

Module Navigating and Working with the File System

How to Start Module:

- Before starting the module, Run the <module_script_name> to configure the
 environment and then <module_script_name> to verify you have done the work
 correctly
 - 1. Open a Terminal Window
 - 2. Clone the GitHub repo (If you have already downloaded Github Repo, skip Step2) (https://github.com/milodigwe/Linux_Essentials_m2itech)
 - From the command line type:

 git clone https://github.com/milodigwe/Linux_Essentials_m2itech
 - Once repository is cloned, navigate to the Hands_On Folder and find the script named: navigating_and_working_the_file_system.sh
 - 4. Run the navigating_and_working_the_file_system.sh script: This will configure the environment for the hands-on module
 - sh./navigating_and_working_the_file_system.sh
 - The script will ask you for your public IP of your instance (which you can find in your aws console) and your key_pair (which you downloaded and assigned to instance during the ec2 creation process) to log into your instance.
 - 5. Once the script is finished it will provide you with an output on how to log into the system.
 - Should look like: ssh -i <path to key pair> ec2-user@<ip address>





- 6. Once logged in to the instance, Perform the required tasks below.
- To verify that you have performed the task correctly. You will need to run the navigating_and_working_the_file_system_check.sh script located in /home/ec2-user directory.
 - navigating_and_working_the_file_system_check.sh You must score
 a 100% to pass this module.
- 8. Please Note * Terminate or Stop your instance when not using it.

HAPPY LEARNING!!

Questions:

Lab 1: Listing Directory Contents (ls)

Use the ls command to list the contents of /home/ec2-user/ directory. Identify all files and directories present.

```
[[ec2-user@ip-172-31-92-131 ~]$ ls -lart
total 20
-rw-r--r-. 1 ec2-user ec2-user 492 Jan 28 2023 .bashrc
-rw-r--r-. 1 ec2-user ec2-user 141 Jan 28 2023 .bash_profile
-rw-r--r-. 1 ec2-user ec2-user 18 Jan 28 2023 .bash_logout
drwxr-xr-x. 3 root root 22 Jun 22 14:03 ..
drwx-----. 2 ec2-user ec2-user 29 Jun 22 14:03 .ssh
-rw-----. 1 ec2-user ec2-user 5 Jun 22 14:03 .bash_history
-rw-r--r-- 1 ec2-user ec2-user 1573 Jun 22 14:06 navigate_file_system_check.sh
drwxrwxr-x. 3 ec2-user ec2-user 22 Jun 22 14:06 Testing
drwx-----. 4 ec2-user ec2-user 147 Jun 22 14:06 .
```

Lab 2: Changing Directories (cd)

Task: Navigate to the Navigate to /home/ec2-user/Testing/Navigate Directory.





```
[ec2-user@ip-172-31-92-131 ~]$ cd Testing/Navigate/
[ec2-user@ip-172-31-92-131 Navigate]$ ls -lart
total 0
drwxrwxr-x. 2 ec2-user ec2-user 6 Jun 22 14:06 storage
drwxrwxr-x. 3 ec2-user ec2-user 22 Jun 22 14:06 ..
drwxrwxr-x. 3 ec2-user ec2-user 21 Jun 22 14:06 .
[ec2-user@ip-172-31-92-131 Navigate]$
```

Lab 3: Print Working Directory (pwd)

Task: Use the pwd command to print the full path of your current working directory. **This should display the above: /home/ec2-user/Testing/Navigate Directory**

```
[ec2-user@ip-172-31-92-131 Navigate]$ pwd
/home/ec2-user/Testing/Navigate
[ec2-user@ip-172-31-92-131 Navigate]$ ■
```

Lab 4: Creating Directories (mkdir)

Task: Create a two directories named "lab" and "storage_2" in the /home/ec2-user/Testing/Navigate/ directory using the mkdir command.

```
[[ec2-user@ip-172-31-92-131 ~]$ cd ~/Testing/Navigate/
[[ec2-user@ip-172-31-92-131 Navigate]$ mkdir lab
[[ec2-user@ip-172-31-92-131 Navigate]$ mkdir storage_2
[[ec2-user@ip-172-31-92-131 Navigate]$ pwd
/home/ec2-user/Testing/Navigate
[[ec2-user@ip-172-31-92-131 Navigate]$ ls -lart
total 0
drwxrwxr-x. 3 ec2-user ec2-user 22 Jun 22 14:06 ..
drwxr-xr-x. 2 ec2-user ec2-user 6 Jun 22 14:26 lab
drwxr-xr-x. 2 ec2-user ec2-user 6 Jun 22 14:26 storage_2
drwxrwxr-x. 4 ec2-user ec2-user 34 Jun 22 14:26 .
[ec2-user@ip-172-31-92-131 Navigate]$ ■
```





Lab 5: Removing Directories (rmdir)

Task: Remove the directory called "storage" underneath /home/ec2-user/Testing/Navigate/directory that you created in the previous lab using the rmdir command.

```
[ec2-user@ip-172-31-92-131 Navigate]$ pwd
/home/ec2-user/Testing/Navigate
[ec2-user@ip-172-31-92-131 Navigate]$ rmdir storage
[ec2-user@ip-172-31-92-131 Navigate]$ ls -l
total 0
drwxr-xr-x. 3 ec2-user ec2-user 23 Jun 22 14:13 lab
[ec2-user@ip-172-31-92-131 Navigate]$ pwd
/home/ec2-user/Testing/Navigate
[ec2-user@ip-172-31-92-131 Navigate]$
```

Run Check Script:





[[ec2-user@ip-172-31-92-131 ~]\$ sh ./navigate_file_system_check.sh
1.The lab directory exists in the correct location PASS

2. The storage_2 directory exists in the correct location. PASS

3. The storage directory is deleted. PASS

Score: 3 / 3

Your score is 100%, You have passed this module!! PASS

Number of Correct : 3 / Number of Fail : 0

[ec2-user@ip-172-31-92-131 ~]\$



