

alias

To set alias of command

Usage :- alias <alias_name>='command name'

Eg:- alias baby='date'

Command :

cp

Usage: cp <path_of_file> <path_of_file>

To copy file

cp -r

Usage :- cp -r <path_of_directory> <path_of_directory>

mv

Usage:- mv <path_of_file/dir> <path_of_file/dir>

Move a file or directory

grep

Usage: grep PATTERNS [FILE]...

Search for PATTERNS in each FILE.

head

Usage: head <filename>

To print top 10 lines of file

tail

Usage: tail <filename>

To print bottom 10 lines of file

I/O redirection



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Standard input , standard output

Standard input (stdin) device is the keyboard ,voice assistant , file



Standard output (stdout) device is the monitor



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Use of redirection

- Output can save from file



- Output can send to mail



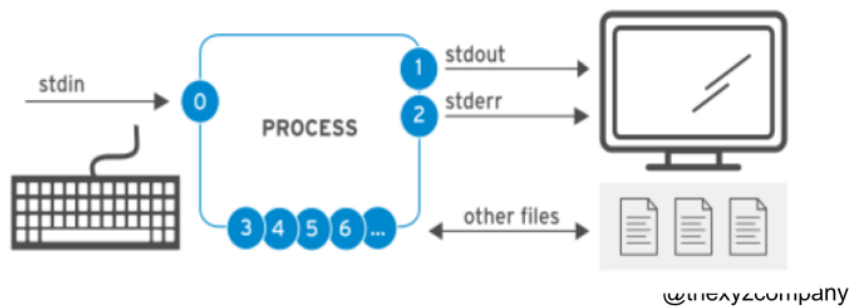
- Output can discard



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Standard input , standard output, standard error

- Standard input (channel 0) reads input from the Keyboard
- Standard output (channel 1) sends normal output to the terminal
- Standard error (channel 2) sends error messages to the terminal



Output redirection Operators

| | |
|--------------|---|
| > file | redirect stdout to overwrite a file |
| >> file | redirect stdout to append to a file |
| 2> file | redirect stderr to overwrite a file |
| 2> /dev/null | discard stderr error messages by redirecting to /dev/null |

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| | |
|--------------------------|---|
| > file 2>&1 &> file | redirect stdout and stderr to overwrite the same file redirect stdout and stderr to append to the same file |
| >> file 2>&1 &>> file | redirect stdout and stderr to append to the same file |

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Example of Output redirection

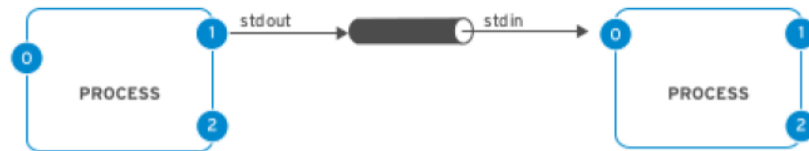
Save a time for later reference

```
[user@host ~]$ date > /tmp/saved-timestamp
```

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Constructing pipelines

- A pipeline is a sequence of one or more commands separated by the pipe character (`|`). A pipe
- connects the standard output of the first command to the standard input of the next command.



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Pipeline with redirection

head will output the first 5 lines of output from ip a , with the final result redirected to a file.

```
[user@host ~]$ ip a | head -n 5 > /tmp/io.txt
```

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Example of pipeline

- The output of the ls command is piped to wc -l, which counts the number of lines received from ls and prints that to the terminal.

```
[user@host ~]$ ls | wc -l
```

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Task

- 1 . redirect history's top 10 lines in /tmp/his.txt
2. redirect history's 2-5 lines in /tmp/adhis.txt