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walkthrough

0 of 1

Demo lesson

Type `ls` to see files and folders in the current directory.

Next



Loading...

~\$ pwd

/home/whitehat

~\$ cd

~\$ ls

bash: ls: command not found

~\$ ls

~\$

Customize content - Security Lab x

Introduction to Bash 1 - Security x

JogTrax - Stats x


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## Basic terminal usage

Introduction to Bash 1

Customize


Preview

 Shell commands to navigate around directories and modify files.

Introduction to Bash 2

Customize


Preview

 Navigate files and folders more efficiently, and search for file contents.

Introduction to Bash 3

Customize

Preview


 Preview the contents of files; create new folders and move files around.

## Intermediate terminal usage

Encrypting, encoding and hashing

Customize

Preview

 Common encoding patterns, cryptographic techniques, and command line tools.

Nano for text editing

## Basic terminal usage

### Introduction to Bash 1

[Customize](#)[Preview](#)

Shell commands to navigate around directories and modify files.



## Introduction to Bash 1

5 of 5

### Display text and write to files

Use `echo hi` to display the text "hi" in the terminal.

The "redirection operator" `>` can redirect output to a new location. Run `echo hi > file3` to write the text "hi" into `file3`. Use `cat file3` to read back the contents of the file, which should display hi.

Previous

Next

Terminal

Code Editor

Loading...

Cleaning up previous session...

```
~$ pwd
/home/whitehat
~$ ls
~$ ls-a
bash: ls-a: command not found
~$ ls -a
.  .. .bash_logout .bashrc .profile .secret .vimrc
~$ ls .secret/
file1 file2
~$ cd .secret/
~/secret$ pwd
/home/whitehat/.secret
~/secret$ ls
file1 file2
~/secret$ cat file1
hello!
~/secret$ touch file3
~/secret$ rm file2
```

Customize content - Security Lab x Introduction to Bash 1 - Security x JogTrax - Stats

https://securitylabs.veracode.com/lesson/introduction-to-bash-1

Cleaning up previous session...

```
~$ pwd
/home/whitehat
~$ ls
~$ ls-a
bash: ls-a: command not found
~$ ls -a
.  ..  .bash_logout  .bashrc  .profile  .secret  .vimrc
~$ ls .secret/
file1  file2
~$ cd .secret/
~/secret$ pwd
/home/whitehat/.secret
~/secret$ ls
file1  file2
~/secret$ cat file1
hello!
~/secret$ touch file3
~/secret$ rm file2
~/secret$ ls
file1  file3
~/secret$ echo hi
hi
~/secret$ >
bash: syntax error near unexpected token `newline'
~/secret$ echo hi > file3
~/secret$ cat file3
hi
~/secret$
```

## Introduction to Bash 2

[Customize](#)

[Preview](#)



Navigate files and folders more efficiently, and search for file contents.

```
Loading...
~$ ls -a
.  ..  .bash_logout  .bashrc  .profile  .vimrc  folder1  folder2
~$ cd .
~$ cd folder1
~/folder1$ cd ..
~$ pwd
/home/whitehat
~$ cd .
~$ pwd
/home/whitehat
~$ ..
bash: ..: command not found
~$ cd .
~$ cd ../folder2
bash: cd: ../folder2: No such file or directory
~$ cd
~$ cd ../folder2
bash: cd: ../folder2: No such file or directory
~$ ..
bash: ..: command not found
~$ cd
~$ cd .
~$ cd ../folder2
bash: cd: ../folder2: No such file or directory
~$ cd ../folder2 .
bash: cd: too many arguments
~$ cd
~$ cd ../folder2
bash: cd: ../folder2: No such file or directory
```



```
~$ cd ../folder2 .
bash: cd: too many arguments
~$ cd
~$ cd ../folder2
bash: cd: ../folder2: No such file or directory
~$ ../../..
bash: ../../..: Is a directory
~$ ls
folder1  folder2
~$ ls-a
bash: ls-a: command not found
~$ ls -a
.  ..  .bash_logout  .bashrc  .profile  .vimrc  folder1  folder2
~$ ls -a -1
.
..
.bash_logout
.bashrc
.profile
.vimrc
folder1
folder2
~$ ls -1 -a
.
..
.bash_logout
.bashrc
.profile
.vimrc
folder1
```

```
folder1
folder2
~$ ls -l -a
.
..
.bash_logout
.bashrc
.profile
.vimrc
folder1
folder2
~$ ls -la
total 40
drwxr-xr-x 1 whitehat whitehat 4096 Dec 12 05:48 .
drwxr-xr-x 1 root      root      4096 Nov 16 2020 ..
-rw-r--r-- 1 whitehat whitehat 220 Apr 18 2019 .bash_logout
-rw-r--r-- 1 whitehat whitehat 3604 Nov 16 2020 .bashrc
-rw-r--r-- 1 whitehat whitehat 807 Apr 18 2019 .profile
-rw-r--r-- 1 whitehat whitehat 106 Nov 16 2020 .vimrc
drwxr-xr-x 2 whitehat whitehat 4096 Dec 12 05:48 folder1
drwxr-xr-x 2 whitehat whitehat 4096 Dec 12 05:48 folder2
~$ ls -al
total 40
drwxr-xr-x 1 whitehat whitehat 4096 Dec 12 05:48 .
drwxr-xr-x 1 root      root      4096 Nov 16 2020 ..
-rw-r--r-- 1 whitehat whitehat 220 Apr 18 2019 .bash_logout
-rw-r--r-- 1 whitehat whitehat 3604 Nov 16 2020 .bashrc
-rw-r--r-- 1 whitehat whitehat 807 Apr 18 2019 .profile
-rw-r--r-- 1 whitehat whitehat 106 Nov 16 2020 .vimrc
drwxr-xr-x 2 whitehat whitehat 4096 Dec 12 05:48 folder1
```

folder1 folder2

~\$ ls -l

folder1

folder2

~\$ ls -l

folder1

folder2

~\$ a

bash: a: command not found

~\$ 1

bash: 1: command not found

~\$ ls

folder1 folder2

~\$ ls -l

folder1

folder2

~\$ ls -al

total 40

drwxr-xr-x 1 whitehat whitehat 4096 Dec 12 05:48 .

drwxr-xr-x 1 root root 4096 Nov 16 2020 ..

-rw-r--r-- 1 whitehat whitehat 220 Apr 18 2019 .bash\_logout

-rw-r--r-- 1 whitehat whitehat 3604 Nov 16 2020 .bashrc

-rw-r--r-- 1 whitehat whitehat 807 Apr 18 2019 .profile

-rw-r--r-- 1 whitehat whitehat 106 Nov 16 2020 .vimrc

drwxr-xr-x 2 whitehat whitehat 4096 Dec 12 05:48 folder1

drwxr-xr-x 2 whitehat whitehat 4096 Dec 12 05:48 folder2

~\$ ls -l

folder1

folder2

~\$ Finish

[Customize](#)

[Preview](#)



Navigate files and folders more efficiently, and search for file contents.

## Introduction to Bash 3

[Customize](#)

[Preview](#)



Preview the contents of files; create new folders and move files around.

## Intermediate terminal usage

Loading...

~\$ cat archives/file1

Here is one line of text.

This is another one.

THIS ONE IS LOUD!

This line doesn't use the same 'O' word.

Another one.

And another.

And another...

And another.....

And another.....

And another.....

This is the last one.

~\$ head archives/file1

Here is one line of text.

This is another one.

THIS ONE IS LOUD!

This line doesn't use the same 'O' word.

Another one.

And another.

And another...

And another.....

And another.....

And another.....

~\$ head -n3 archives/file1

Here is one line of text.

This is another one.

THIS ONE IS LOUD!

~\$ grep one archives/file1

Here is one line of text.

```
This is another one.  
THIS ONE IS LOUD!  
Another one.  
This is the last one.  
~$ mkdir posts  
~$ ls  
archives  posts  
~$ grep  
Usage: grep [OPTION]... PATTERNS [FILE]...  
Try 'grep --help' for more information.  
~$ ls | grep posts  
posts  
~$ ls | grep notreal  
~$ ls  
archives  posts  
~$ ls | grep notreal  
~$ cp  
cp: missing file operand  
Try 'cp --help' for more information.  
~$ mv  
mv: missing file operand  
Try 'mv --help' for more information.  
~$ cp archives/fole1 posts/file1  
cp: cannot stat 'archives/fole1': No such file or directory  
~$ cp archives/file1 posts/file1  
~$ ^C  
~$ ls  
archives  posts  
~$ cat  
mv archives/file1 posts/file2
```