

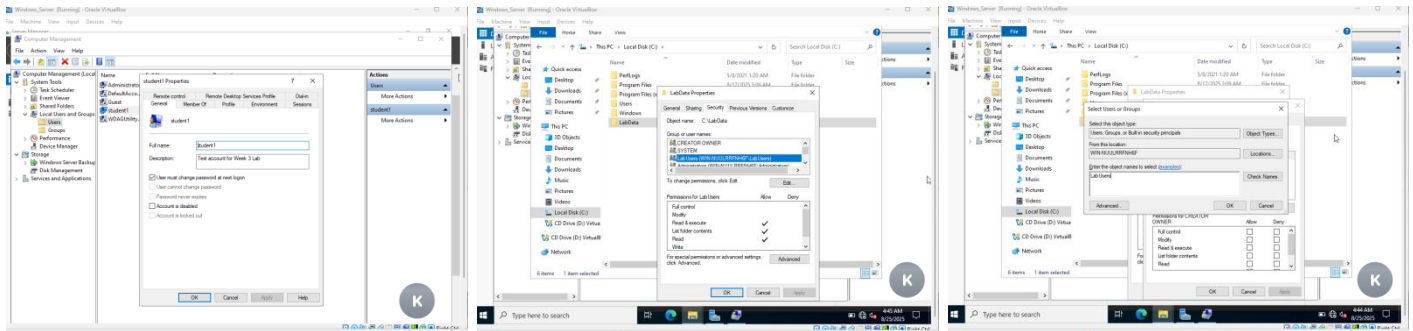
Name: **KHAYE B. BENITEZ**  
Course, Year & Section: **BSIT-4B**

Subject: **IT 123 - System Administration and Maintenance**  
Prof: **Guillermo V. Red Jr.**

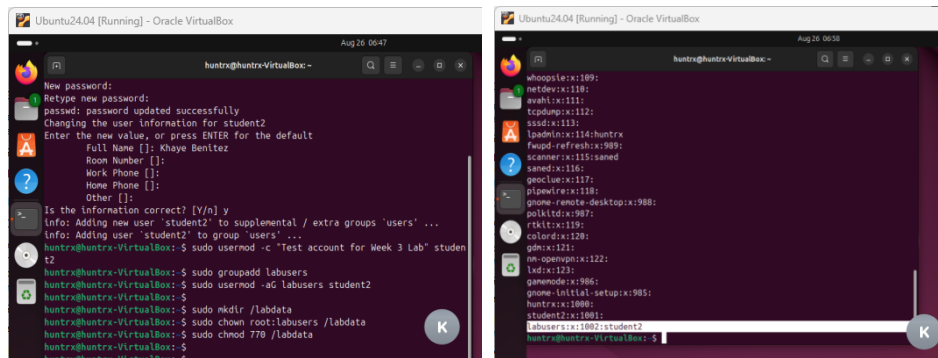
## WEEK 3 LABORATORY 2

### User and Group Management in Windows & Linux

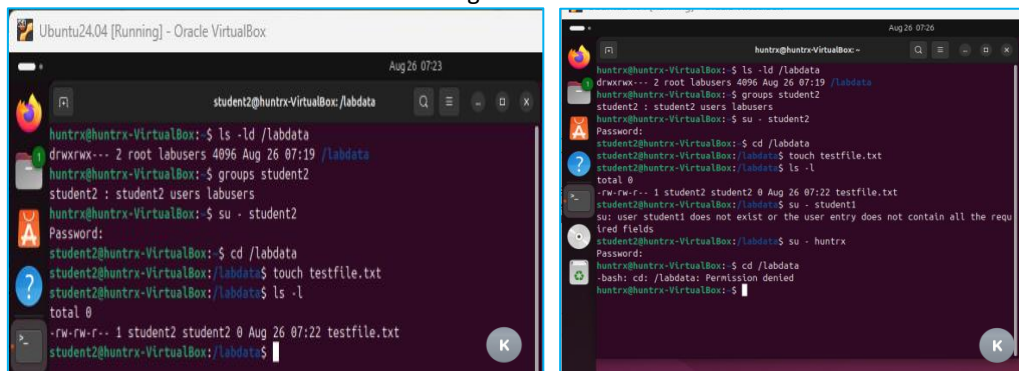
#### Part 1 – User & Group Management in Windows Server



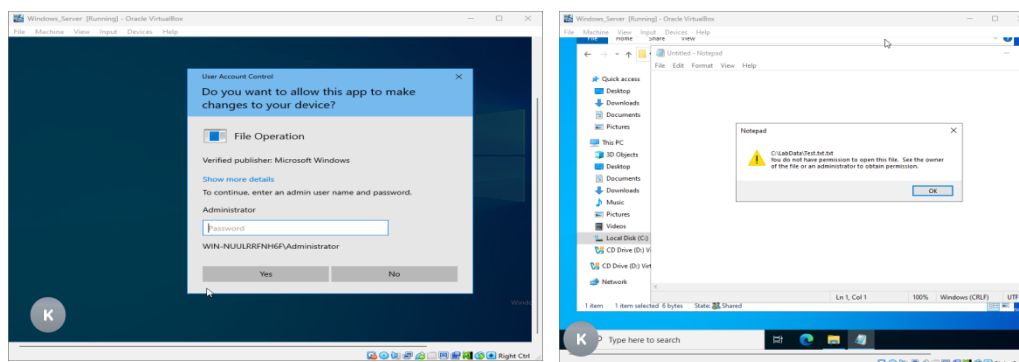
#### Part 2 – User & Group Management in Ubuntu Server



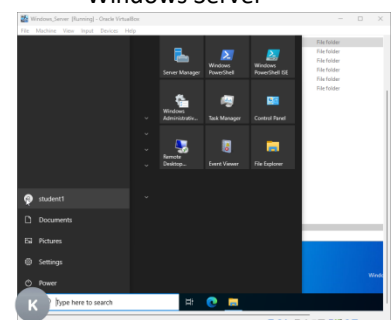
#### Part 3 – Verification & Troubleshooting



#### Ubuntu Linux



#### Windows Server



## Part 4 – Exercise for Students

```

huntr@huntr-VirtualBox:~$ sudo adduser faculty2
[sudo] password for huntr:
info: Adding user 'faculty2' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group 'faculty2' (1003) ...
info: Adding new user 'faculty2' (1003) with group 'faculty2' (1003) ...
info: Creating home directory '/home/faculty2' ...
info: Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for faculty2
Enter the new value, or press ENTER for the default
  Full Name []:
  Room Number []:
  Work Phone []:
  Home Phone []:
  Other []:
Is the information correct? [Y/n] y
info: Adding new user 'faculty2' to supplemental / extra groups 'users' ...
info: Adding user 'faculty2' to group 'users' ...
huntr@huntr-VirtualBox:~$ sudo adduser student4
info: Adding user 'student4' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group 'student4' (1004) ...
info: Adding new user 'student4' (1004) with group 'student4' (1004) ...
info: Creating home directory '/home/student4' ...
info: Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for student4
Enter the new value, or press ENTER for the default
  Full Name []:
  Room Number []:
  Work Phone []:
  Home Phone []:
  Other []:
Is the information correct? [Y/n] y
info: Adding new user 'student4' to supplemental / extra groups 'users' ...
info: Adding user 'student4' to group 'users' ...
huntr@huntr-VirtualBox:~$ sudo groupadd facultygrp
huntr@huntr-VirtualBox:~$ sudo groupadd studentgrp
huntr@huntr-VirtualBox:~$ sudo usermod -s /bin/bash faculty2
huntr@huntr-VirtualBox:~$ sudo usermod -s /bin/bash student4
huntr@huntr-VirtualBox:~$ groups faculty2
faculty2 : faculty2 users facultygrp
huntr@huntr-VirtualBox:~$ groups student4
student4 : student4 users studentgrp
huntr@huntr-VirtualBox:~$ sudo mkdir /facultydata
huntr@huntr-VirtualBox:~$ sudo mkdir /studentdata
huntr@huntr-VirtualBox:~$ sudo chown root:facultygrp /facultydata
huntr@huntr-VirtualBox:~$ sudo chown root:studentgrp /studentdata
huntr@huntr-VirtualBox:~$ sudo chown 770 /facultydata
huntr@huntr-VirtualBox:~$ sudo chown 750 /studentdata
huntr@huntr-VirtualBox:~$ ls -ld /facultydata /studentdata
drwxr-x--- 2 root facultygrp 4096 Aug 26 07:48 /facultydata
drwxr-x--- 2 root studentgrp 4096 Aug 26 07:48 /studentdata
huntr@huntr-VirtualBox:~$

huntr@huntr-VirtualBox:~$ sudo chown root:facultygrp /facultydata
huntr@huntr-VirtualBox:~$ sudo chown root:studentgrp /studentdata
huntr@huntr-VirtualBox:~$ sudo chmod 770 /facultydata
huntr@huntr-VirtualBox:~$ sudo chmod 750 /studentdata
huntr@huntr-VirtualBox:~$ ls -ld /facultydata /studentdata
drwxr-x--- 2 root facultygrp 4096 Aug 26 07:48 /facultydata
drwxr-x--- 2 root studentgrp 4096 Aug 26 07:48 /studentdata
huntr@huntr-VirtualBox:~$

student4@huntr-VirtualBox:/studentdata$
student4@huntr-VirtualBox:/studentdata$ ls
test_faculty.txt
test_student.txt
student4@huntr-VirtualBox:/studentdata$ touch test_faculty.txt
student4@huntr-VirtualBox:/studentdata$ touch test_student.txt
student4@huntr-VirtualBox:/studentdata$ ls
test_faculty.txt  test_student.txt
student4@huntr-VirtualBox:/studentdata$ exit
logout
huntr@huntr-VirtualBox:~$ sudo -i student4
sudo: : command not found
huntr@huntr-VirtualBox:~$ su - student4
Password:
student4@huntr-VirtualBox:/studentdata$ cd /facultydata
student4@huntr-VirtualBox:/facultydata$ ls
test_faculty.txt  test_student.txt
student4@huntr-VirtualBox:/facultydata$ touch test_faculty.txt
touch: cannot touch 'test_faculty.txt': Permission denied
student4@huntr-VirtualBox:/facultydata$ touch test_student.txt
touch: cannot touch 'test_student.txt': Permission denied
student4@huntr-VirtualBox:/facultydata$ ls
test_faculty.txt  test_student.txt
student4@huntr-VirtualBox:/facultydata$

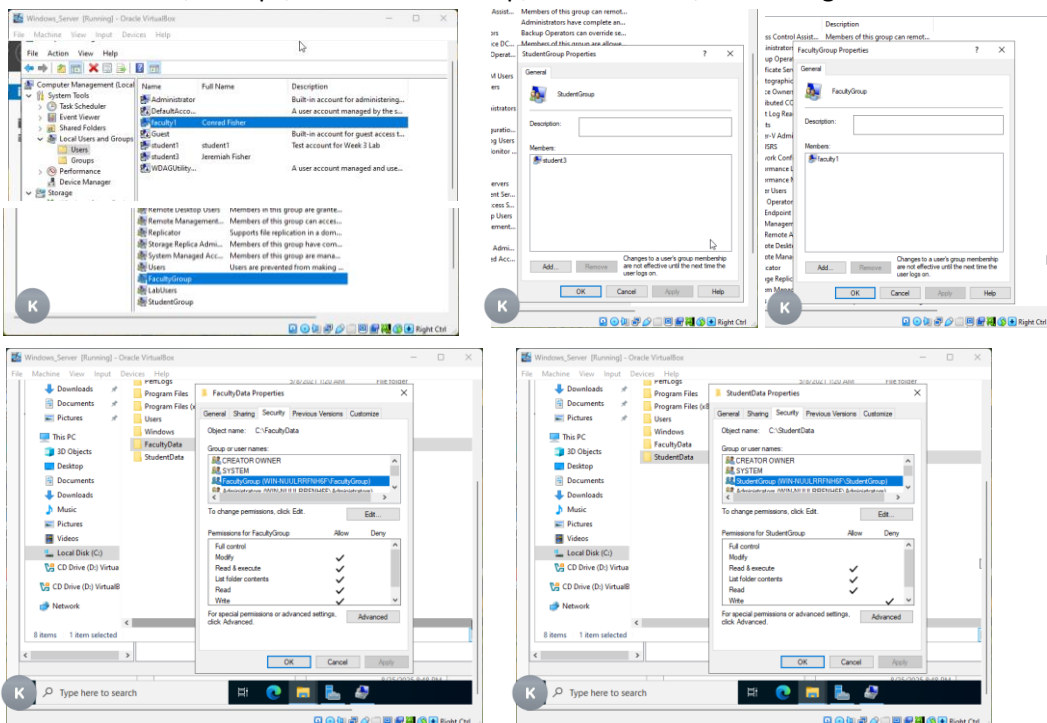
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### Summary Result Ubuntu Linux

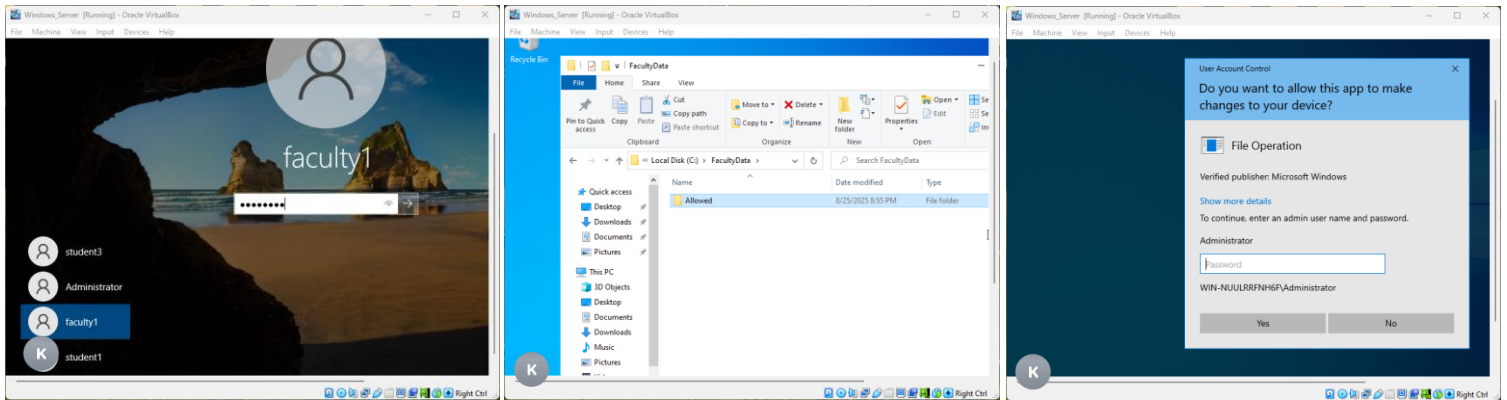
USER	DIRECTORY	ACTION	RESULT
faculty2	/facultydata	create file	allowed
faculty2	/studentdata	creat file	denied
student4	/studentdata	read files	allowed
student4	/studentdata	creat file	denied
student4	/facultydata	access directory	denied

## Procoess in Window Server

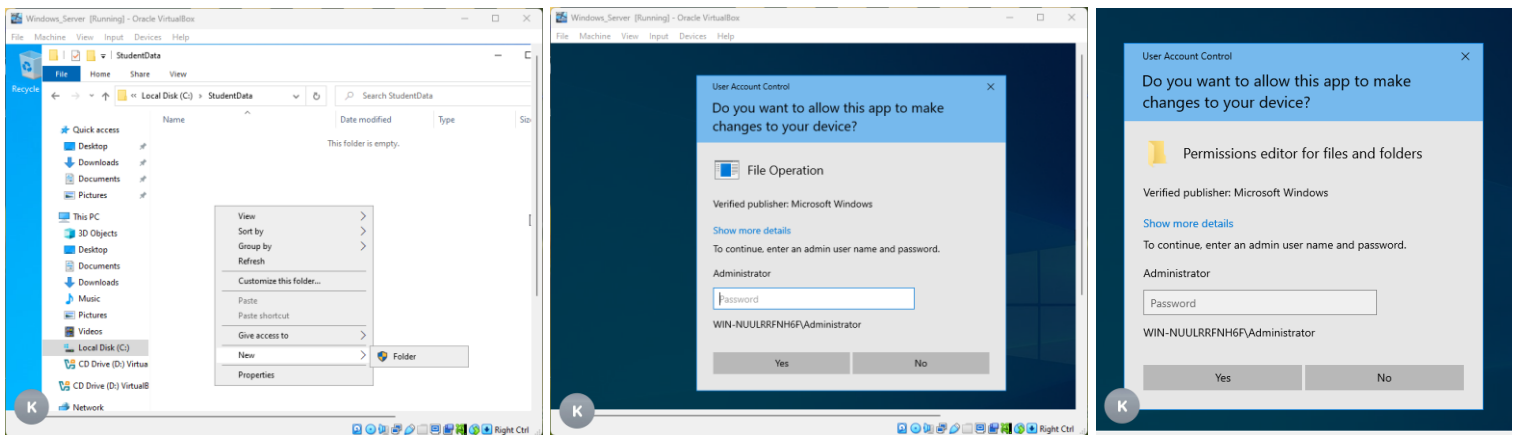
### Create Users, Groups, Add User to Group, Creat Folders, and Configure Permission



## Testing Process



- **faculty1**: Modify access to FacultyData, read-only on StudentData.



- **student3**: Read access to StudentData, no access to FacultyData.