2 day class

Files And Operation

File

- ## What is Files ?
  - Files are collections of data or information that are organized and stored in a specific format .

- ## What is Extensions ?
  - added to the end of a filename to indicate the type or format of the file

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File Creation With Def Methods

➤ 'touch' command: The 'touch' command is used to create an empty file or update the access and modification timestamps of an existing file. To create a new file, simply run the command 'touch filename' where 'filename' is the name of the file you want to create.
➤ Example: touch myfile.txt

➤ text editor: You can also create a file using a text editor like Vim, Nano, or Emacs. Open the editor and save the file with the desired filename.
➤ Example: nano myfile.txt

➤ echo "Hello" > myfile.txt

➤ cat > myfile.txt

➤ echo "This is some content" >> myfile.txt

Extensions

File Extensions in Linux

- .sh - Shell script
- .h - Header file
- .tar.gz - Compressed archive file (gzip compressed tarball)
- .zip - Zip archive file
- .iso - ISO image file (typically used for installation disks)
- .deb - Debian package file (used for package installation in Debian-based systems)

File Extensions in Win10

- .zip - Zip archive file
- .iso - ISO image file (typically used for installation disks)
- exe: This file extension represents an executable file
- .dll: DLL stands for Dynamic Link Library
- .bat: Short for Batch File, it is a script file that contains a series of commands that are executed in sequence.

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Permission's of Users

○The first set of three characters "rwx" refers to the owner's permissions, where "r" represents read, "w" represents write, and "x" represents execute.

○The second set of three characters "r-x" refers to the group's permissions. The group has read and execute permissions, but not write permission.

○The third set of three characters "r-x" refers to the others' permissions, which are users not in the owner's group. They also have read and execute permissions, but not write permission.

```
root@kali:/opt/script# ls -l
total 12
-rw-r--r-- 1 root root  101 Aug 28 04:50 config.ini
-rw-r--r-- 1 root root 1769 Aug 28 06:29 email_sender.py
-rw-r--r-- 1 root root 1097 Aug 18 14:03 send_email.py
root@kali:/opt/script#
```

Permissions for a file

1 Read →→→→→→→→→→→→→→ chmod 400 <file> Here is Chmod stands for "change mode".   400 is used to give read permission to file start with -r--------.

2 Write →→→→→→→→→→→→→→ chmod 200 <file> Here is Chmod stands for "change mode".   200 is used to give 200 permission to file start with -w--------.

3 Execute →→→→→→→→→→→→→ chmod +x filename Here is Chmod stands for "change mode". +x is used to give excute permission to file start with -w--------.

To Give All Permission of a file we use chmod 777 filename

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THANK YOU

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