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# Linux使用和开发心得

- 最新版本: `v0.4`
- 更新时间: `20210509`

## 简介

介绍Linux系统的基本概念，以及常用命令，开发相关的一些心得。

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## 鸣谢

感谢我的老婆陈雪的包容理解和悉心照料，才使得我 `crifan` 有更多精力去专注技术专研和整理归纳出这些电子书和技术教程，特此鸣谢。

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# Linux系统概述

TODO:

grep command in Unix/Linux - GeeksforGeeks

<https://www.geeksforgeeks.org/grep-command-in-unixlinux/> The grep filter searches a file for a particular pattern of characters, and displays all lines that contain that pattern. The pattern that is searched in the file is referred to as the regular expression (grep stands for globally search for regular expression and print out).

grep(1) - Linux manual page <https://man7.org/linux/man-pages/man1/grep.1.html>  
grep, egrep, fgrep - print lines that match patterns

sed, a stream editor <https://www.gnu.org/software/sed/manual/sed.html> sed is a stream editor. A stream editor is used to perform basic text transformations on an input stream (a file or input from a pipeline). While in some ways similar to an editor which permits scripted edits (such as ed), sed works by making only one pass over the input(s), and is consequently more efficient. But it is sed's ability to filter text in a pipeline which particularly distinguishes it from other types of editors.

Sed Command in Linux/Unix with examples - GeeksforGeeks

<https://www.geeksforgeeks.org/sed-command-in-linux-unix-with-examples/> SED command in UNIX is stands for stream editor and it can perform lot's of function on file like, searching, find and replace, insertion or deletion. Though most common use of SED command in UNIX is for substitution or for find and replace. By using SED you can edit files even without opening it, which is much quicker way to find and replace something in file, than first opening that file in VI Editor and then changing it.

SED is a powerful text stream editor. Can do insertion, deletion, search and replace(substitution). SED command in unix supports regular expression which allows it perform complex pattern matching.

Viewing text files on Linux - cat, head, tail, more and less · 2buntu

<https://2buntu.com/articles/1491/viewing-text-files-on-linux-cat-head-tail-more-and-less/>

Short version head - View the top few lines of a file - - Displays the first number of lines of a file tail - View the bottom few lines of a file - - Displays the last number of lines of a file -f : continually watch for any additions at the end of the file -f --pid=PID - continually display any additions until process with PID terminates -f -s - continually display any additions at intervals of seconds cat - View the whole file - n : line-numbered output -b : line-numbered output with no line numbers for blank lines -s : multiple blank lines compressed into a single blank line more - View the whole file, one screenful at a time. spacebar : View next screen b : View previous screen d : View next half-screen Enter : View next line = : Current line number in file v : Start vi editor on current line /string : Search for string in file n : Go to next occurrence of string ' : Go to first occurrence of string less - Same as more, but

with many more features. Displays the portion of the file without waiting for the entire file to be read by it. Accepts most of the more commands. Pg Dn : View next screen Pg Up : View previous screen Up arrow : View previous line Down arrow : View next line

Manage Files Effectively using head, tail and cat Commands in Linux

<https://www.tecmint.com/view-contents-of-file-in-linux/>

14 tail and head commands in Linux/Unix - Linux.com

<https://www.linux.com/training-tutorials/14-tail-and-head-commands-linuxunix/>

tail(1) - Linux manual page <https://man7.org/linux/man-pages/man1/tail.1.html> tail  
- output the last part of files

head(1) - Linux manual page <https://man7.org/linux/man-pages/man1/head.1.html>

head - output the first part of files

The head and tail commands in LINUX | Baeldung on Linux

<https://www.baeldung.com/linux/head-tail-commands>

Coreutils - GNU core utilities <https://www.gnu.org/software/coreutils/> Coreutils -

GNU core utilities The GNU Core Utilities are the basic file, shell and text manipulation utilities of the GNU operating system. These are the core utilities which are expected to exist on every operating system.

2 Common options

<https://www.gnu.org/software/coreutils/manual/coreutils.html#toc-Common-options-1>

'--help' Print a usage message listing all available options, then exit successfully.

'--version' Print the version number, then exit successfully.

'--' Delimit the option list. Later arguments, if any, are treated as operands even if they begin with '-'. For example, 'sort -- -r' reads from the file named -r.

'-S suffix' '--suffix=suffix' Append suffix to each backup file made with -b. If this option is not specified, the value of the SIMPLE\_BACKUP\_SUFFIX environment variable is used. And if SIMPLE\_BACKUP\_SUFFIX is not set, the default is '~', just as in Emacs.

GNU Coreutils <https://www.gnu.org/software/coreutils/manual/coreutils.html#toc-Introduction-1>

27.2 Symbolic Modes

<https://www.gnu.org/software/coreutils/manual/coreutils.html#Symbolic-Modes>

Symbolic modes represent changes to files' mode bits as operations on single-character symbols. They allow you to modify either all or selected parts of files' mode bits, optionally based on their previous values, and perhaps on the current umask as well (see Umask and Protection).

The format of symbolic modes is:



[ugoa...][-+=]perms...[...] where perms is either zero or more letters from the set 'rwxXst', or a single letter from the set 'ugo'.

### 27.2.1 Setting Permissions

users operation permissions

u the user who owns the file;

g other users who are in the file's group;

o all other users;

a all users; the same as 'ugo'.

The operation part tells how to change the affected users' access to the file, and is one of the following symbols:

+ to add the permissions to whatever permissions the users already have for the file;

- to remove the permissions from whatever permissions the users already have for the file;

= to make the permissions the only permissions that the users have for the file.

The permissions part tells what kind of access to the file should be changed; it is normally zero or more of the following letters. As with the users part, the order does not matter when more than one letter is given. Omitting the permissions part is useful only with the '=' operation, where it gives the specified users no access at all to the file.

r the permission the users have to read the file;

w the permission the users have to write to the file;

x the permission the users have to execute the file, or search it if it is a directory.

For example, to give everyone permission to read and write a regular file, but not to execute it, use:

a=rw To remove write permission for all users other than the file's owner, use:

go-w The above command does not affect the access that the owner of the file has to it, nor does it affect whether other users can read or execute the file.

To give everyone except a file's owner no permission to do anything with that file, use the mode below. Other users could still remove the file, if they have write permission on the directory it is in.

go= Another way to specify the same thing is:

og-rwx

The head and tail commands in LINUX | Baeldung on Linux

<https://www.baeldung.com/linux/head-tail-commands>

.bashrc

Coreutils - GNU core utilities <https://www.gnu.org/software/coreutils/> GNU  
coreutils - Core GNU utilities - GNU Project - Free Software Foundation  
<https://www.gnu.org/software/coreutils/manual/> -> 所有的GNU的core util命令:  
<https://www.gnu.org/software/coreutils/manual/coreutils.html#toc-Introduction-1>

```
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```

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```

TODO: 整理出 常用的命令， 不常用的， 就暂时不整理了。

cron - Wikipedia <https://en.wikipedia.org/wiki/Cron>

Cron - 维基百科，自由的百科全书 <https://zh.wikipedia.org/wiki/Cron>

Linux Shell Commands <https://docs.cs.cf.ac.uk/notes/linux-shell-commands/>

rsync - Wikipedia <https://en.wikipedia.org/wiki/Rsync>

Use Similar to cp, rcp and scp, rsync requires the specification of a source and of a destination, of which at least one must be local.[19]

Generic syntax:

```
rsync [OPTION] ... SRC ... [USER@]HOST:DEST rsync [OPTION] ...
[USER@]HOST:SRC [DEST]
```

rsync(1) - Linux man page <https://linux.die.net/man/1/rsync> rsync -- a fast, versatile, remote (and local) file-copying tool

.bashrc

Rsync (Remote Sync): 20 Helpful Examples in Linux

<https://phoenixnap.com/kb/rsync-command-linux-examples>

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## 典型使用场景

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## .bashrc

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## .zshrc

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## Linux常用命令

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# Linux命令概览

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## 系统信息

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## uname

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## arch

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## date

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# 用户

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## who

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## whoami

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## users

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## man

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## info

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# ls

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## tree

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## cp

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## touch

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## mv

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## rm

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## find

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## chown

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## chmod

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## chgrp

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## pwd

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## cd

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## mkdir

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## rmmdir

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## WC

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## file

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## install

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## 打包和压缩

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## tar

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## zip

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## unzip

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## bzip2

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## bunzip2

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## gzip

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# gunzip

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## 进程

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## ps

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## top

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## kill

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## killall

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## 空间

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## du

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## df

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## 网络

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## 状态

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## netstat

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## curl

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## scp

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## rcp

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## rsync

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## ssh

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## ftp

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## tftp

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## sftp

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## telnet

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## make

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## gcc

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## ar

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## ranlib

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## strip

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## nm

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## 工具类

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## test

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# Linux通用逻辑

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## 命令

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## 参数

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## --help

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## --version

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## --xxx和-X

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## 常见命令组合

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## ps+grep

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## chown+chmod

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# Linux开发心得

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## Shell

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## cron

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## 立即生效

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## 包管理器

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## 基础开发工具

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## 数据恢复

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## 模拟Linux系统

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## 附录

下面列出相关参考资料。

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## 参考资料

- [linux ar命令\\_繁城落叶-CSDN博客](#)
- [linux的ar命令： 目标文件\(.o\)<==> 静态库\(.a\)\\_认知 行动 坚持-CSDN博客](#)
- [ar\(1\) - Linux man page](#)
- [ar command in Linux with examples - GeeksforGeeks](#)
- [Linux命令大全: cat命令 – 在终端设备上显示文件内容\\_谭青海-CSDN博客](#)
- [Linux中的13个基本Cat命令示例 - 知乎](#)
- [ar、ranlib、nm命令详解 - 简书](#)
- [Sed Command in Linux/Unix with examples - GeeksforGeeks](#)
- [sed命令详解 - 简书](#)
- [Linux sed 命令 | 菜鸟教程](#)
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