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😵 Linux Navigation Guide

Navigation is essential—much like using a mouse in Windows. It allows us to move across the system, work within directories and files, and retrieve exactly what we need. Using a combination of commands and tools, we can efficiently explore and manage our Linux environment.

P Current Directory: pwd

To find out where you are in the system:

cry0l1t3@htb[~]\$ pwd /home/cry011t3

Listing Directory Contents: 1s

To list the contents of the current directory:

```
cry0l1t3@htb[~]$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
```

🔍 Long Listing Format: ls -1

cry0l1t3@htb[~]\$ ls -1

Example Output:

drwxr-xr-x 2 cry0l1t3 htbacademy 4096 Nov 13 17:37 Desktop

Column	Description
drwxr-xr-x	Type and permissions
2	Number of hard links
cry0l1t3	Owner
htbacademy	Group
4096	Size (in bytes or blocks)

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Column	Description
Nov 13 17:37	Last modified date/time
Desktop	Directory/File name

∞ Showing Hidden Files: 1s -1a

```
cry0l1t3@htb[~]$ ls -la
```

This displays all files, including hidden ones starting with . like .bashrc.

Listing a Specific Path

You don't have to be inside a directory to list its contents:

```
cry011t3@htb[~]$ ls -1 /var/
```

Changing Directories: cd

You can move to a directory by specifying its name or full path:

```
cry0l1t3@htb[~]$ cd /dev/shm
```

Return to Previous Directory

```
cry011t3@htb[/dev/shm]$ cd -
```

★ Auto-completion with [TAB]

Using the [TAB] key helps auto-complete paths:

```
cry0l1t3@htb[~]$ cd /dev/s[TAB][TAB]
shm/ snd/
```

Type more letters to narrow it down:

```
cd /dev/shm
```

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Inside a directory:

```
cry0l1t3@htb[/dev/shm]$ ls -la
```

You'll often see:

- . → current directory
- .. → parent directory

♣ Move to Parent Directory

```
cry0l1t3@htb[/dev/shm]$ cd ..
```

Cleaning Up: clear

Return to /dev/shm and clean the terminal:

```
cry0l1t3@htb[/dev]$ cd shm && clear
```

Shortcut

Use [Ctrl] + [L] to clear the terminal screen.

M Command History

- Use ↑ and ↓ arrows to scroll through command history.
- Use [Ctrl] + [R] to **search** through command history.

🔗 Tips

- Experiment often to get comfortable with commands.
- Use a **snapshot** of your VM before major changes.
- Explore different flags and options with commands like 1s, cd, etc.

✓ Summary Commands

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Command	Description
pwd	Show current directory
ls	List contents
ls -1	Long list format
ls -la	Show all, including hidden
cd <dir></dir>	Change directory
cd -	Return to previous directory
cd	Move to parent directory
clear	Clear terminal screen
[Ctrl] + [L]	Clear terminal screen (shortcut)
[Ctrl] + [R]	Search command history
[TAB]	Auto-complete paths/files

Practice makes perfect. Keep exploring, and don't be afraid to try new things.