



```
330: /usr$  
330: /usr$  
330: /usr$  
330: /usr$  
330: /usr$  
330: /usr$  
330: /usr$ mkdir MainF  
te directory 'MainF  
330: /usr$ sudo mkti  
r paolo:  
330: /usr$ ls  
e lib local local  
330: /usr$
```

---

# INTRODUCTION TO LINUX COMMANDS IN CYBER SECURITY

## IN THIS EDITION

Before you can start creating scripts, it is important to know how a console works under Linux.

To achieve this, we offer two complementary activities in the online course Introduction to Linux commands.

You will find the activities in this guide without any additional information. It is therefore recommended that you take the online course to get all the necessary details.



<https://learn.brilliantlabs.ca/courses/course-v1:BL+CYSEC-BASIC-ACT-02+9999/about>

# TABLE OF CONTENT

<b>In this Edition</b>	<b>i</b>
<b>Activity A : Folder Structure</b>	<b>1</b>
<b>Activity A : A Solution</b>	<b>2</b>
<b>Activity B : Creation of a File that Contain Text</b>	<b>3</b>
<b>Activity B : A Solution</b>	<b>5</b>

# ACTIVITY A

## FOLDER STRUCTURE

Now that you've got a few commands under your belt, here's a little exercise to put them into practice.

### Instructions

Using the commands you have learned so far, create the following folder structure:

```
/home/brilliant/  
├── Act_1  
│   ├── Cyber  
│   │   └── newsletters.letter  
│   ├── Hacker  
│   │   ├── Anonymous.everywhere  
│   │   ├── CaptainCrunch.usa  
│   │   ├── Mafiaboy.montreal  
│   │   └── Mitnick.usa  
│   ├── Rootkits  
│   │   ├── bios.kit  
│   │   └── kernel.kit  
│   ├── Virus  
│   │   ├── iloveyou.exe  
│   │   ├── msblaster.exe  
│   │   └── wannacry.exe  
│   └── Worms  
  
6 directories, 10 files
```

Folder Structure to Reproduce



This activity is linked to  
an online course



Find the solutions on  
the next page.

## ACTIVITY A: A SOLUTION

Here is a possible solution. Other solutions exist. The goal is to obtain the desired result. If you have created your folders and files, you can consider the goal as completed.

```
tc@box:/home/brilliant$ mkdir Act_1
tc@box:/home/brilliant$ cd Act_1/
tc@box:/home/brilliant/Act_1$ mkdir Cyber Hacker Rootkits Virus Worms
tc@box:/home/brilliant/Act_1$ cd Cyber/
tc@box:/home/brilliant/Act_1/Cyber$ touch newsletters.letter
tc@box:/home/brilliant/Act_1/Cyber$ cd ../Hacker/
tc@box:/home/brilliant/Act_1/Hacker$ touch Anonymous.everywhere CaptainCrunch.us
a Mafiaboy.montreal Mitnick.usa
tc@box:/home/brilliant/Act_1/Hacker$ cd ../Rootkits/
tc@box:/home/brilliant/Act_1/Rootkits$ touch bios.kit
tc@box:/home/brilliant/Act_1/Rootkits$ kernel.kit
-sh: kernel.kit: not found
tc@box:/home/brilliant/Act_1/Rootkits$ touch kernel.kit
tc@box:/home/brilliant/Act_1/Rootkits$ cd ../Virus/
tc@box:/home/brilliant/Act_1/Virus$ touch iloveyou.exe
tc@box:/home/brilliant/Act_1/Virus$ touch msblaster.exe
tc@box:/home/brilliant/Act_1/Virus$ touch wannacry.exe
tc@box:/home/brilliant/Act_1/Virus$
```

### Solution - Activity A



You will notice that there is a small error. You should have written `touch kernel.kit` instead of `kernel.kit`.

## ACTIVITY B

# CREATION OF A FILE THAT CONTAIN TEXT

In cyber security, it is important to know how to insert text into a file. This task may seem simple, but it is a little less so in console mode. With this knowledge in mind, you will be able to use this practice to eventually create log files that are very important in cyber security.

### Instructions

Using the **echo** command and the **>** and **>>** symbols, insert the text for each statement into a file. Check the result with the **cat** command

### Example

```
tc@box:/home/brilliant$ echo "Give Kali Linux!">kali.txt
tc@box:/home/brilliant$ cat kali.txt
Give Kali Linux!
```

The Command echo to insert text

### Additional Information

When you use the **>** symbol the text will be added to the first line of the file. If there is already text in the file, the text will be deleted and replaced by the desired text.

When you use the **>>** symbol the text will be added to the next line and the previous text will be saved.



## Exercices

Text to Insert	Filename
1. Cybersecurity is an exciting field.	cyber.txt
2. There are several specializations in the field of cybersecurity.	cyber.txt
3. One must act ethically when using the tools in Kali Linux.	ethic.txt
4. We are here to help defeat those who have bad intentions.	our-goal.txt



Find the solutions on  
the next page.

## ACTIVITY B : A SOLUTION

Here is a possible solution. Other solutions exist. The goal is to obtain the desired result. If you have created your files with the necessary text, using the echo command, you can consider the goal as completed.

```
~/Act_B$ echo "Cybersecurity is an exciting field">cyber.txt
```

Solution - Number 1

```
~/Act_B$ echo "There are several specializations in the field of cybersecurity">>cyber.txt
```

Solution - Number 2

```
~/Act_B$ echo "One must act ethically when using the tools in Kali Linux.">ethic.txt
```

Solution - Number 3

```
~/Act_B$ echo "We are here to help defeat those who have bad intentions.">our-goal.txt
```

Solution - Number 4