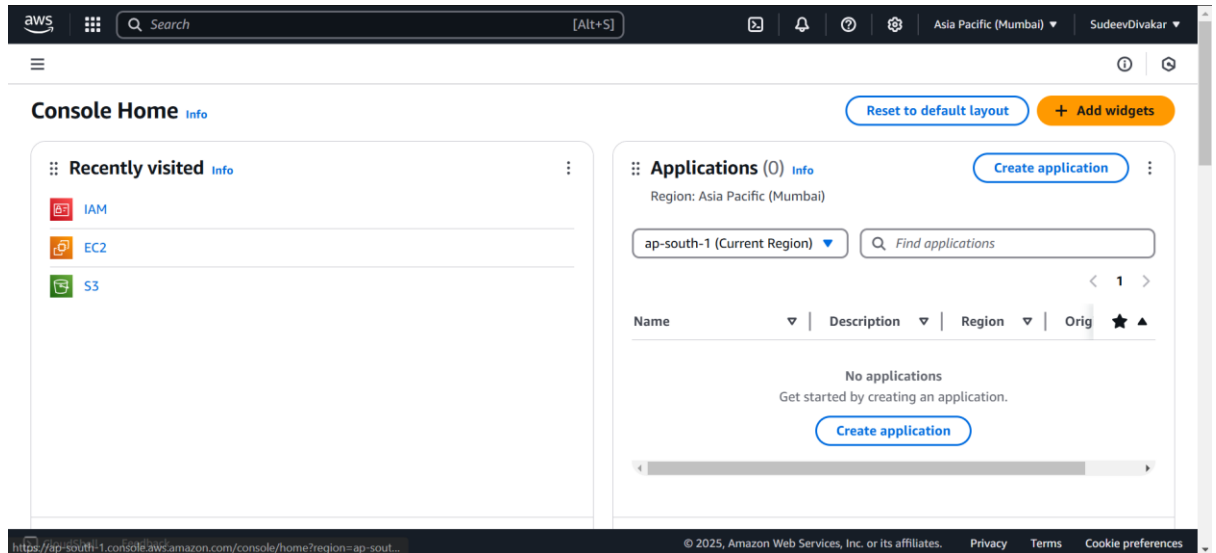
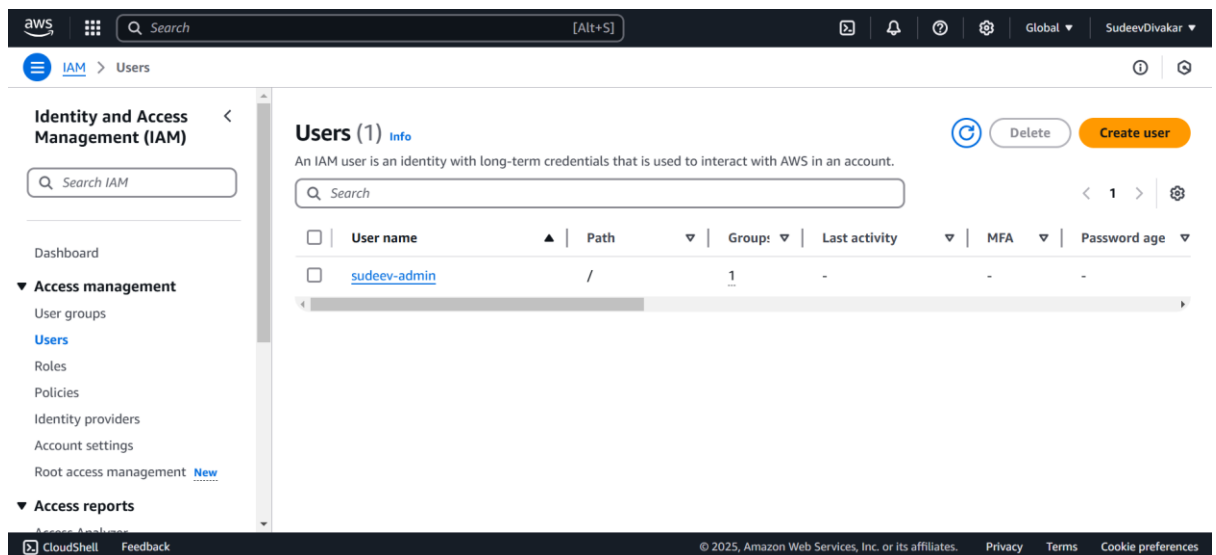


LAB ASSIGNMENTS 1: Linux command On EC2 instance

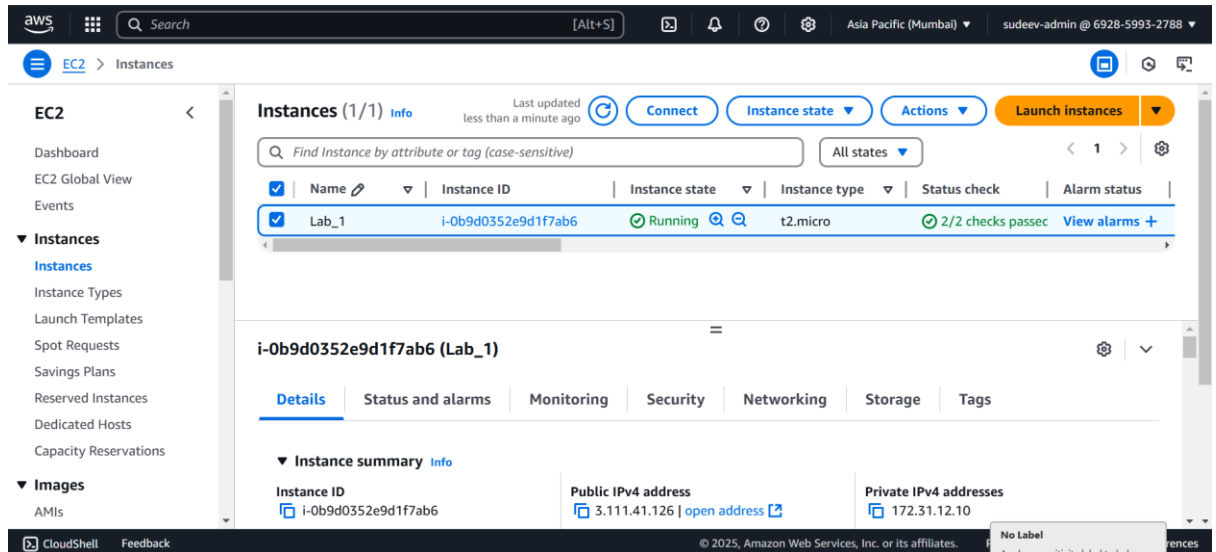
1. Create aws account



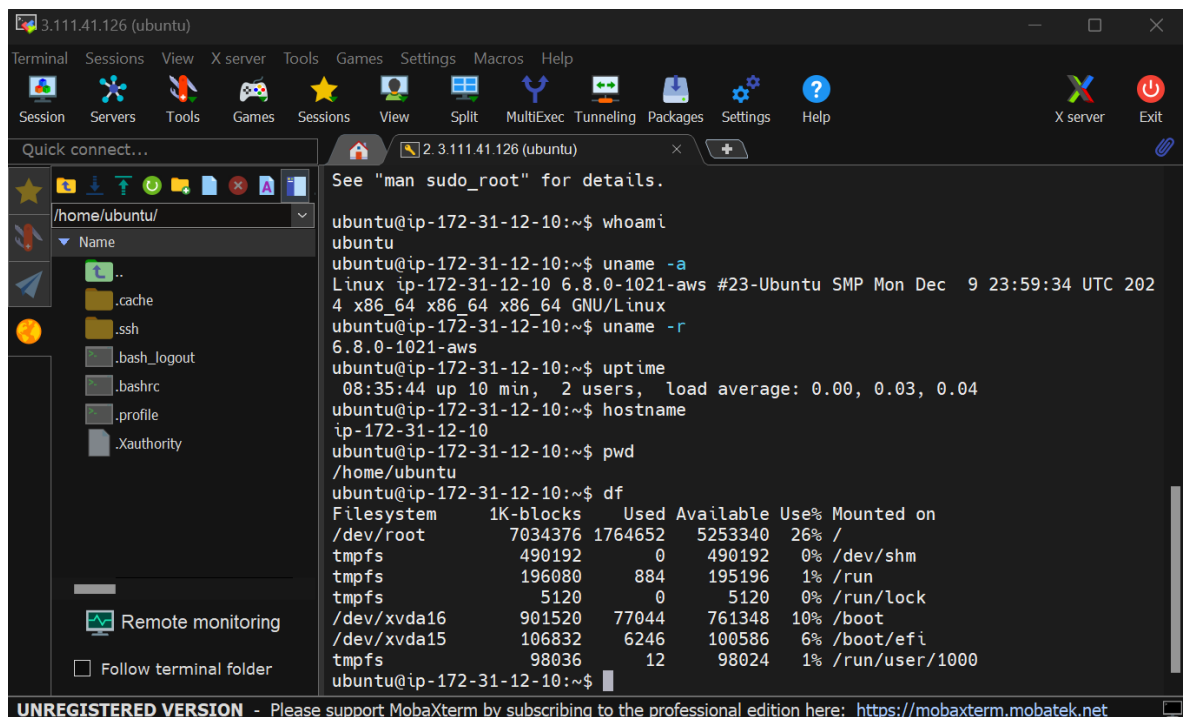
2. aws iam user

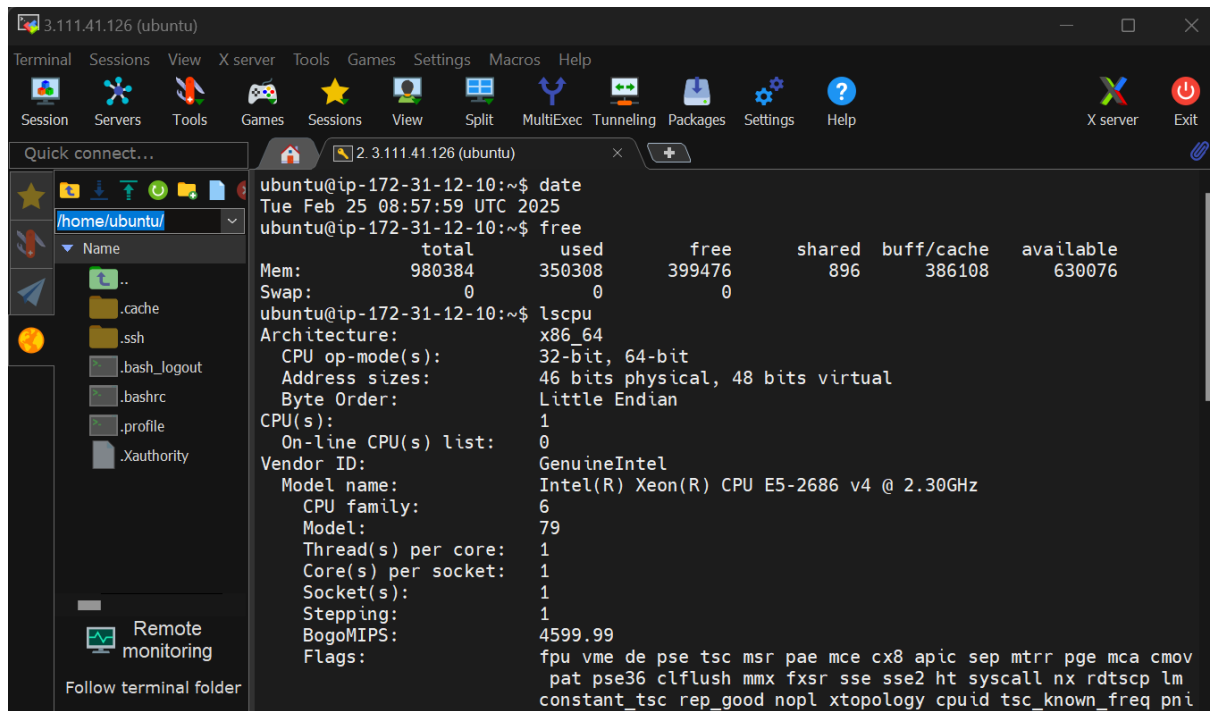


3. Create EC2 instance as demonstrated in the session



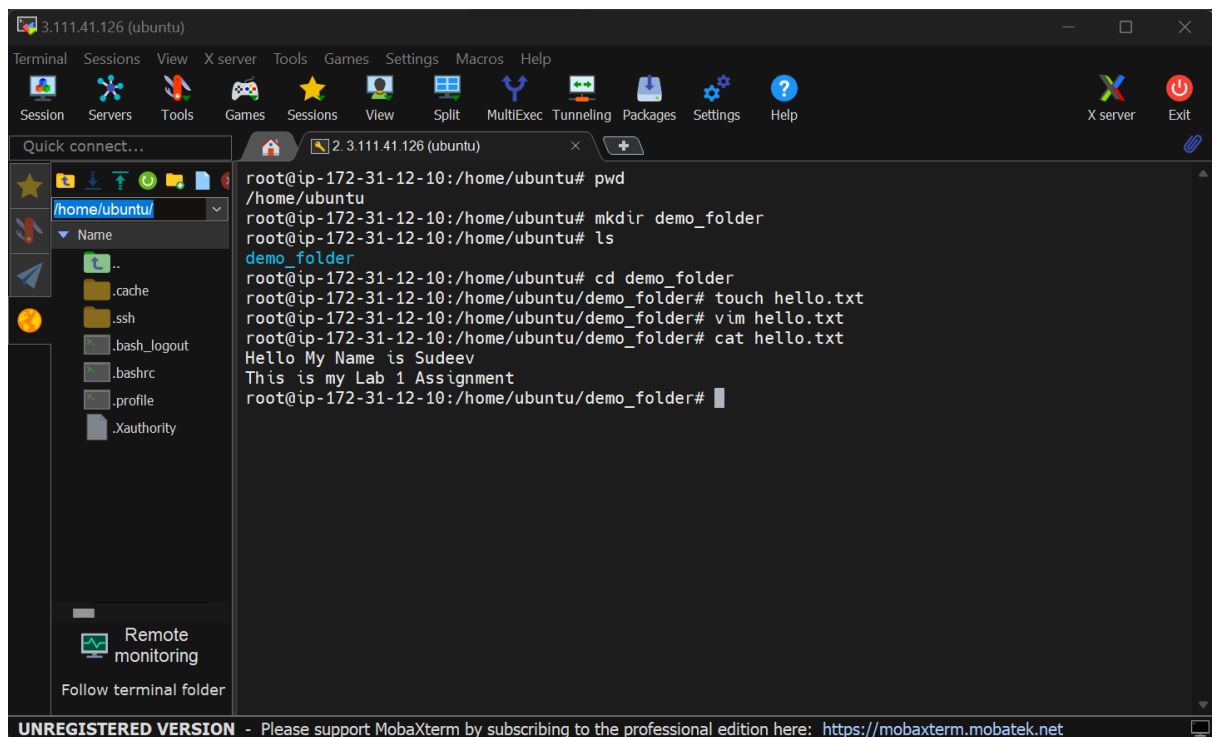
4. Practice linux command on Ubuntu machine





The screenshot shows the MobaXterm interface with a terminal window connected to an Ubuntu server at IP 3.111.41.126. The terminal displays the output of the `date`, `free`, and `lscpu` commands. The `free` command output is formatted as a table.

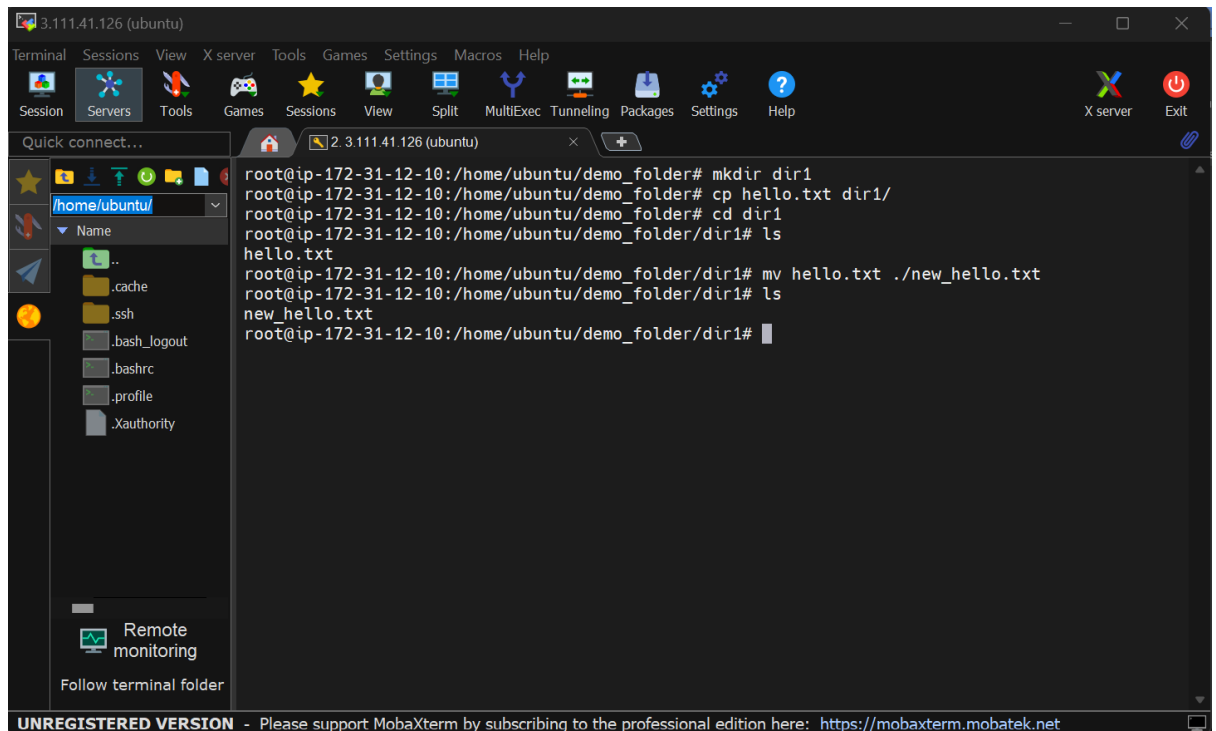
```
ubuntu@ip-172-31-12-10:~$ date
Tue Feb 25 08:57:59 UTC 2025
ubuntu@ip-172-31-12-10:~$ free
              total        used        free      shared  buff/cache   available
Mem:           980384       350308       399476         896       386108       630076
Swap:              0              0
ubuntu@ip-172-31-12-10:~$ lscpu
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:          46 bits physical, 48 bits virtual
Byte Order:             Little Endian
CPU(s):                 1
On-line CPU(s) list:   0
Vendor ID:              GenuineIntel
Model name:             Intel(R) Xeon(R) CPU E5-2686 v4 @ 2.30GHz
CPU family:             6
Model:                 79
Thread(s) per core:    1
Core(s) per socket:    1
Socket(s):              1
Stepping:               1
BogoMIPS:               4599.99
Flags:                  fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
                        pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtscp lm
                        constant_tsc rep_good nopl xtopology cpuid tsc_known_freq pni
```



The screenshot shows the MobaXterm interface with a terminal window connected to the same Ubuntu server. The terminal shows a user with root privileges performing several file operations: creating a directory, listing files, creating a new file, editing it with vim, and displaying its contents with cat.

```
root@ip-172-31-12-10:/home/ubuntu# pwd
/home/ubuntu
root@ip-172-31-12-10:/home/ubuntu# mkdir demo_folder
root@ip-172-31-12-10:/home/ubuntu# ls
demo_folder
root@ip-172-31-12-10:/home/ubuntu# cd demo_folder
root@ip-172-31-12-10:/home/ubuntu/demo_folder# touch hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder# vim hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder# cat hello.txt
Hello My Name is Sudeev
This is my Lab 1 Assignment
root@ip-172-31-12-10:/home/ubuntu/demo_folder#
```

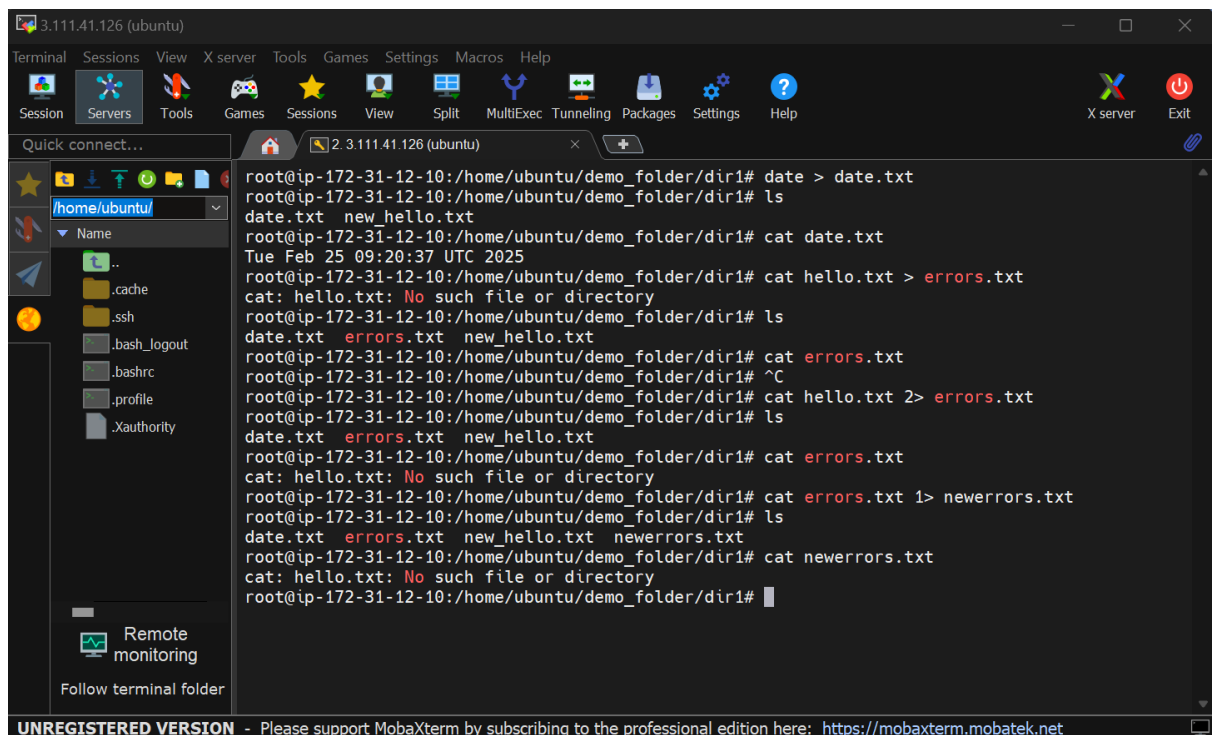
At the bottom of the window, a banner reads: **UNREGISTERED VERSION** - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>



A screenshot of the MobaXterm application window. The title bar shows '3.111.41.126 (ubuntu)'. The menu bar includes Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, and Help. The toolbar contains icons for Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, Help, X server, and Exit. The 'Quick connect...' field shows '2. 3.111.41.126 (ubuntu)'. The left sidebar shows a file tree for '/home/ubuntu/' with folders like .cache, .ssh, .bash_logout, .bashrc, .profile, and .Xauthority. The main terminal pane shows the following commands and output:

```
root@ip-172-31-12-10:/home/ubuntu/demo_folder# mkdir dir1
root@ip-172-31-12-10:/home/ubuntu/demo_folder# cp hello.txt dir1/
root@ip-172-31-12-10:/home/ubuntu/demo_folder# cd dir1
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# mv hello.txt ../new_hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
new_hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1#
```

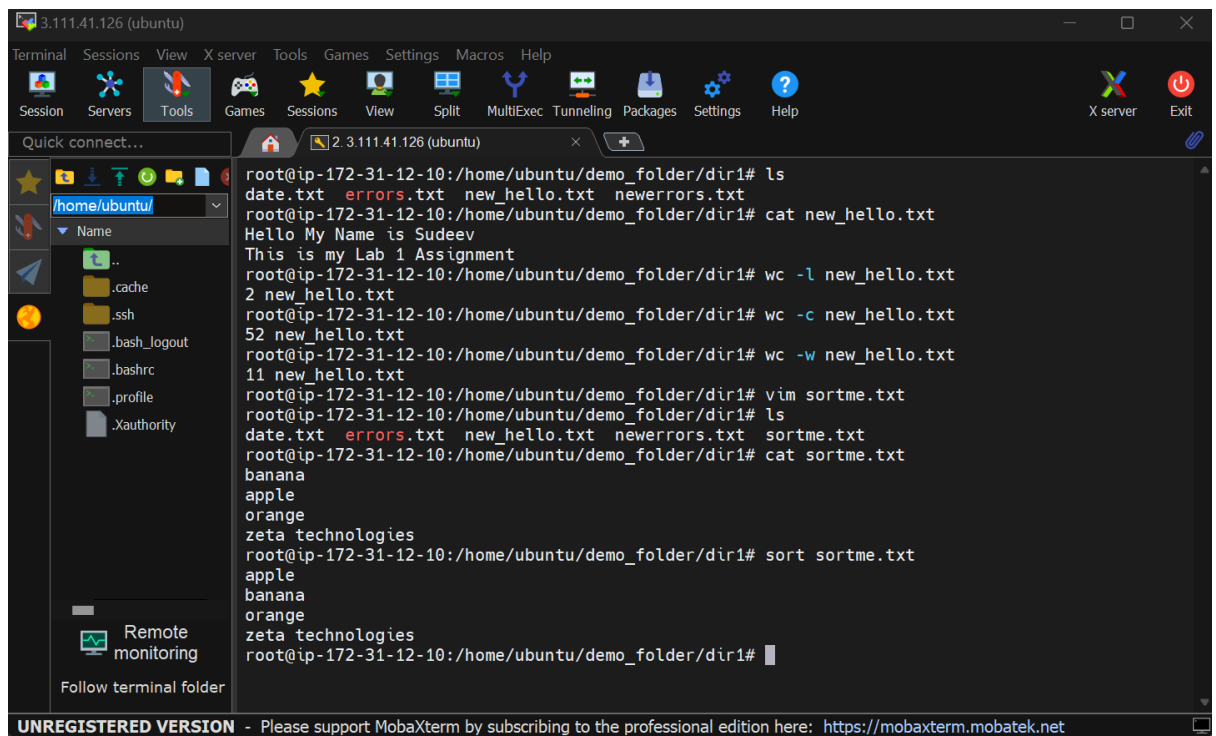
At the bottom, it says 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>'.



A screenshot of the MobaXterm application window, similar to the first one. The terminal pane shows the following commands and output:

```
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# date > date.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
date.txt new_hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat date.txt
Tue Feb 25 09:20:37 UTC 2025
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat hello.txt > errors.txt
cat: hello.txt: No such file or directory
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
date.txt errors.txt new_hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat errors.txt
cat: errors.txt: No such file or directory
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ^C
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat hello.txt 2> errors.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
date.txt errors.txt new_hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat errors.txt
cat: hello.txt: No such file or directory
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat errors.txt 1> newerrors.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
date.txt errors.txt new_hello.txt newerrors.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat newerrors.txt
cat: hello.txt: No such file or directory
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1#
```

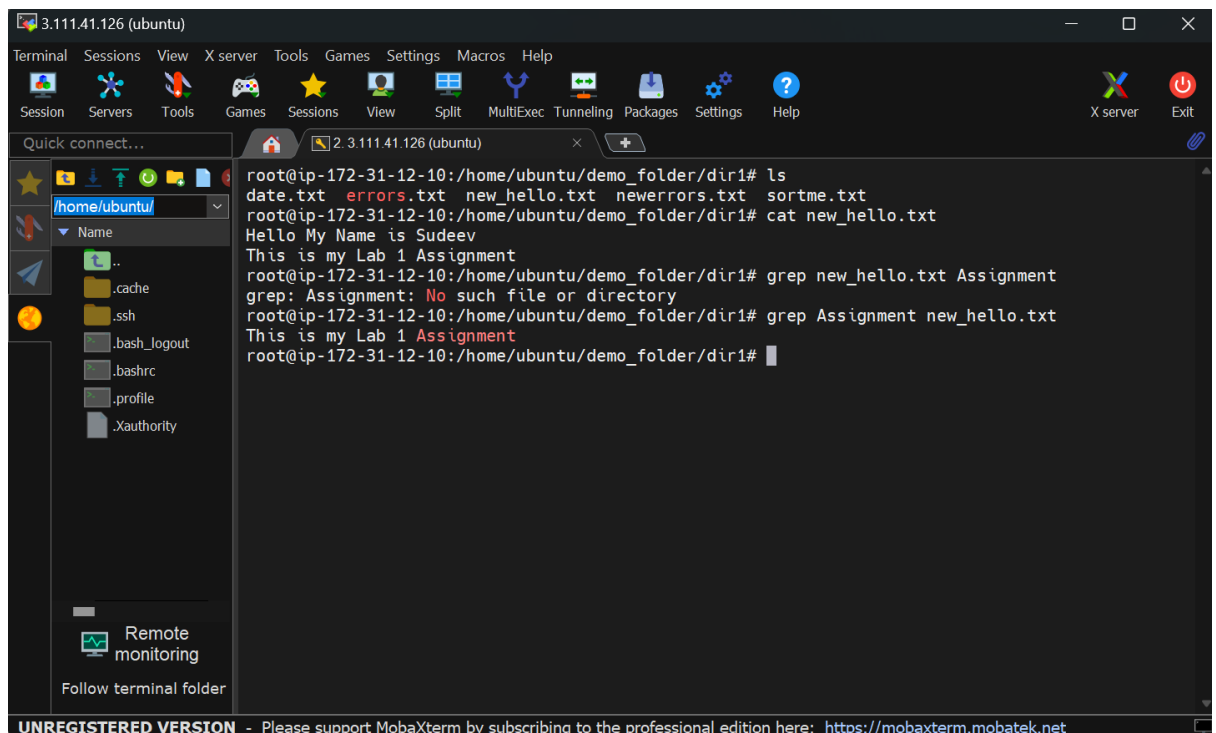
At the bottom, it says 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>'.



The screenshot shows the MobaXterm interface with a terminal session on a remote Ubuntu machine (3.111.41.126). The terminal displays a series of commands and their outputs. The user is in the directory `/home/ubuntu/demo_folder/dir1`. The commands executed are:

```
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
date.txt errors.txt new_hello.txt newerrors.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat new_hello.txt
Hello My Name is Sudeev
This is my Lab 1 Assignment
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# wc -l new_hello.txt
2 new_hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# wc -c new_hello.txt
52 new_hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# wc -w new_hello.txt
11 new_hello.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# vim sortme.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
date.txt errors.txt new_hello.txt newerrors.txt sortme.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat sortme.txt
banana
apple
orange
zeta technologies
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# sort sortme.txt
apple
banana
orange
zeta technologies
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1#
```

The left sidebar shows the file explorer with the current directory `/home/ubuntu/` selected. The bottom status bar indicates the software is an "UNREGISTERED VERSION" and provides a link to the professional edition.



The screenshot shows the MobaXterm interface with a terminal session on a remote Ubuntu machine (3.111.41.126). The terminal displays a series of commands and their outputs. The user is in the directory `/home/ubuntu/demo_folder/dir1`. The commands executed are:

```
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# ls
date.txt errors.txt new_hello.txt newerrors.txt sortme.txt
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# cat new_hello.txt
Hello My Name is Sudeev
This is my Lab 1 Assignment
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# grep new_hello.txt Assignment
grep: Assignment: No such file or directory
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1# grep Assignment new_hello.txt
This is my Lab 1 Assignment
root@ip-172-31-12-10:/home/ubuntu/demo_folder/dir1#
```

The left sidebar shows the file explorer with the current directory `/home/ubuntu/` selected. The bottom status bar indicates the software is an "UNREGISTERED VERSION" and provides a link to the professional edition.

