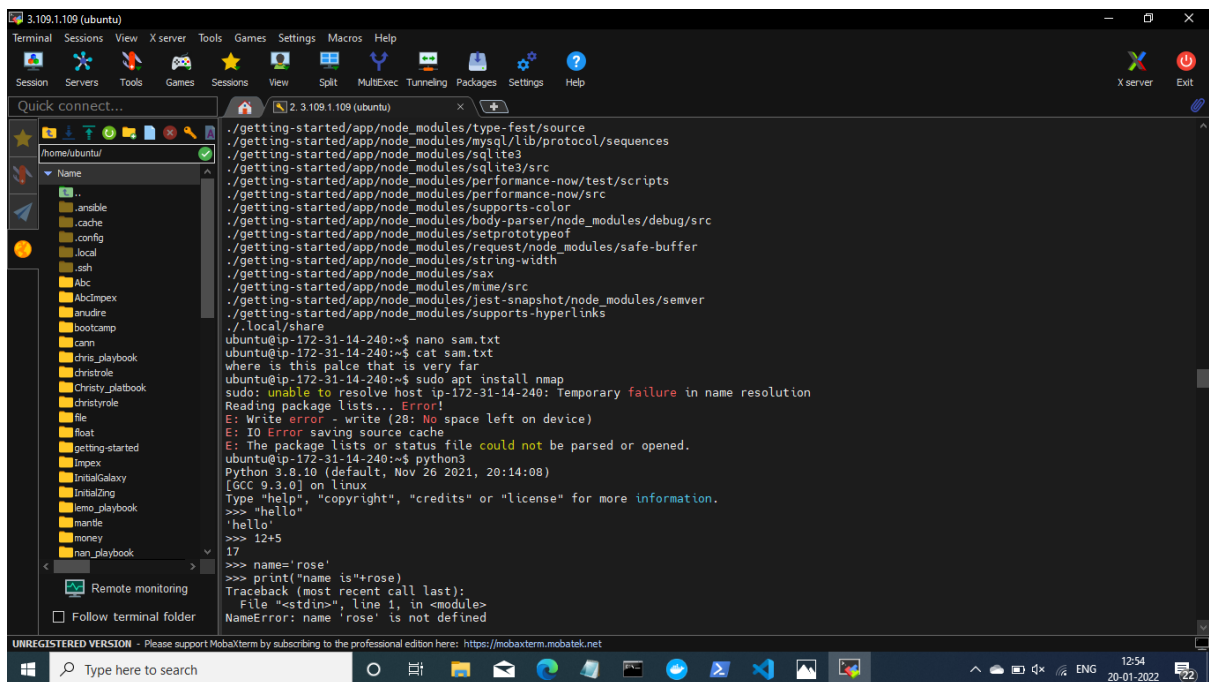
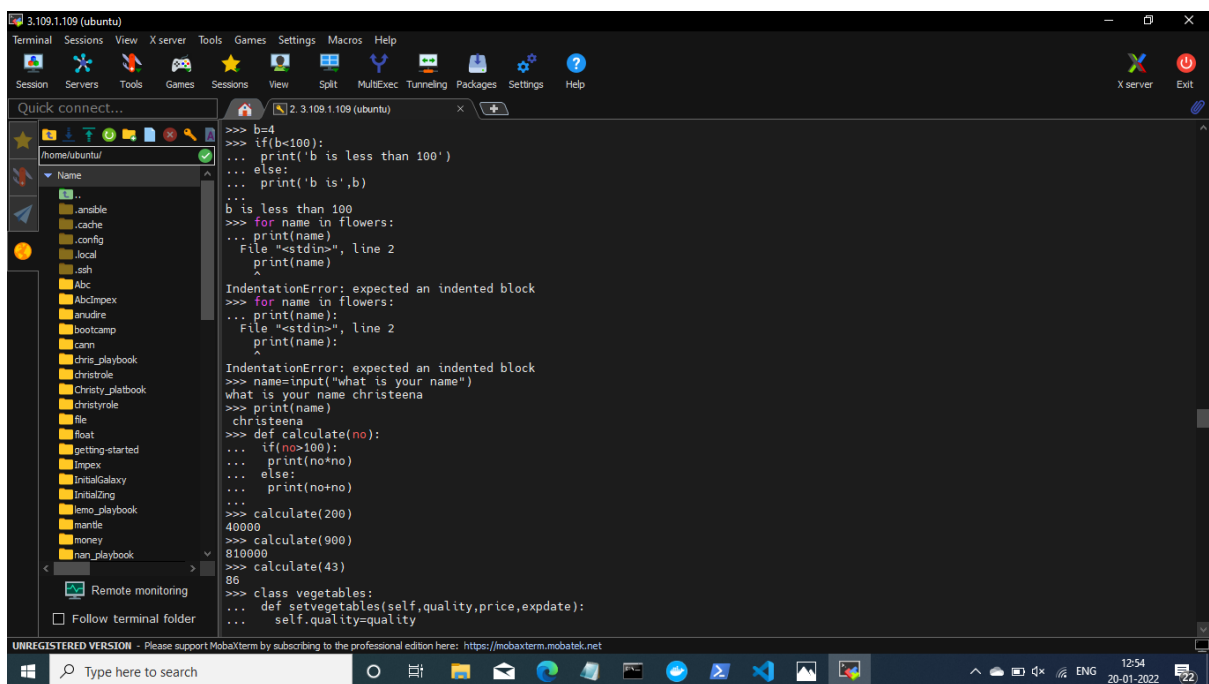


# Python



The screenshot shows the MobaXterm interface with a terminal window connected to a remote Ubuntu server (3.109.1.109). The terminal displays the following commands and output:

```
./getting-started/app/node_modules/type-fest/source
./getting-started/app/node_modules/mysql/lib/protocol/sequences
./getting-started/app/node_modules/sqlite3
./getting-started/app/node_modules/sqlite3/src
./getting-started/app/node_modules/performance-now/test/scripts
./getting-started/app/node_modules/performance-now/src
./getting-started/app/node_modules/supports-color
./getting-started/app/node_modules/body-parser/node_modules/debug/src
./getting-started/app/node_modules/setprototypeof
./getting-started/app/node_modules/request/node_modules/safe-buffer
./getting-started/app/node_modules/string-width
./getting-started/app/node_modules/sax
./getting-started/app/node_modules/mime/src
./getting-started/app/node_modules/jest-snapshot/node_modules/semver
./getting-started/app/node_modules/supports-hyperlinks
./local/share
ubuntu@ip-172-31-14-240:~$ nano sam.txt
ubuntu@ip-172-31-14-240:~$ cat sam.txt
where is this palace that is very far
ubuntu@ip-172-31-14-240:~$ sudo apt install nmap
sudo: unable to resolve host ip-172-31-14-240: Temporary failure in name resolution
Reading package lists... Error!
E: Write error - write (28: No space left on device)
E: IO Error saving source cache
E: The package lists or status file could not be parsed or opened.
ubuntu@ip-172-31-14-240:~$ python3
Python 3.8.10 (default, Nov 26 2021, 20:14:08)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license()" for more information.
>>> "hello"
'hello'
>>> 12+5
17
>>> name='rose'
>>> print("name is "+rose)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'rose' is not defined
```



The screenshot shows the MobaXterm interface with a terminal window connected to a remote Ubuntu server (3.109.1.109). The terminal displays the following commands and output:

```
>>> b=4
>>> if(b<100):
...     print('b is less than 100')
... else:
...     print('b is',b)
...
b is less than 100
>>> for name in flowers:
...     print(name)
File "<stdin>", line 2
    print(name)
    ^
IndentationError: expected an indented block
>>> for name in flowers:
...     print(name):
File "<stdin>", line 2
    print(name):
    ^
IndentationError: expected an indented block
>>> name=input("what is your name")
what is your name christeena
>>> print(name)
christeena
>>> def calculate(no):
...     if(no>100):
...         print(no*no)
...     else:
...         print(no+no)
...
>>> calculate(200)
40000
>>> calculate(900)
810000
>>> calculate(43)
86
>>> class vegetables:
...     def setvegetables(self,quality,price,expdate):
...         self.quality=quality
```

```
3.109.1.109 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...
[home/ubuntu]
Name
..
..ansible
..cache
..config
..local
..ssh
..tmp
..Abc
..AbcImpex
..anudire
..bootcamp
..cann
..chris_playbook
..chrisrole
..Christy_playbook
..Christyrole
..file
..float
..getting-started
..Impex
..InitialGalaxy
..InitialZing
..lemo_playbook
..mantle
..money
..nan_playbook

Remote monitoring
Follow terminal folder

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>>> class vegetables:
... def setvegetables(self,quality,price,expdate):
...     self.quality=quality
...     self.price=price
...     self.expdate=expdate
... def getvegetables(self):
...     print(self.quality, " ",self.price, " ",self.expdate)
...
>>> vegg=vegetables()
>>> vegg.setvegetables("excellent",345,12)
>>> vegg.getvegetables()
excellent 345 12
>>>
>>> class actors:
... def init(self,name,location,role):
...     File "<stdin>", line 2
...     def _init_(self,name,location,role):
SyntaxError: invalid syntax
>>> class actors:
... def init(self,name,gender,role):
...     File "<stdin>", line 2
...     def _init_(self,name,gender,role):
SyntaxError: invalid syntax
>>> class actors:
...     File "<stdin>", line 1
...     calss actors:
SyntaxError: invalid syntax
>>> class actors:
... def _init_(self,name,role):
...     File "<stdin>", line 2
...     def _init_(self,name,role):
IndentationError: expected an indented block
>>> class vacation:
...     def _init_(self,name,place,noofdays):
```

```
3.109.1.109 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...
[home/ubuntu]
Name
..
..ansible
..cache
..config
..local
..ssh
..tmp
..Abc
..AbcImpex
..anudire
..bootcamp
..cann
..chris_playbook
..chrisrole
..Christy_playbook
..Christyrole
..file
..float
..getting-started
..Impex
..InitialGalaxy
..InitialZing
..lemo_playbook
..mantle
..money
..nan_playbook

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Follow terminal folder

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>>> class vacation:
... def _init_(self,name,place,noofdays):
...     self.name=name
...     self.place=place
...     self.noofdays=noofdays
... def showvacation(self):
...     print(self.name, " ",self.place, " ",self.noofdays)
...
>>> vaca=vacation()
>>> vaca=vacation("dileep", "vaikkam",90)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: vacation() takes no arguments
>>> vaca= vacation("dileesh",vattopt",23)
  File "<stdin>", line 1
vaca= vacation("dileesh",vattopt",23)
SyntaxError: EOL while scanning string literal
>>> vaca= vacation("dileesh","piravam", 324)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: vacation() takes no arguments
>>> exit()
Use exit() or Ctrl-D (i.e. EOF) to exit
>>> exit()
ubuntu@ip-172-31-14-240:~$ pmap

Usage:
pmap [options] PID [PID ...]

Options:
-x, --extended          show details
-X                      show even more details
-WARNING: format         changes according to /proc/PID/smaps
-XX                    show everything the kernel provides
-c, --read-rc           read the default rc
-C, --read-rc-from=<file> read the rc from file
-n, --create-rc         create new default rc
```



```
3.109.1.109 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...
[home/ubuntu]
Name
..
..ansible
..cache
..config
..local
..ssh
..abc
..AbcImpex
..anudire
..bootcamp
..cann
..chris_playbook
..chrisrole
..Christy_platbook
..chrisrole
..file
..float
..getting-started
..Impex
..InitialGalaxy
..InitialZing
..lemo_playbook
..mantle
..money
..nan_playbook
Remote monitoring
Follow terminal folder

-XX show everything the kernel provides
-c, --read-rc read the default rc
-c, --read-rc-from=<file> read the rc from file
-h, --create-rc create new default rc
-N, --create-rc-to=<file> create new rc to file
NOTE: pid arguments are not allowed with -n, -N
-d, --device show the device format
-q, --quiet do not display header and footer
-p, --show-path show path in the mapping
-A, --range=<low>[,<high>] limit results to the given range
-h, --help display this help and exit
-V, --version output version information and exit

For more details see pmap(1).
ubuntu@ip-172-31-14-240:~$ top
top - 07:20:16 up 1:56, 1 user, load average: 0.00, 0.00, 0.00
Tasks: 132 total, 1 running, 131 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
MiB Mem : 3924.1 total, 3077.1 free, 255.4 used, 591.6 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used, 3423.9 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND
  573 root        20   0  975776  49644  27568 S   0.3   1.2   0:05.53 containerd
    1 root        20   0  167760  11428   8380 S   0.0   0.3   0:07.39 systemd
    2 root        20   0    0      0    0    S   0.0   0.0   0:00.00 kthreadd
    3 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 rcu_gp
    4 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 rcu_par_gp
    6 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
    9 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 mm_percpu_wq
   10 root        20   0    0      0    0    S   0.0   0.0   0:00.00 rcu_tasks_rude
   11 root        20   0    0      0    0    S   0.0   0.0   0:00.00 rcu_tasks_trace
   12 root        20   0    0      0    0    S   0.0   0.0   0:00.07 ksoftirqd/0
   13 root        20   0    0      0    0    I   0.0   0.0   0:00.19 rcu_sched
   14 root        rt   0    0      0    0    S   0.0   0.0   0:00.03 migration/0
   15 root       -51   0    0      0    0    S   0.0   0.0   0:00.00 idle_inject/0
   16 root        20   0    0      0    0    S   0.0   0.0   0:00.00 cpuhp/0
   17 root        20   0    0      0    0    S   0.0   0.0   0:00.01 cpuhp/1

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```

```
3.109.1.109 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...
[home/ubuntu]
Name
..
..ansible
..cache
..config
..local
..ssh
..abc
..AbcImpex
..anudire
..bootcamp
..cann
..chris_playbook
..chrisrole
..Christy_platbook
..chrisrole
..file
..float
..getting-started
..Impex
..InitialGalaxy
..InitialZing
..lemo_playbook
..mantle
..money
..nan_playbook
Remote monitoring
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15 root       -51   0    0      0    0    S   0.0   0.0   0:00.00 idle_inject/0
16 root        20   0    0      0    0    S   0.0   0.0   0:00.00 cpuhp/0
17 root        20   0    0      0    0    S   0.0   0.0   0:00.01 cpuhp/1
18 root       -51   0    0      0    0    S   0.0   0.0   0:00.00 idle_inject/1
19 root        rt   0    0      0    0    S   0.0   0.0   0:00.44 migration/1
20 root        20   0    0      0    0    S   0.0   0.0   0:00.06 ksoftirqd/1
22 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 kworker/1:0H-events_highpri
23 root        20   0    0      0    0    S   0.0   0.0   0:00.00 kdevtmpfs
24 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 netns
25 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 inet_frag_wq
26 root        20   0    0      0    0    S   0.0   0.0   0:00.00 kauditd
27 root        20   0    0      0    0    S   0.0   0.0   0:00.00 khungtaskd
28 root        20   0    0      0    0    S   0.0   0.0   0:00.00 oom_reaper
29 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 writeback
30 root        20   0    0      0    0    S   0.0   0.0   0:00.27 kcompactd0
31 root        25   5    0      0    0    S   0.0   0.0   0:00.00 ksmd
32 root        39  19    0      0    0    S   0.0   0.0   0:00.00 khugepaged
78 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 kintegrityd
79 root        0 -20    0      0    0    I   0.0   0.0   0:00.00 kblockd

ubuntu@ip-172-31-14-240:~$ Htop
Command 'Htop' not found, did you mean:
  command 'btop' from snap btop (1.1.3)
  command 'htop' from snap htop (3.1.2)
  command 'htop' from deb htop (2.2.0-2build1)
  command 'utop' from deb utop (2.4.3-1build1)
  command 'qtop' from deb qtop (2.3.4-2build1)
  command 'itop' from deb itop (0.1.4build1)
  command 'ctop' from deb ctop (1.0.0-2)
  command 'atop' from deb atop (2.4.0-3)
  command 'dtop' from deb diod (1.0.24-4)
  command 'ptop' from deb fp-utils-3.0.4 (3.0.4+dfsg-23)
  command 'ptop' from deb px (1.0.29-1)
  command 'top' from deb procs (2:3.3.16-1ubuntu2.3)
See 'snap info <snapname>' for additional versions.

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```

3.109.1.109 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

2. 3.109.1.109 (ubuntu)

ubuntu@ip-172-31-14-240:~\$ htop

Name	Uptime	Mem	Swap	Load	Time	State	Details
ubuntu	pts/0	103.160.233.130			Thu Jan 20 05:40	still	logged in
reboot	system boot	5.11.0-1023-aws			Thu Jan 20 05:24	still	running
ubuntu	pts/0	103.114.249.163			Mon Jan 10 07:36	down	(04:06)
reboot	system boot	5.11.0-1023-aws			Mon Jan 10 06:56	-	11:43 (04:46)
ubuntu	pts/3	103.148.20.43			Sat Jan 8 07:15	-	07:15 (00:01)
reboot	system boot	5.11.0-1023-aws			Sat Jan 8 07:12	-	07:31 (00:18)
ubuntu	pts/4	103.148.20.43			Sat Jan 8 06:58	-	crash (1+23:58)
ubuntu	pts/3	103.148.20.43			Sat Jan 8 06:16	-	07:15 (00:59)
ubuntu	pts/2	103.148.20.43			Sat Jan 8 05:57	-	crash (2+00:59)
ubuntu	pts/1	103.148.20.43			Sat Jan 8 05:26	-	crash (2+01:30)
ubuntu	pts/0	103.148.20.43			Sat Jan 8 05:19	-	crash (2+01:37)
reboot	system boot	5.11.0-1023-aws			Sat Jan 8 05:06	-	11:43 (2+06:36)
ubuntu	pts/0	103.148.20.43			Fri Jan 7 11:36	-	12:39 (01:03)
ubuntu	pts/0	103.148.20.43			Fri Jan 7 07:36	-	09:47 (02:11)
ubuntu	pts/0	103.165.167.200			Fri Jan 7 04:30	-	06:53 (02:22)
reboot	system boot	5.11.0-1022-aws			Fri Jan 7 03:52	-	12:40 (08:47)
reboot	system boot	5.11.0-1022-aws			Thu Jan 6 04:16	-	13:19 (09:02)
reboot	system boot	5.11.0-1022-aws			Wed Jan 5 03:41	-	03:44 (00:02)
reboot	system boot	5.11.0-1022-aws			Mon Jan 3 03:52	-	12:38 (08:45)
ubuntu	pts/0	103.160.194.139			Fri Dec 31 04:22	-	06:35 (02:13)
reboot	system boot	5.11.0-1022-aws			Fri Dec 31 04:03	-	12:39 (08:35)
ubuntu	pts/0	103.160.233.23			Thu Dec 30 11:42	-	12:49 (01:06)
ubuntu	pts/7	103.160.233.23			Thu Dec 30 10:22	-	12:49 (02:26)
ubuntu	pts/6	103.160.233.23			Thu Dec 30 09:56	-	12:19 (02:23)
ubuntu	pts/2	103.160.233.23			Thu Dec 30 09:30	-	11:58 (02:28)
ubuntu	pts/0	103.160.233.23			Thu Dec 30 09:15	-	11:35 (02:20)
ubuntu	pts/5	103.160.233.23			Thu Dec 30 08:56	-	11:16 (02:19)
ubuntu	pts/1	103.160.233.23			Thu Dec 30 08:53	-	11:07 (02:14)
ubuntu	pts/4	103.160.233.23			Thu Dec 30 08:29	-	10:56 (02:29)
ubuntu	pts/3	103.160.233.23			Thu Dec 30 08:09	-	10:37 (02:28)
ubuntu	pts/2	103.160.233.23			Thu Dec 30 06:54	-	09:17 (02:23)
ubuntu	pts/0	103.160.233.23			Thu Dec 30 06:47	-	09:04 (02:17)
ubuntu	pts/1	103.160.233.23			Thu Dec 30 06:25	-	08:39 (02:13)
ubuntu	pts/0	103.160.233.23			Thu Dec 30 04:21	-	06:25 (02:03)
reboot	system boot	5.11.0-1022-aws			Thu Dec 30 04:13	-	12:50 (08:36)

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3.109.1.109 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

2. 3.109.1.109 (ubuntu)

ubuntu@ip-172-31-14-240:~\$ htop

Name	Uptime	Mem	Swap	Load	Time	State	Details
ubuntu	pts/2	103.148.20.54			Wed Dec 15 12:11	-	12:48 (00:36)
ubuntu	pts/1	103.148.20.54			Wed Dec 15 11:54	-	12:48 (00:53)
ubuntu	pts/0	103.148.20.54			Wed Dec 15 11:31	-	12:48 (01:16)
ubuntu	pts/0	103.148.20.54			Wed Dec 15 07:00	-	09:03 (02:02)
ubuntu	pts/2	103.148.20.54			Wed Dec 15 06:16	-	08:31 (02:12)
ubuntu	pts/1	103.148.20.54			Wed Dec 15 05:02	-	07:36 (02:34)
ubuntu	pts/1	103.148.20.54			Wed Dec 15 04:54	-	05:01 (00:07)
ubuntu	pts/0	103.148.20.54			Wed Dec 15 04:15	-	06:27 (02:11)
reboot	system boot	5.11.0-1022-aws			Wed Dec 15 03:46	-	12:48 (09:01)
ubuntu	pts/0	103.148.21.43			Tue Dec 14 04:21	-	06:33 (02:12)
reboot	system boot	5.11.0-1022-aws			Tue Dec 14 04:06	-	13:37 (09:30)
ubuntu	pts/4	103.148.21.43			Mon Dec 13 12:01	-	12:54 (09:52)
ubuntu	pts/1	103.148.21.43			Mon Dec 13 11:50	-	12:54 (01:03)
ubuntu	pts/3	103.148.21.43			Mon Dec 13 10:21	-	12:45 (02:24)
ubuntu	pts/2	103.148.21.43			Mon Dec 13 10:07	-	12:25 (02:18)
ubuntu	pts/0	103.148.21.43			Mon Dec 13 09:59	-	12:13 (02:13)
ubuntu	pts/1	103.148.21.43			Mon Dec 13 07:42	-	10:49 (03:06)
ubuntu	pts/0	103.148.21.43			Mon Dec 13 06:56	-	09:09 (02:12)
ubuntu	pts/2	103.148.21.43			Mon Dec 13 06:28	-	08:43 (02:14)
ubuntu	pts/1	103.148.21.43			Mon Dec 13 05:06	-	07:32 (02:25)
ubuntu	pts/1	103.148.21.43			Mon Dec 13 05:03	-	05:06 (00:02)
ubuntu	pts/0	103.148.21.43			Mon Dec 13 04:29	-	06:44 (02:15)
reboot	system boot	5.11.0-1022-aws			Mon Dec 13 04:02	-	12:54 (08:52)
ubuntu	pts/4	103.165.167.175			Fri Dec 10 12:34	-	12:38 (00:04)
ubuntu	pts/3	103.165.167.175			Fri Dec 10 12:23	-	13:22 (00:59)
ubuntu	pts/2	103.165.167.175			Fri Dec 10 11:43	-	13:22 (01:39)
ubuntu	pts/0	103.165.167.175			Fri Dec 10 11:36	-	13:22 (01:45)
ubuntu	pts/1	103.165.167.175			Fri Dec 10 10:57	-	13:22 (02:25)
ubuntu	pts/0	103.165.167.175			Fri Dec 10 09:09	-	11:33 (02:24)
ubuntu	pts/0	103.165.167.175			Fri Dec 10 06:30	-	08:48 (02:17)
ubuntu	pts/4	103.165.167.175			Fri Dec 10 05:55	-	07:56 (02:01)
ubuntu	pts/3	103.165.167.175			Fri Dec 10 05:01	-	07:17 (02:15)
ubuntu	pts/2	103.165.167.175			Fri Dec 10 04:54	-	07:07 (02:13)
ubuntu	pts/1	103.165.167.254			Fri Dec 10 04:32	-	06:46 (02:14)
ubuntu	pts/0	103.165.167.254			Fri Dec 10 04:13	-	06:25 (02:11)
reboot	system boot	5.11.0-1022-aws			Fri Dec 10 04:06	-	13:22 (09:16)
ubuntu	pts/2	103.161.144.14			Thu Dec 9 11:31	-	12:36 (01:05)
ubuntu	pts/1	103.161.144.14			Thu Dec 9 11:20	-	12:36 (01:16)

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