King Abdulaziz University
Faculty of Engineering

EE463

Operating Systems

Semester 3 - 2023

Lab #1

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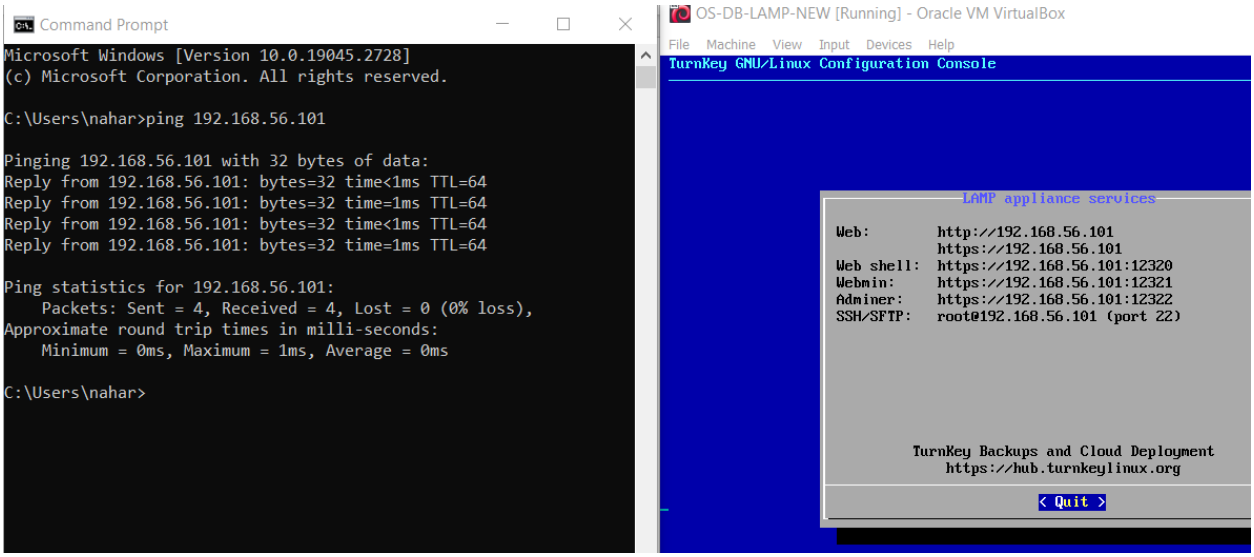
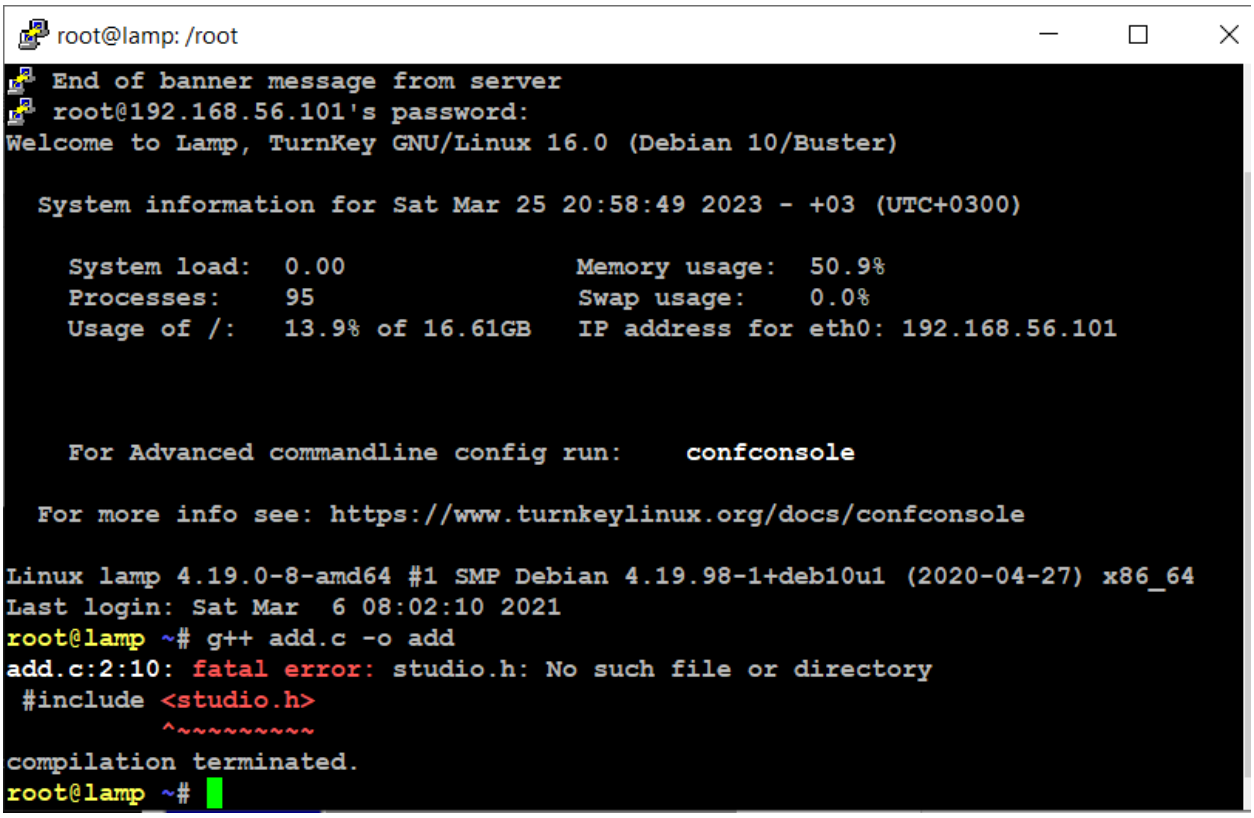
Testing The Ping



Testing add.c code



Editing add.c code

root@lamp: /root

```
#include <stdlib.h>
#include <stdio.h>
void main(int argc, char *argv[]) {
int a,b,c;
a=atoi(argv[1]);
b=atoi(argv[2]);
printf("a,b = %d %d \n", argv[1], argv[2]);
c=a+b;
printf(" c = %d \n",c);
}
~
~
~
~
~
~
~
~
~
~
~
~
~
:wq
```

Adding Two Numbers

root@lamp: /root

```
   System load:  0.00              Memory usage:  50.9%
   Processes:    95                Swap usage:    0.0%
   Usage of /:   13.9% of 16.61GB  IP address for eth0: 192.168.56.101



   For Advanced commandline config run:    confconsole

  For more info see: https://www.turnkeylinux.org/docs/confconsole

Linux lamp 4.19.0-8-amd64 #1 SMP Debian 4.19.98-1+deb10u1 (2020-04-27) x86_64
Last login: Sat Mar  6 08:02:10 2021
root@lamp ~# g++ add.c -o add
add.c:2:10: fatal error: studio.h: No such file or directory
 #include <studio.h>
          ^~~~~~~~~~
compilation terminated.
root@lamp ~# vim add.c
root@lamp ~# gcc add.c -o add
root@lamp ~# ./add 1076 764
a,b = 951666753 951666758
 c = 1840
root@lamp ~#
```

Adding a new User

```
root@lamp ~# adduser nahar
Adding user `nahar' ...
Adding new group `nahar' (1000) ...
Adding new user `nahar' (1000) with group `nahar' ...
Creating home directory `/home/nahar' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for nahar
Enter the new value, or press ENTER for the default
        Full Name []:
```

Tutorial 1

nahar@lamp: /home/nahar

```
login as: nahar
nahar@192.168.56.101's password:
Welcome to Lamp, TurnKey GNU/Linux 16.0 (Debian 10/Buster)

  System information for Sat Mar 25 23:04:47 2023 - +03 (UTC+0300)

    System load:  0.04              Memory usage:  42.9%
    Processes:    100               Swap usage:    0.0%
    Usage of /:   13.9% of 16.61GB  IP address for eth0: 192.168.56.101



    For Advanced commandline config run:    confconsole

  For more info see: https://www.turnkeylinux.org/docs/confconsole

Linux lamp 4.19.0-8-amd64 #1 SMP Debian 4.19.98-1+deb10u1 (2020-04-27) x86_64
nahar@lamp ~$ ls
nahar@lamp ~$ ls
add.c
nahar@lamp ~$ ls -a
.   .bash_logout  .bashrc.d  .profile    .sdirs  add.c
..  .bashrc       .penv      .profile.d  .ssh
nahar@lamp ~$ mkdir unixstuff
nahar@lamp ~$ ls
add.c  unixstuff
nahar@lamp ~$ cd unixstuff
nahar@lamp ~/unixstuff$ mkdir backups
nahar@lamp ~/unixstuff$ ls
backups
nahar@lamp ~/unixstuff$ ls -a
.  ..  backups
nahar@lamp ~/unixstuff$ cd .
nahar@lamp ~/unixstuff$ cd ..
nahar@lamp ~$ cd
nahar@lamp ~$ pwd
/home/nahar
nahar@lamp ~$ ls unixstuff
backups
nahar@lamp ~$ ls backups
ls: cannot access 'backups': No such file or directory
nahar@lamp ~$ ls unixstuff/backups
nahar@lamp ~$ ls ~/unixstuff
backups
nahar@lamp ~$ ls ~
add.c  unixstuff
nahar@lamp ~$ ls ~/..
nahar
nahar@lamp ~$
```

Tutorial 2

Example 2.1

```
nahar@lamp ~/.../vol/examples$ mkdir tutorial
nahar@lamp ~/.../vol/examples$ cd tutorial
nahar@lamp ~/.../examples/tutorial$ touch science.txt
nahar@lamp ~/.../examples/tutorial$ cd
nahar@lamp ~$ cd unixstuff
nahar@lamp ~/unixstuff$ cp /home/nahar/unixstuff/vol/examples/tutorial/science.txt
cp: missing destination file operand after '/home/nahar/unixstuff/vol/examples/tutorial/science.txt'
Try 'cp --help' for more information.
nahar@lamp ~/unixstuff$ cp /home/nahar/unixstuff/vol/examples/tutorial/science.txt .
nahar@lamp ~/unixstuff$ ls
backups  science.txt  vol
nahar@lamp ~/unixstuff$
```

Exercise 2A

```
nahar@lamp ~$ cd unixstuff
nahar@lamp ~/unixstuff$ touch science.bak
nahar@lamp ~/unixstuff$ ls
backups  science.bak  science.txt  vol
nahar@lamp ~/unixstuff$ cp /home/nahar/unixstuff/science.txt science.bak
nahar@lamp ~/unixstuff$
```

Example 2.2

```
nahar@lamp ~/unixstuff$ touch science.bak
nahar@lamp ~/unixstuff$ mv science.bak backups/.
nahar@lamp ~/unixstuff$ ls backups
science.bak
```

Exercise 2b

```
nahar@lamp ~/unixstuff$ mkdir tempstuff
nahar@lamp ~/unixstuff$ ls
backups  science.txt  tempstuff  vol
nahar@lamp ~/unixstuff$ rmdir tempstuff
ls
nahar@lamp ~/unixstuff$ ls
backups  science.txt  vol
nahar@lamp ~/unixstuff$
```