

Daily Linux Class Notes

Importance of files in Linux?

In Linux everything we consider as file because, whenever you start working on Linux you have to deal with different kinds of files and you need to manage effectively.

Types of files in Linux?

- 1. Regular files or ordinary files**
- 2. Special files**
- 3. Directory files**

1. Regular files or ordinary files

Readable text files, Binary files, Image files, compressed file
Audio files, videos files text files we consider as regular files or ordinary files in linux environment.

2.Special files

There are 5 types of Special files which are all system related files.

1. Block files ...
2. Character files
3. Pipe files
4. Symbolic link files
5. Socket files

3.Directory files

Directory files are also considered as a files only in linux.

The purpose of directory files used to store regular files and special files.

How to create a files in Linux?

1. By using touch
2. By using echo
3. By using cat
4. By using nano
5. By using vim

What is touch ?

Touch is a command



It is used to create an empty files in Linux

Single file creation by using touch:

1. Syntax: touch file1

Press enter button

file1 will be created automatically

If you want to check the file use ls -l

Multiple files creation by using touch:

2. Syntax: touch file{1..100}

Press enter button

file1, file2, file3, file4...file100 will be created automatically

If you want to check the file use ls -l

All these files are empty files are zero bytes files only.

By using touch we can create only empty files..(no data exist)

What is cat?

Cat is a command

It is used to create files with some data in Linux

1. By using cat command we can **create** files
2. By using cat command we can **display** data in a file
3. By using cat command we can **add** new data into a file
4. By using cat command we can **concatenate** files

By using cat command we can **create file**

Syntax: cat > file1

Press enter button

Write some data into file

Save data into a file & exit a file

Just use → ctrl+d

Press enter button

file1 will be created automatically

If you want to check the file use ls -l

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By using cat command we can also disply file data

Syntax: cat file1

Press enter button

file1 data will be displayed on screen

If you want to check the file use ls -l

By using cat command we can append or add data into files Without distributing existing data we can add new data

Syntax: cat >> file1

Press enter button

Write some new data into file

Save data into a file & exit a file

Just use → ctrl+d

Press enter button

file1 will be created automatically

By using cat command we can concatenete files

(here file1 and file2 there are two files having data)

Syntax: cat file1 file2

Press enter button

It combines two files data and

two files output data will be displayed on screen automatically

By using cat command we can concatenate files and we can also take backup that files data also.

here file1 and file2 there are two files having data

I want to write these two files data into file3

Means I want to take backup this data

Observer carefully But file3 is not existing

Syntax: cat file1 file2 > file3

Press enter button

It combines file1 & file2 data

two output data will be written or stored into file3 automatically

Means 3 things happening here

1. file1 file2 Concatenation

2. new file3 creation

3. file1 and file2 data will be stored into newly created file3

So, check the file3 data....using just **cat file3**

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What is echo?

echo is a command

It is used to create files with some data in Linux

1. By using cat command we can **create** files
2. By using cat command we can **add** data in a file

By using cat command we can **create file**

Syntax: echo "welcome to Linux" > file1

Press enter button

The data will be stored into file
to display file1 data

Just use → cat file1 Press enter button

file1 will be displayed on screen automatically

If you want to check the file use ls -l

By using echo command we can **append or add data into files Without distributing existing data we can add new data**

Syntax: echo "welcome to aws cloud" >> file1

new data will be stored into file1

Press enter button

New data will be added into file1 automatically

By using cat command we can display your file data

Just use →cat file1

What is nano?

nano is a command

It is used to create files with some data in Linux

1. By using nano command we can **create** files
2. By using nano command we can **modify** data in a file
3. By using nano command we can **add** data in a file
4. By using nano command we can **delete** data in a file

1.nano file1

Press enter button

Write some data into file

Save this data into file and exit from a file

Press ctrl+o

Press Enter

press ctrl+x

so, automatically file1 data will be saved and file1 will be closed .

What is vim?

Vim is a most popular widely used text editor tool Linux

Vim stands for visual display improved

Vim is an upgrade version of vi tool (old one)

Vim tool is a updated tool

It is used to create files with some data in Linux

1. By using nano command we can **create** files
2. By using nano command we can **modify** data in a file
3. By using nano command we can **add** data in a file
4. By using nano command we can **delete** data in a file

1.vim file1

Press enter button

Whenever you create a file or open any file using vim

All files opens in command mode only

If the file is in command modeit is not possible to enter any data into this file...

**So, If you want enter any data into a file
...the file must be in insert mode**

Just press "i" then the file1 will be in insert mode

If the file is in insert mode you can enter any data into file

You can modify data in a file

You can delete data from a file

You can add new data into a file

Like this you can perform any operation thing on these file

Write some data into file

Save this data into file and exit from a file

Just press "esc key" then the file1 will be in command mode

Now, you can perform any operation on the file

Just type ":x" and press enter button

so, automatically file1 data will be saved and file1 will be closed .

What is ls ? Purpose of ls ? use of ls ?

ls is a command in linux

ls stands for list

it is used to display all files and directories on screen

ls → it displays all your files and directories just normal

ls -l (ls space l)

→ it displays complete information about all your files and directories

It gives complete information like...

Type of file or directory

Permissions of file or directory

Memory block number of a file or directory

Owner of file or directory

Creator of file or directory

Size of file or directory

Data of creation of file or directory

Time of creation file or directory

File name or directory



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DevOps is not a Technology. DevOps is a process to automate each and every stage of SDLC phases using different kinds of Automation Tools Like Git, Github, Jenkins, Maven, Ansible, Terraform, Shell, Yaml Scripting, sonarQube, Nagios, Zabbix, Prometheus, Docker, Kubernetes, Splunk etc.. Learning DevOps is nothing but you will become an Automation Expert. Cloud & DevOps Combinations gives 100% Job Guarantee. Production Deployment time has been increased very much faster So, Business Clients & Many Organizations like DevOps. It is very highly Demand & Trending Skill Set Current IT Industry. Job Market is always good for DevOps.

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