

Lab 03– Navigating

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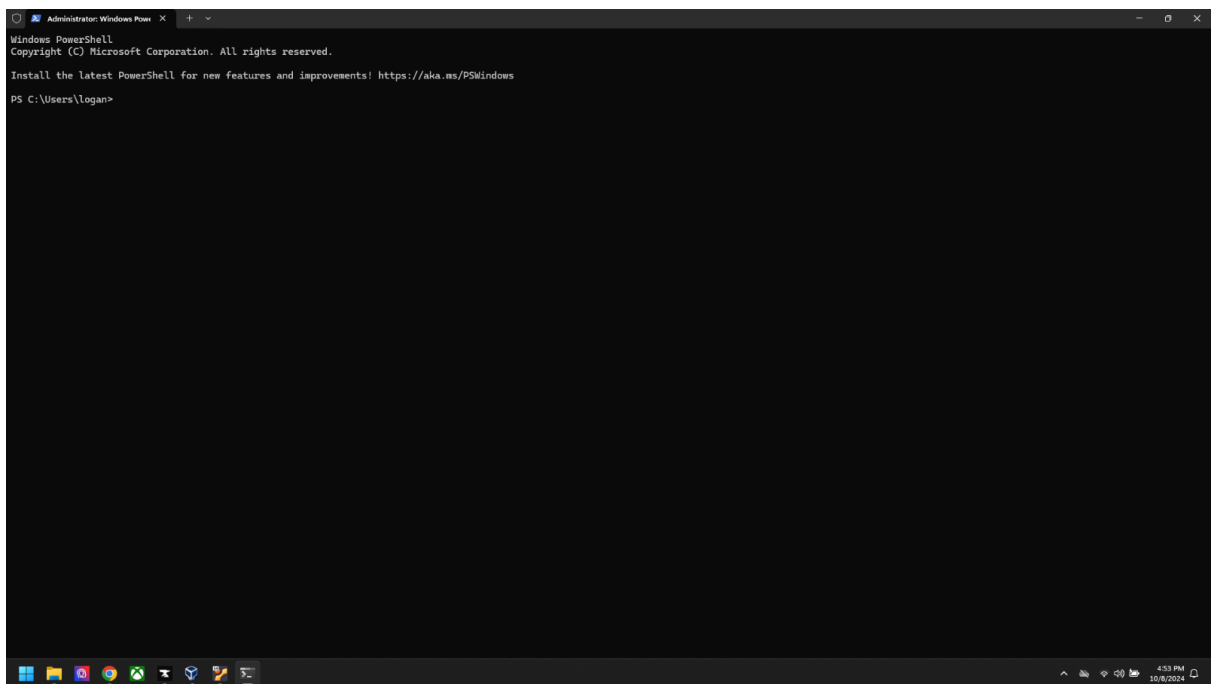
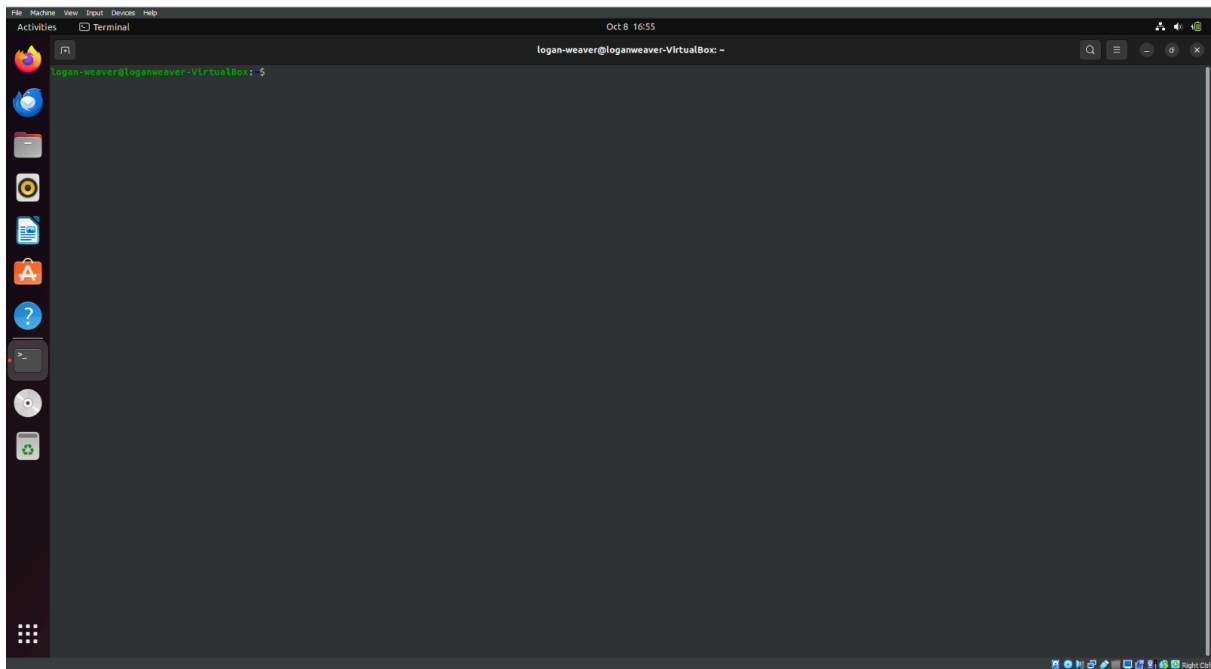
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INTRODUCTION

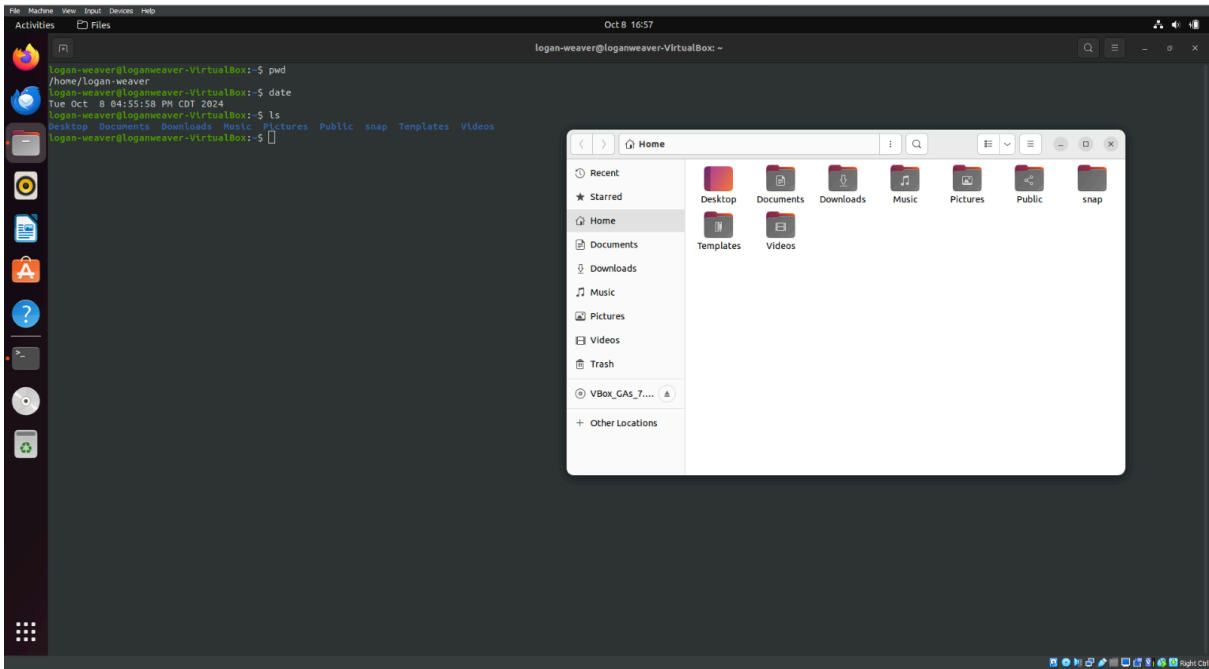
In this lab we gained a deeper understanding of the command line and terminal in Linux and Windows respectively.

BREAKPOINT 1



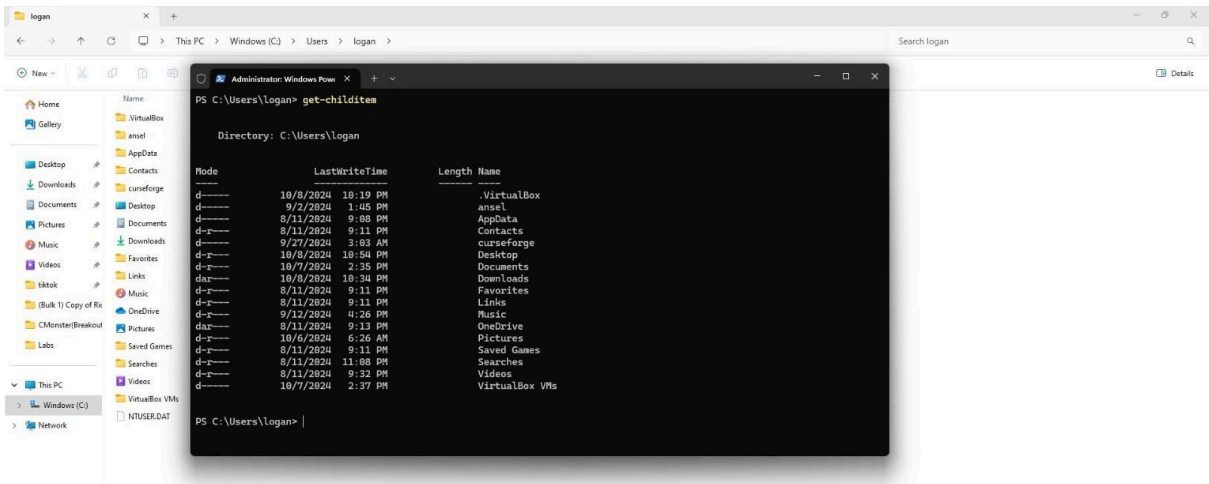
In breakpoint 1 I simply opened the terminal by typing it using the command `ctrl – alt - T` and the command line by typing `Windows key + X` and selecting `Terminal`. I switched my Linux terminal to `tango` theme.

BREAKPOINT 2



Different folders are in my home folder, like documents, screenshots, and pictures. The GUI view is more aesthetically pleasing to view, but the terminal view is more concise.

BREAKPOINT 3



Similar items are in my home folder on windows as the ones on my Linux computer. On the windows computer, folders like desktop, downloads, and pictures are in my home folder.

Path: "C:\Users\logan\Desktop\Labs"

BREAKPOINT 4

```
logan-weaver@loganweaver-VirtualBox:~$ ls -la
total 36
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Sep 17 10:36 Desktop
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Sep 17 10:36 Documents
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Sep 17 10:36 Downloads
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Sep 17 10:36 Music
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Sep 17 10:36 Pictures
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Sep 17 10:36 Public
drwxr-xr-x 4 logan-weaver logan-weaver 4096 Sep 17 17:14 snap
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Sep 17 10:36 Templates
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Sep 17 10:36 Videos
logan-weaver@loganweaver-VirtualBox:~$ echo "Hello, World!"
Hello, World!
logan-weaver@loganweaver-VirtualBox:~$ mkdir IS-1003
logan-weaver@loganweaver-VirtualBox:~$ ls
Desktop  Downloads  Music  Public  Templates
logan-weaver@loganweaver-VirtualBox:~$ cd IS-1003
logan-weaver@loganweaver-VirtualBox:~/IS-1003$ touch test.txt
logan-weaver@loganweaver-VirtualBox:~/IS-1003$ echo "Hello, Again!" >> test.txt
logan-weaver@loganweaver-VirtualBox:~/IS-1003$ cat test.txt
Hello, Again!
logan-weaver@loganweaver-VirtualBox:~/IS-1003$ cd ..
logan-weaver@loganweaver-VirtualBox:~$ mv IS-1003/test.txt test.txt
logan-weaver@loganweaver-VirtualBox:~$ ls
Desktop  Downloads  Music  Public  Templates  Videos
logan-weaver@loganweaver-VirtualBox:~$ cp .bashrc IS-1003/.bashrc-test
logan-weaver@loganweaver-VirtualBox:~$ ls -al IS-1003
total 12
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Oct  8 22:26 .
drwxr-xr-x 17 logan-weaver logan-weaver 4096 Oct  8 22:24 ..
-rw-r--r-- 1 logan-weaver logan-weaver 3771 Oct  8 22:26 .bashrc-test
logan-weaver@loganweaver-VirtualBox:~$ rmdir IS-1003
rmdir: failed to remove 'IS-1003': directory not empty
logan-weaver@loganweaver-VirtualBox:~$ rm IS-1003/.bas*
logan-weaver@loganweaver-VirtualBox:~$ cd IS-1003
logan-weaver@loganweaver-VirtualBox:~/IS-1003$ ls
logan-weaver@loganweaver-VirtualBox:~/IS-1003$ cd ..
logan-weaver@loganweaver-VirtualBox:~$ cd IS-1003
logan-weaver@loganweaver-VirtualBox:~/IS-1003$ ls -al
total 8
drwxr-xr-x 2 logan-weaver logan-weaver 4096 Oct  8 22:28 .
drwxr-xr-x 17 logan-weaver logan-weaver 4096 Oct  8 22:24 ..
```

```
logan-weaver@loganweaver-VirtualBox:~/IS-1003$ history
1  ls
2  sudo ./VBoxLinuxAdditions.run
3  sudo reboot
4  pwd
5  date
6  ls
7  clear
8  ls -la
9  clear
10 ls-al
11 clear
12 ls-al
13 clear
14 ls-l
15 clear
16 ls -a
17 ls -l
18 echo "Hello, World!"
19 mkdir IS-1003
20 ls
21 cd IS-1003
22 touch test.txt
23 echo "Hello, Again!" >> test.txt
24 cat test.txt
25 cd ..
26 mv IS-1003/test.txt test.txt
27 ls
28 cp .bashrc IS-1003/.bashrc-test
29 ls -al IS-1003
30 rmdir IS-1003
31 rm IS-1003/.bas*
32 cd IS-1003
33 ls
34 cd ..
35 cd IS-1003
36 ls -al
37 history
logan-weaver@loganweaver-VirtualBox:~/IS-1003$
```

Ls – a: Lists all files and directories, including hidden ones

Ls –al: Lists all files (including hidden ones) in long format

echo: Outputs a message

mkdir: creates a directory

Touch: Creates an empty folder

Cat: Concatenates and displays the contents of files

mv: Moves and renames files and directories

cp: Copies files and directories

rmdir: Removes empty directories

rm: Removes files and directories

history: displays the command history

BREAKPOINT 5

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\logan> Get-Childitem

Directory: C:\Users\logan

Mode                LastWriteTime         Length Name
----                -
d-----         10/8/2024 10:19 PM             .VirtualBox
d-----         9/2/2024  1:45 PM             anse1
d-----         8/11/2024  9:08 PM             AppData
d-----         8/11/2024  9:11 PM             Contacts
d-----         9/27/2024  3:03 AM             curseforge
d-----         10/8/2024 10:54 PM             Desktop
d-----         10/7/2024  2:35 PM             Documents
d-----         10/8/2024 10:34 PM             Downloads
d-----         8/11/2024  9:11 PM             Favorites
d-----         8/11/2024  9:11 PM             Links
d-----         9/12/2024  4:26 PM             Music
d-----         8/11/2024  9:13 PM             OneDrive
d-----         10/6/2024  6:26 AM             Pictures
d-----         8/11/2024  9:11 PM             Saved Games
d-----         8/11/2024 11:08 PM             Searches
d-----         8/11/2024  9:32 PM             Videos
d-----         10/7/2024  2:37 PM             VirtualBox VMs

PS C:\Users\logan> write-host "Hello, World!"
Hello, World!
PS C:\Users\logan> new-item -name "IS-1003" -itemtype directory

Directory: C:\Users\logan

Mode                LastWriteTime         Length Name
----                -
d-----         10/8/2024 11:23 PM             IS-1003

PS C:\Users\logan>
```

```
set-location IS-1003
PS C:\Users\logan\IS-1003> new-item "test.txt"

Directory: C:\Users\logan\IS-1003

Mode                LastWriteTime         Length Name
----                -
-a-----         10/8/2024 11:24 PM             0 test.txt

PS C:\Users\logan\IS-1003> write-output "Hello, Again!" >> test.txt
PS C:\Users\logan\IS-1003> Get-content test.txt
Hello, Again!
PS C:\Users\logan\IS-1003> set-location -path ..
PS C:\Users\logan> move-item .\IS-1003\test.txt .\test.txt
PS C:\Users\logan> get-location

Path
---
C:\Users\logan

PS C:\Users\logan> get-childitem

Directory: C:\Users\logan

Mode                LastWriteTime         Length Name
----                -
d-----         10/8/2024 10:19 PM             .VirtualBox
d-----         9/2/2024  1:45 PM             anse1
d-----         8/11/2024  9:08 PM             AppData
d-----         8/11/2024  9:11 PM             Contacts
d-----         9/27/2024  3:03 AM             curseforge
d-----         10/8/2024 10:54 PM             Desktop
d-----         10/7/2024  2:35 PM             Documents
d-----         10/8/2024 10:34 PM             Downloads
d-----         8/11/2024  9:11 PM             Favorites
d-----         10/8/2024 11:23 PM             IS-1003
d-----         8/11/2024  9:11 PM             Links
d-----         9/12/2024  4:26 PM             Music
d-----         8/11/2024  9:13 PM             OneDrive
d-----         10/6/2024  6:26 AM             Pictures
d-----         8/11/2024  9:11 PM             Saved Games
d-----         8/11/2024 11:08 PM             Searches
d-----         8/11/2024  9:32 PM             Videos
d-----         10/7/2024  2:37 PM             VirtualBox VMs
-a-----         10/8/2024 11:25 PM             32 test.txt
```

```

PS C:\Users\logan> copy-item -path test.txt -destination IS-1003
PS C:\Users\logan> remove-item IS-1003

Confirm
The item at C:\Users\logan\IS-1003 has children and the Recurse parameter was not specified. If you continue, all
children will be removed with the item. Are you sure you want to continue?
[Y] Yes  [A] Yes to All  [N] No   [L] No to All  [S] Suspend  [?] Help (default is "Y"): Y
PS C:\Users\logan> get-history

Id CommandLine
--
1 Get-Childitem
2 write-host "Hello, World!"
3 new-item -name "IS-1003" -itemtype directory
4 set-location IS-1003
5 new-item "test.txt"
6 write-output "Hello, Again!" >> test.txt
7 Get-content test.txt
8 set-location -path ..
9 move-item .\IS-1003\test.txt .\test.txt
10 get-location
11 get-childitem
12 copy-item -path test.txt -destination IS-1003
13 remove-item IS-1003

PS C:\Users\logan> |

```

I executed similar commands in PowerShell that I executed in my Linux terminal, creating, moving, and removing a file.

Get-ChildItem: lists contents in directory

write-host "Hello, World!": prints string

new-item -name "IS-1003" -itemtype directory: creates a new directory

set-location IS-1003: changes working directory

new-item "test.txt": creates a new file

write-output "Hello, Again!" >> test.txt: appends text to file test.txt

Get-content test.txt: gets contents of test.txt

set-location -path .. : moves directory

move-item .\IS-1003\test.txt .\test.txt: moves file to new directory

get-location: gets location of current directory

get-childitem: lists contents of current directory

copy-item -path test.txt -destination IS-1003: copies file to is-1003 directory

remove-item IS-1003: deletes directory

CONCLUSION

I did not have any challenges besides m typing typos, I had a great time and learned a lot, I find navigating the command line and terminal to be a useful skill.

REFERENCES

R. Mitra, "*Lab 03: Navigating*," The University of Texas at San Antonio (2024). Last accessed: 10/08/2024.

COLLABORATION

I worked alone