

# \* Basic linux commands - pipes and Redirects (CLI - part 3)

## \* Input, output and pipes in linux.

every program has: Input  
Output.

- The output from one program can become the input of another command.

command — output

↓  
input → command → output

↓  
input → command

- ① I want to display syslogs in CLI in more convenient way.

cat → [output]

[input] → less → [output]

↓  
display  
large content  
page by  
page

pipe command → |

- pipes the output of the previous command as an input to the next command.

less

- Display the contents of a file or a command output, one page at a time

→ allow you to navigate forward and backward through the file

→ mostly used for opening large files, as less doesn't read the entire file which results

faster load times.

```
cat /var/log/syslog | less
```

## \* Pipe and less

```
ls /usr/bin | less
```

```
history | less
```

## \* Pipe and Grep

Grep:

→ globally search for regular expression and print out.

→ Searches for a particular pattern of characters and displays all lines that contain that pattern

eg - print the history of commands that contain the sudo

```
history | grep sudo
```

```
history | grep "sudo chmod"
```

```
history | grep sudo | less
```

```
ls /usr/bin | java
```

```
cat Documents/java-app/config.yaml | grep ports
```

## \* Redirects in Linux:

→ > character is the redirect operator.

→ Takes the output from the previous command and sends it to a file that you give

```
history | grep cd > sudo.txt
```

copy the text of one file and put into another new file

```
cat sudo.txt > sudo-rm.txt
```

also add rm commands from history (append)

to sudo-rm.txt

```
history | grep rm >> sudo-rm.txt
```

>> → appends text to end of file

\* wrap up and standard I/O

pipes → |

Redirects → >

→ If we want to execute commands independent from each other on same line.

Semicolon( ; )

clear ; sleep 1 ; echo "Hi how are you?"

It executes one after the another

What we learn

1.) Pipes ( | )

2.) Redirects ( > )

3.) less

4.) grep.