### Things I learn in CEIS 106

BY NIRAL PATEL

#### Introduction

- ▶ In this you will see what I learn in my class.
  - ▶ I was new to terminal use and I always use gui to do my computer work. In slides you will know what can I do in computer with out gui.
  - We learn how to find a file in the computer with Terminal.
  - We learn how to bash program with terminal
  - ► How to write program in terminal
  - ▶ How change premotion in terminal
  - Network change and find ip address in terminal
  - How to monitor system using terminal

## Project 1: Linux Installation & bios settings

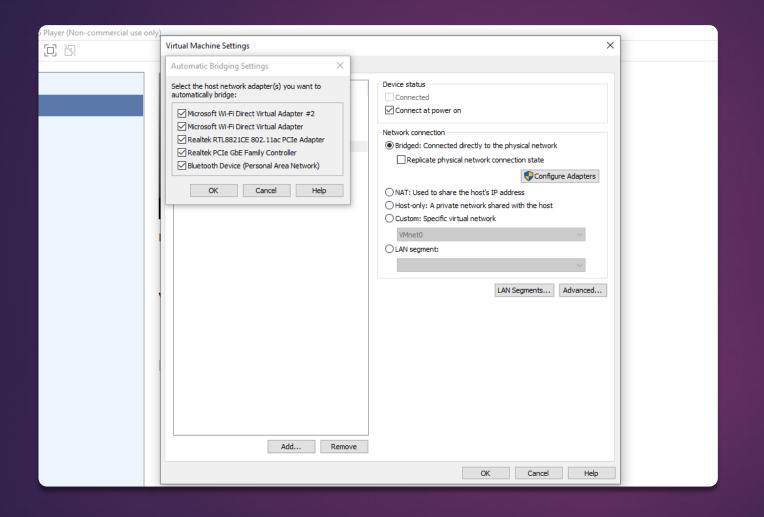
- 1. In my HP computer I used "F10" to get to BIOS settings
- 2. In BIOS I make sure Virtualization Technology was enable.

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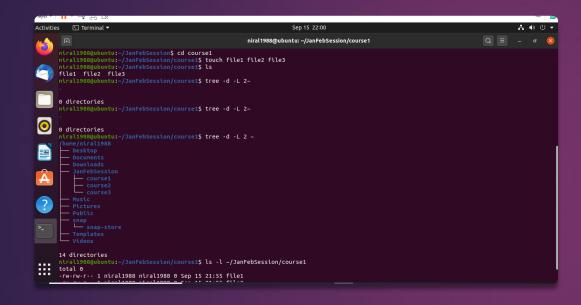
Mware Workstation 15 Player (Non-commercial use only)

### Project 2: Filesystem Hierarchy

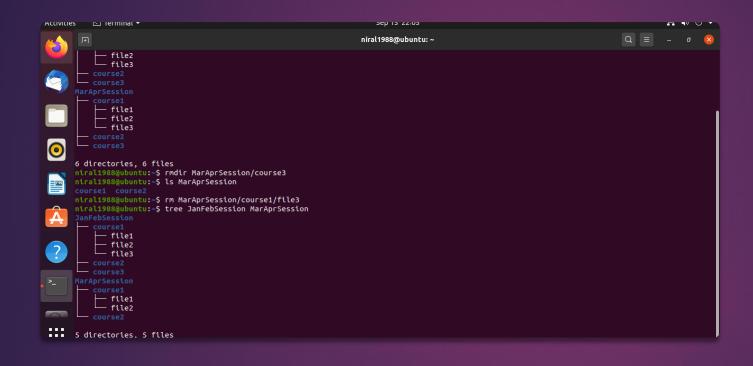
- Connect ubuntu vm to Internet
- Navigate the linux file system tree
- Create directories and file
- Copy and remove the directories and file
- Locate directories and file



Connect the ubuntu vm to Internet



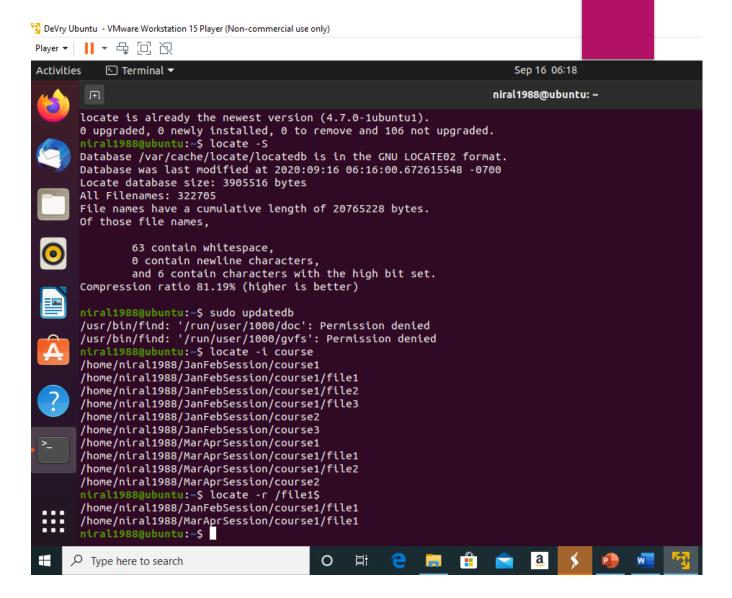
# Create directories and files.



Copy and remove directories and files

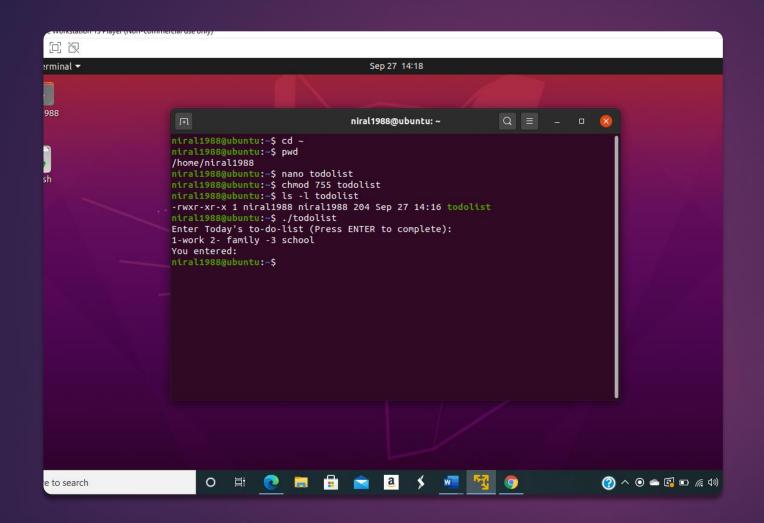
### Locate directories and files

- Pwd = Print working directory
- Cd Change directory
- Relative path is related to the present working directory
- Absolute path is use to located the specific location for the path

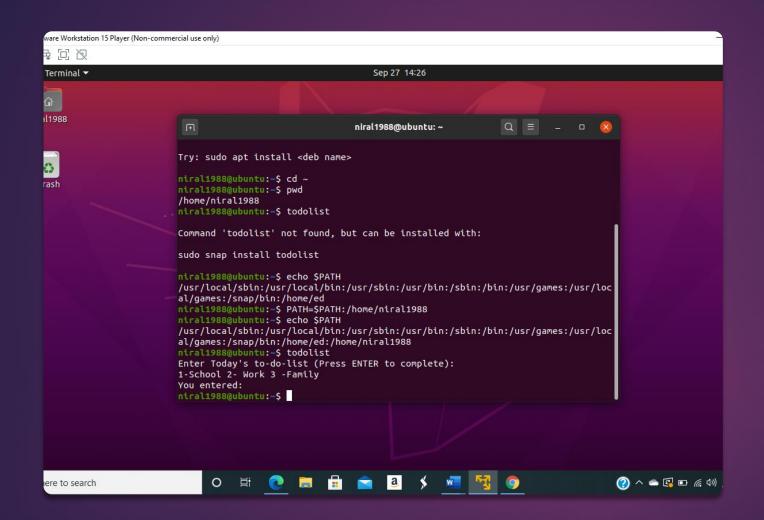


### Project 3: Shell Scripts

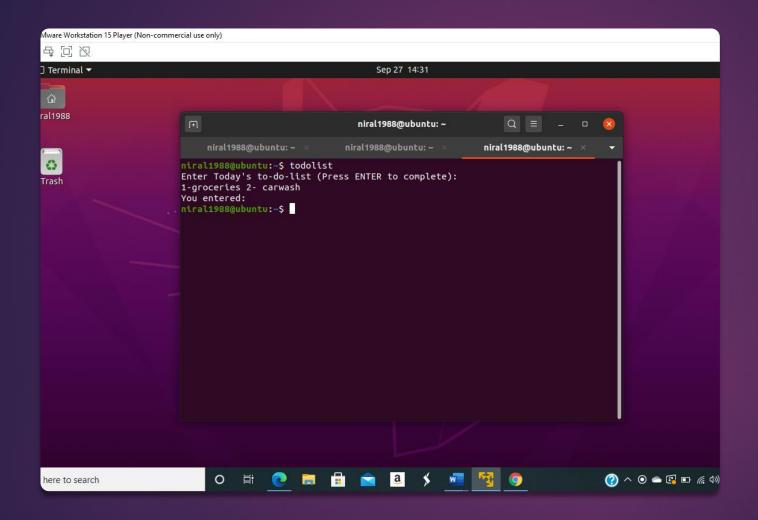
- Create shell script
- Change script file permissions
- Set the PATH variable
- Make the Path Variable permanent



### Change Script file Permissions



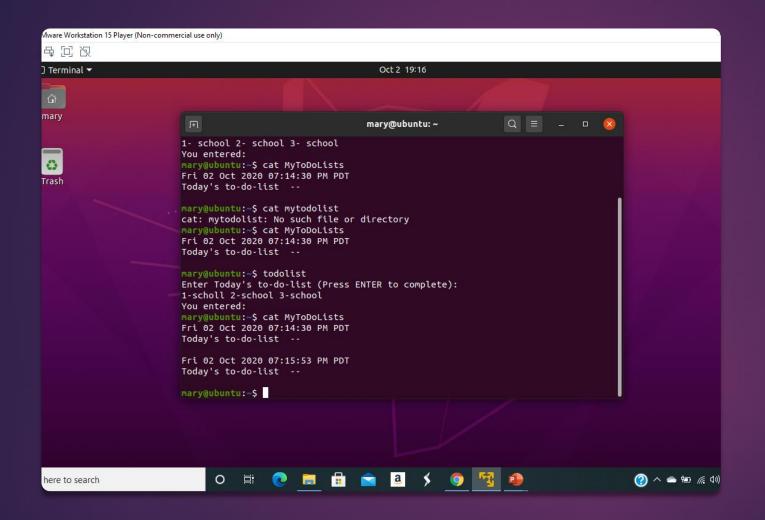
# Set the PATH variable



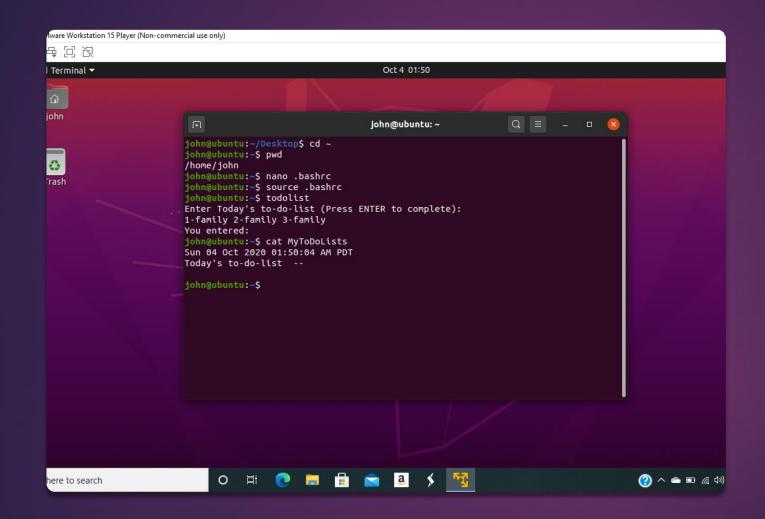
# Make the PATH Variable permanent

### Project 4 user group Management

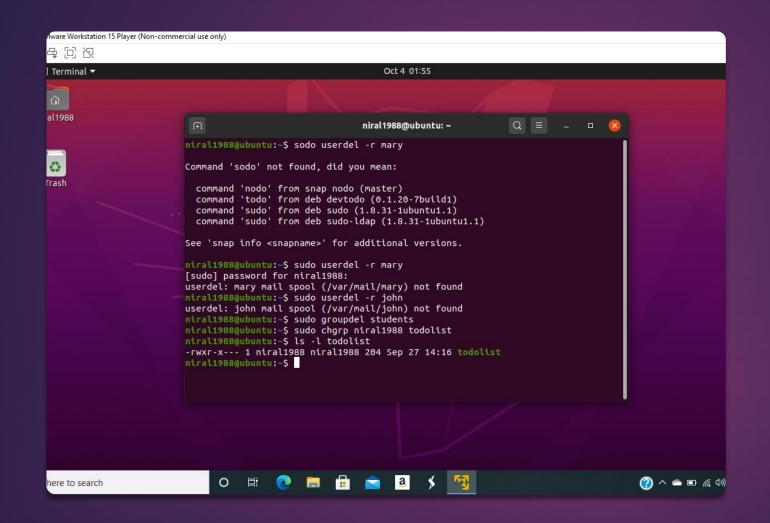
- Add user and groups in CLI
- ► Test user and group settings
- Add user in GUI
- Remove user and groups



# Test user and group settings



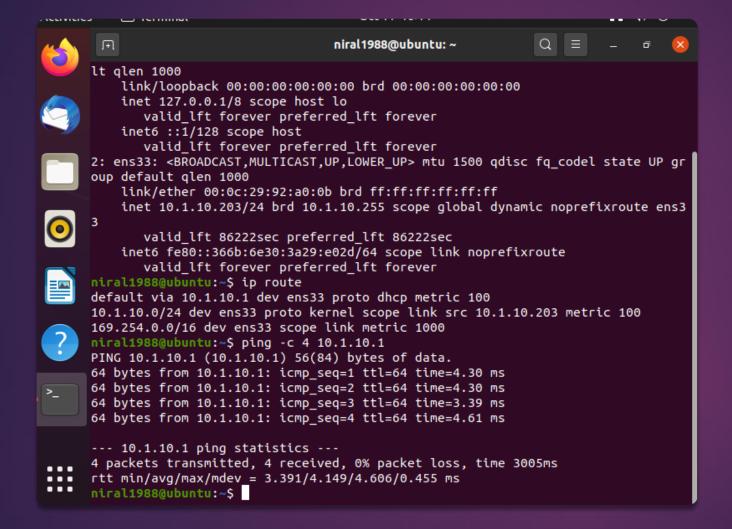
## Add user in GUI



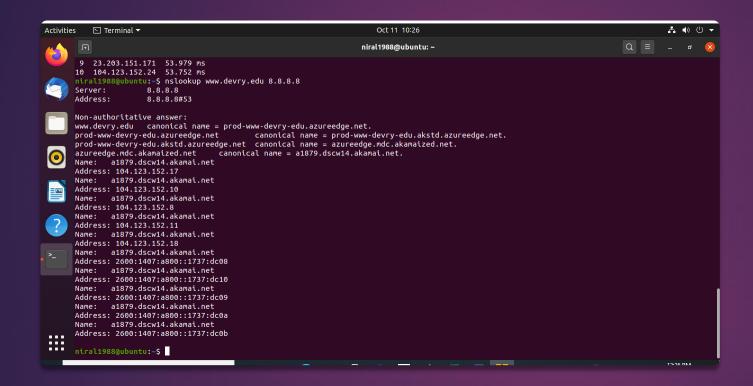
# Remove users and groups

### Project 5: Network configuration

- Discover host ip configurations
- User network utilities



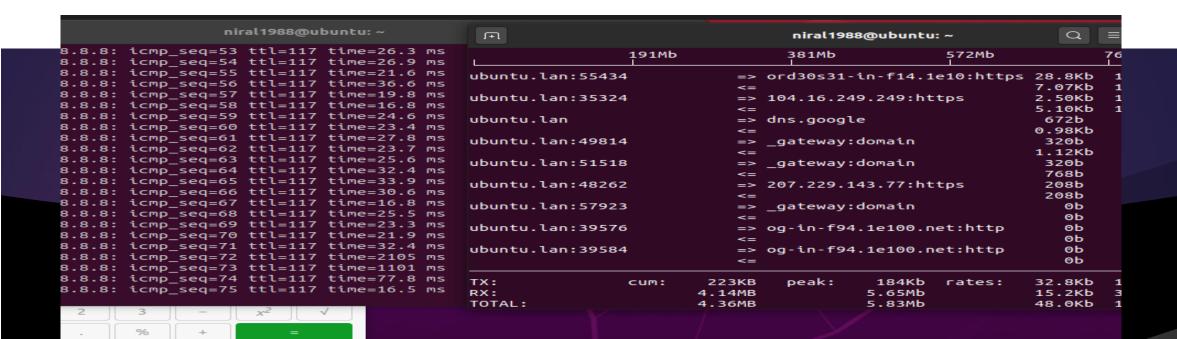
### Discover host lp configurations



## Use network utilities

## Project 6 : system performance monitoring

- Monitor Processes
- Monitor user activates
- Monitor network bandwidth usage



## Monitor system network bandwidth

- K to kill 15 Sigterm
- When we open Firefox it was using 16% processor
- Flag value come up as S (super user)
- System use root to hide username

### Problems

- ► Learning new commands
- ▶ Spell the same work different for computer language.

### Skill learn

- ► How to get in BIOS
- Know how to run program in terminal and run it with bash
- How to monitor system
- Make user name
- Set up network connection
- Create password
- Find file and directory as needed
- Give and take premotion of some file

### Conclusion slide

▶ Taking this class my point of view of computer OS change. Thinking how much things happens in the background while we do one click. I wants to learn more so I can understand what else happens in the back and change the code as I like.