My Linux Notes

September 11, 2022

Overleaf

Contents

Chapter 1

Managing Software and Processes

1.1   Looking at Package Concepts

1.2   Using RPM

Redhat Package Manager

1.2.1   RPM Distributions and Conventions

package-name-version-release-architecture.rpm
different distribution may have different package name for the same program
release also called build number

1.2.2   The rpm Command Set

Short	Long	Description
-e	–erase	removes the specified package
-i	–install	install the specified package
-q	–query	queries the specified package is installed
-U	–upgrade	install of upgrades the specified package
-Uvh		installing/upgrading and rpm package file

Querying RMP Packages

use the -q action to perform a simple query on the package management database

	Short	Long	Description
	-c	–configfiles	list the names and the absolute directory references
	-i	–info	provides detailed information, including version, in
for the installed packages	N/A	–provides	show the facilities package providers
	-R	–requires	display various package requirements(dependencies
	-s	–state	provides state of different files in a package, such a
	N/A	–what-provides	show what package a file belongs

1.2.3   Extracting Data from RPMs

1.2.4   Using YUM

1.2.5   Using ZYpp

1.2.6   Using DNF

dnf document

1.3   VIM

1.3.1   Commands

Help	
help command	help for the command
:q	close the help window
.	repeat the last change
Exit Commands	
:w	save the file
:q	exit (if didn't change anything)
:q!	exit without saving
:wq	save and exit(:x ZZ)
:wq file	save ass
Insert Mode	
i	insert mode
o	create a line below
O	create a line above
a	append text after cursor
A	append text at the end of the line
Movement Commands	
h	left
l	right
j	down
k	up

0(hat)	begging of the line
$	end of the line
w	move forward word by word(W use space only)
b	move backward word by word(B use space only)
e	end of word
:n	jump at line number
G :	end of file
ctrl + f	page down
ctrl + b	page up
Deleting Text	
x:	delete under cursor
X:	delete before cursor
dw:	delete word
diw:	delete inner word
D:	clear line
(n)dd:	delete n line
dG:	delete entire line below
Replacing	
r char	replace char with under cursor char
R	Replacing Mode
Copy & Paste	
(n)yy	yank yank(copy) n line
p	paste blow
P	paste above
J	join
Visual Mode	
v	visual mode (all movement commands works here)
y	copy
d	delete and copy(cut)
Searching	
/pattern	search for pattern
/enter(n)	next result
?enter(N)	previous result
/	search top to bottom
?	search bottom to top
Search & Replace	
[range]s/pattern/string/[flags] [count]	replace string with patter[1]
s/pattern/string/g	replace string with all pattern in a line
% s/pattern/string/	replace string with the first pattern whole file
% s/pattern/string/g	replace string with all pattern in whole file
Configurations	
configuration file	∼/.vimrc
”	comment in vimrc
syntax[on/off]	language syntax

---

[1]defaults=1

set [nu/nonu]	line number
set [wrap/nowrap]	breaking the line
set ignorecase	(search and replace by default is case sensitive)

1.4   Links

1.4.1   Hard Links

1.4.2   Soft(Symbolic) links

1.5   TO-DO

TERM