

Part 2: Useful commands

Master your Command Line

(Before it masters you)

Tejas Sanap

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1 Introduction

2 Search

Text

Files

3 Manipulate

Text

Files

4 Shell porn

5 Questions

Introduction



UNIX Philosophy

Focused on *modularity & reusability*.

It can be summarized as:

- Write programs that do one thing and do it well.
- Write programs to work together.
- Write programs to handle text streams, because that is a universal interface.

Basic Operations

All operations performed in the terminal can be categorized as:

- Search for text (in files).
 - `grep`, `cat`
- Search for files (in directories).
 - `find`, `locate`
- Manipulate text (in files).
 - `sed`, `awk`, `cut`
- Manipulate files (in directories).
 - `cp`, `scp`, `rm`, `mv`
 - `gzip`, `tar`
- Manipulate file permission and ownership.

GNU Coreutils

The [GNU Core Utilities](#) are the basic file, shell and text manipulation utilities of the GNU operating system.

They are expected to be present on every operating system.

Previously, the core utilities were implemented by the following packages:

1. `fileutils`
2. `shellutils`
3. `textutils`

In 2003, these three packages were combined into the current `coreutils` package.

Search



Text editors

Do we really need Vim?

Text



cat

cat

grep

grep prints line that matches a certain pattern.

Syntax

```
grep OPTIONS PATTERN INPUT_FILE_NAMES
```

Example

```
$ grep --color=always "anime" torrent-tracker  
udp://tc.animereactor.ru:8082/announce  
udp://tc.animereactor.ru:8082/announce
```

grep

The exit status of **grep** when:

- line is selected is 0.
- no line is selected is 1.
- an error occurs is 2.

Useful **grep** options:

- i** ignore case
- v** invert matches
- c** count no. of matching lines
- color** color the matching content

Files



find

find

locate

locate

Manipulate



File Manager

Do we really need Nautilus, Thunar or Ranger?

Text



sed

sed

awk

awk

cut

cur

Files



scp

- download `znc.pem` from server to add to irssi client

rm, cp & mv

- Text globbing - Use latex compile files and stuff as examples
- Bash Pattern Matching
 - `rm pre*.(tex)`

gzip, tar

Shell porn



fasd

fasd

fortune & cowsay

- Let's add some star trek quotes
- Cowthink and cowsay
- Add some bling with pony

Questions



Questions?

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References

bibliography