Today

- Work as a group
  - Sit with your group now
- Not everyone will perform every task
- Everyone will be responsible for understanding how to perform every task.

Linux Administration

- OpenSUSE
- Root account vs user account

- su - super user
  - need root password

- sudo - act as super user
  - use your own password

- Add/Delete User

- Install/Update software

Your Group's Linux Server

cs360-#.cs.pacificu.edu

Connecting:

Text

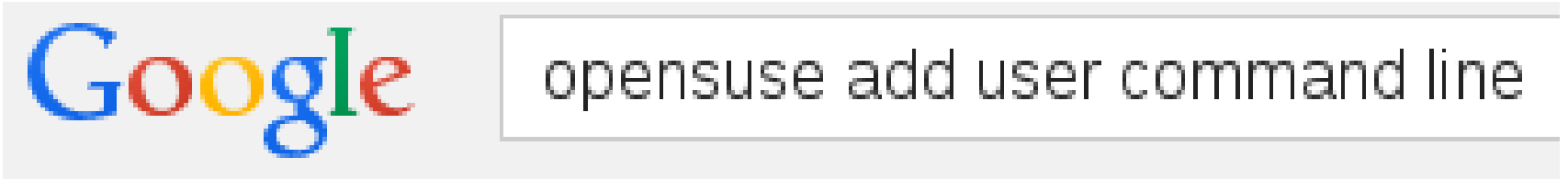
```
ssh -X user@cs360-#.cs.pacificu.edu
```

Graphical

```
vncviewer cs360-#:5901 -compresslevel 1 -quality 3
```

`/sbin/ifconfig | grep “inet addr”`
to find the IP address (from outside CS Lab)

Help!




```
chadd@moe:~> apropos user

chadd@moe:~> apropos user | less

chadd@moe:~> man useradd
```

https://en.opensuse.org/Portal:Support

http://linux.die.net/man/

- Add a User

```
sudo useradd -G wheel -m USERNAME
sudo passwd USERNAME
```

- Update software

```
sudo zypper lu
sudo zypper update
```

- Install software

```
cnf terminator
sudo zypper se terminator
sudo zypper in package
```

- Configuration via GUI

```
sudo yast2  &
```

Tasks

- One person per group log in to their server
  - create a user account for each person in the group
- Everyone SSH to their server to verify their account.
- Everyone change your password on the server
  - make sure your prompt says
    ***user*@cs360-#**

    passwd
- Stop.

Tasks - One Person

- Install **nano**
- Update the software on the server
- Use the **`shutdown`** command to **reboot** the server!
  - use a 1 minute delay
  - everyone log off before the reboot
  - How do I learn how to use the **`shutdown`** command?

/proc

/proc is a directory that contains files with data about the system

```
ls -a /proc
cat /proc/cpuinfo | less
cat /proc/meminfo | less

screen -S test
nano
<exit screen> Control-a d

ps u | grep nano # find nano PID
ls /proc/NANO_PID
ls -al /proc/NANO_PID/exe
ls -al /proc/NANO_PID/cwd
cat /proc/NANO_PID/cmdline
```

Everyone SSH to their server and run these commands

Tasks

- Everyone
  - SSH to your server **`ssh -X user@cs360-#`**
  - Create SSH keys to interact with GitHub
    - add your new key to GitHub (now you have 2+ keys at GH)
  - Use **git** to **clone** your **`ContactManager-Example-C-Group-#`** repository
  - Use **nano** to edit your code on the server
    - add a line to the end of README.md
  - Build your code.
  - Test your code.

Help your group members!