Module Viewing Files

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
    3. Once repository is cloned, navigate to the Hands_On Folder and find the script named: **viewing_files.sh**
    4. Run the navigating_and_working_the_file_system.sh script: This will configure the environment for the hands-on module
        - **sh ./viewing_files.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.

7. To verify that you have performed the task correctly. You will need to run the **viewing_files_check.sh** script located in /home/ec2-user directory.
    - **viewing_files_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!!!

Lab 1: Displaying Entire File Contents (cat)
Task: Use the cat command to display the entire contents of a file named "/ /usr/share/dict/linux.words" on the terminal.

```
[ec2-user@ip-172-31-92-131 ~]$ cat /usr/share/dict/linux.words
1080
10-point
10th
11-point
12-point
16-point
18-point
1st
2
```

Lab 2: Viewing Text Files Page by Page (more)
Task: Use the more command to view the contents of a text file named “services” in /etc/ page by page. Use the Spacebar to Tab through the file.

```
[ec2-user@ip-172-31-30-172 ~]$ more /etc/services
# /etc/services:
# $Id: services,v 1.49 2017/08/18 12:43:23 ovasik Exp $
#
# Network services, Internet style
# IANA services version: last updated 2016-07-08
```

Lab 3: Viewing Text Files with Scrolling Capability (less)
Task: Use the less command to view the contents of a text file named "words" in /usr/share/dict/ with scrolling capability. Use the Spacebar to Tab through the file.

```
[ec2-user@ip-172-31-30-172 ~]$ less /usr/share/dict/words
```

Lab 4: Text Editing Files (vi)
Task: Create a text file named "notes.txt" for editing using the vi text editor. Add some sample text and save the changes. Place notes.txt file inside the "results" directory in your home directory /home/ec2-user.

```
[ec2-user@ip-172-31-92-131 ~]$ cd results/
[ec2-user@ip-172-31-92-131 results]$ vi notes.txt
[ec2-user@ip-172-31-92-131 results]$ pwd
/home/ec2-user/results
[ec2-user@ip-172-31-92-131 results]$ ls -lart
total 56
-rwxr-xr-x. 1 ec2-user ec2-user 33000 Jun 22 15:49 tty
-rw-r--r--. 1 ec2-user ec2-user    13 Jun 22 15:58 notes.txt
drwx------. 8 ec2-user ec2-user 16384 Jun 22 15:58 ..
drwxrwxr-x. 2 ec2-user ec2-user    34 Jun 22 15:58 .
[ec2-user@ip-172-31-92-131 results]$
```

Lab 5: Viewing Files in Read-Only Mode (view)
Task: Use the view command to open a read-only view of a text file named "notes.txt".

```
[ec2-user@ip-172-31-30-172 results]$ view notes.txt
Hello World
~
~
```

Lab 6: Searching for Files (find)

Task: Use the find command to search for the file called tty and shred in /usr/bin directory. Copy the file found to the /home/ec2-user/results directory. **Note You can do this running find command twice

```
[ec2-user@ip-172-31-92-131 ~]$ find /usr/bin -type f -iname tty
/usr/bin/tty
```

```
[ec2-user@ip-172-31-92-131 ~]$ find /usr/bin -type f -iname tty -exec ls "{}" \;
/usr/bin/tty
[ec2-user@ip-172-31-92-131 ~]$ find /usr/bin -type f -iname tty -exec cp "{}" ~/results \;
[ec2-user@ip-172-31-92-131 ~]$
```

```
[ec2-user@ip-172-31-92-131 ~]$ ls -l ~/results/
total 36
-rwxr-xr-x. 1 ec2-user ec2-user 33000 Jun 22 15:49 tty
[ec2-user@ip-172-31-92-131 ~]$
```

Lab 7: Create Archival (tar)

Task: Use the tar command to create an archive of the /home/ec2-user/redhat directory. Name the archive file redhat.tar.gz and place this file inside of the “results” directory in your home directory

```
[ec2-user@ip-172-31-92-131 ~]$ tar -cvzf redhat.tar.gz redhat/
redhat/
[ec2-user@ip-172-31-92-131 ~]$ ls -lart
total 64
-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
drwxrwxr-x. 3 ec2-user ec2-user    22 Jun 22 14:06 Testing
drwxr-xr-x. 3 ec2-user ec2-user    22 Jun 22 14:12 home
-rw-r--r--. 1 ec2-user ec2-user  3189 Jun 22 14:52 working_with_files_check.sh
-rw-r--r--. 1 ec2-user ec2-user  1582 Jun 22 14:54 navigate_file_system_check.sh
-rw-r--r--. 1 ec2-user ec2-user     0 Jun 22 14:58 day1
-rw-r--r--. 1 ec2-user ec2-user     0 Jun 22 14:58 day2
-rw-r--r--. 1 ec2-user ec2-user     0 Jun 22 14:58 day3
-rw-r--r--. 1 ec2-user ec2-user     0 Jun 22 14:58 day4
drwxr-xr-x. 2 ec2-user ec2-user    30 Jun 22 15:00 World_Cup
-rw-------. 1 ec2-user ec2-user  1399 Jun 22 15:40 .bash_history
drwxrwxr-x. 2 ec2-user ec2-user     6 Jun 22 15:40 redhat
-rw-------. 1 ec2-user ec2-user    20 Jun 22 15:44 .lesshst
-rw-r--r--. 1 ec2-user ec2-user  2164 Jun 22 15:57 viewing_files_check.sh
drwxrwxr-x. 2 ec2-user ec2-user    34 Jun 22 15:58 results
-rw-------. 1 ec2-user ec2-user 11078 Jun 22 15:58 .viminfo
-rw-r--r--. 1 ec2-user ec2-user   117 Jun 22 16:01 redhat.tar.gz
drwx------. 8 ec2-user ec2-user 16384 Jun 22 16:01 .
[ec2-user@ip-172-31-92-131 ~]$
```

```
[ec2-user@ip-172-31-92-131 ~]$ mv redhat.tar.gz results/
[ec2-user@ip-172-31-92-131 ~]$ cd results/
[ec2-user@ip-172-31-92-131 results]$ ls -l
total 44
-rw-r--r--. 1 ec2-user ec2-user    13 Jun 22 15:58 notes.txt
-rw-r--r--. 1 ec2-user ec2-user   117 Jun 22 16:01 redhat.tar.gz
-rwxr-xr-x. 1 ec2-user ec2-user 33000 Jun 22 15:49 tty
[ec2-user@ip-172-31-92-131 results]$
```

Run Check Script:

```
[ec2-user@ip-172-31-30-172 ~]$ sh ./viewing_files_check.sh
1. The notes file does exist in results directory. PASS
PASS

2. The file redhat.tar.gz exist in the redhat directory. PASS
PASS

3. The tty file exists in the results directory PASS
PASS

Score: 3 / 3
Your score is 100%, You have passed this module!!

Number of Correct : 3 / Number of Fail : 0 PASS
```