



ABC IT Education

WE'LL TAKE YOU FROM ZERO TO HERO IN A SNAP

Linux Systems Administration

Homework 5



Use your Home Centos for this Home work

show the command that will answer each

Using the 'training' directory created in the last home work

```
$ cd ~/training
```

1. Set the permissions of all the files under the 'students' directory to read, write, execute for all user groups, using a wild card eg * or ?.

```
$ chmod 777 students/*
```

2. Create a 'jamesin' directory under the 'students' directory.

```
$ mkdir students/jamesin
```

3. What are the default permissions of the 'jamesin' directory? Given the default permissions what is the umask and how would you find it?

```
-rwxrwxr-x or 775
```

```
Umask will be 0002
```

```
$ umask
```

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4. Change directory to the 'jamesin' directory, then create a file called linux using the Nano Editor. In the file enter the test "I am studying Linux Systems Administration", save and exit

```
$ cd students/jamesin
```

```
$ nano linux
```

5. Show 2 ways to find the Linux groups you belong to.

```
$ id -Gn
```

```
$ groups ( for your own groups )
```

```
$ groups <username> ( for yours or any other person's _
```

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6. Using 2 methods, find the `.bash_history` file in your system.

```
$ locate .bash_history
```

```
$ find ~ -name .bash_history
```

7. Beginning from your home directory

- a. Find all files that contain 'in' in their name.

```
$ find ~ -name '*in*'
```

- b. Find all directories only that contain 'in' in their name.

```
$ find ~ -type d -name '*in*'
```

- c. Find all files newer than the `.bash_profile` file

```
$ find ~ -newer .bash_profile
```

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7. Beginning from your home directory

d. Find all files older than 8 days but less that 15 days

```
$ find -mtime +8 -mtime -15
```

e. Find all files less that 1 Megabyte in size

```
$ find . -size -1M
```

8. What are the default file and directory permissions if the umask is 0077?

Default file permissions 600 and directory permissions 700

9. If my current umask is 0022 and I want to set it to 0002, how would I do that?

```
$ umask 0002
```

Use your Home Centos for this Home work show the command that will answer each

10. Convert the permissions below from Octal to String (rwx)

(i) 444 (ii) 540 (iii) 644

(i) `-r--r--r--` (ii) `-r-xr-----` (iii) `-rw-r--r--`

11. Convert the permissions below from String (rwx) to Octal

(i) `rw-rw-r--` (ii) `rw-r-x--x` (iii) `rw-rw-rw-`

(i) 764 (ii) 751 (iii) 666

GOOD LUCK & Happy Linuxing