

Linux

Introduction to File Handling Commands in Linux

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Introduction to File Handling Commands in Linux

In this presentation, we'll explore the fundamental commands for file handling in Linux. Understanding these commands is essential for efficient navigation of Linux systems and can make your work more productive.



cat

The `cat` command displays the contents of one or more files and can also concatenate files to create new ones. It's a versatile command that can simplify the file handling process.

SYNTAX: cat filename

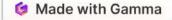
```
vnr@vnrvjiet01:~$ cat > vnr
hello freshers
welcome to vnrvjiet
vnr@vnrvjiet01:~$ cat vnr
hello freshers
welcome to vnrvjiet
```

```
npc:~
Lon@zifanpc:~$ ls -a
.bashrc
examples.desktop .ICEauthority
.dmrc
.isomaster .mtab.fuse
ash_history
ash_logout
Lon@zifanpc:~$ gnome-screenshot
```

ls

The `ls` command lists the files and directories in the current directory. With its various flags, you can tailor the output to your specific needs.

SYNTAX: Is



```
vnr@vnrvjiet01:~$ ls -l
total 8
-rw-r--r-- 1 vnr vnr 33 Sep 15 05:20 aids
-rw-r--r-- 1 vnr vnr 35 Sep 15 05:24 vnr
```



mkdir

Use the `mkdir` command to create new directories. Save time when working on complex projects or organizing your files by using logical and consistent naming conventions

SYNTAX: mkdir -r directory

```
vnr@vnrvjiet01:~$ mkdir aas
vnr@vnrvjiet01:~$ ls
aas aids vnr
```

rm

The `rm` command is used to delete files and directories. Use it with caution and double-check the pathname to avoid any critical data loss. For deleting directories, the `-r` flag is required to prevent accidental deletion.

SYNTAX: rm filename

```
vnr@vnrvjiet01:~$ rm vnr
vnr@vnrvjiet01:~$ rm -r aas
vnr@vnrvjiet01:~$ ls
aids
```

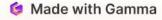
```
example anastasialanz$ ls
index.html
example anastasialanz$ cp hello.txt hello-copy.tx
example anastasialanz$ ls
hello.txt index.html
example anastasialanz$
```

2. bash

cp

Use the `cp` command to copy files or directories from one location to another. This is useful when you want to create a backup or create a duplicate copy of a file for testing or experimentation.

SYNTAX: cp source_file destination_file

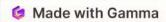


```
vnr@vnrvjiet01:~$ cp aids vnr
vnr@vnrvjiet01:~$ ls
aids vnr
```



Use the `mv` command to move or rename files and directories. This can be useful when you want to reorganize your files, change the name of a file, or move it to a different location.

SYNTAX: mv original_name new_name



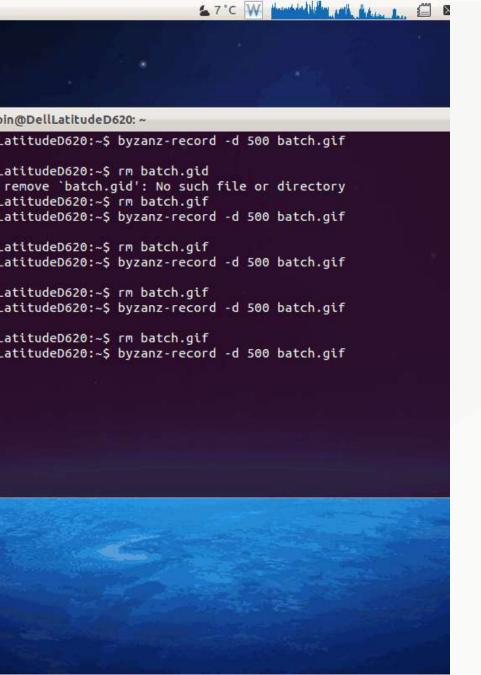
```
vnr@vnrvjiet01:~$ mv vnr vjiet
vnr@vnrvjiet01:~$ ls
aids vjiet
```

stat

The `stat` command provides detailed information about a file, including timestamps, permissions, and more. This can be useful when troubleshooting a problem with a file or checking the status of a file.

SYNTAX: stat filename

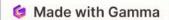
```
fa.wikipedia.org
 (208.80.152.2) 56(84) bytes of data.
ping statistics ---
eived, 0% packet loss, time 0ms
28/540.528/540.528/0.000 ms
 Jul 30 22:43 .
 Sep 14 20:42 ...
 May 14 00:15 account
 Jul 31 22:26 cache
 May 18 16:03 db
 May 18 16:03 empty
 May 18 16:03 games
 Jun 2 18:39 gdm
 May 18 16:03 lib
 May 18 16:03 local
 May 14 00:12 lock -> ../run/lock
 Sep 14 20:42 log
 Jul 30 22:43 mail -> spool/mail
 May 18 16:03 nis
 May 18 16:03 opt
 May 18 16:03 preserve
 Jul 1 22:11 report
 May 14 00:12 run -> ../run
 May 18 16:03 spool
 Sep 12 23:50 time
 May 18 16:03 yp
rch wiki
resto, refresh-packagekit, remove-with-leaves
                                  Made with Gamma
```



file

The `file` command determines the type of a file, such as text, binary, or specific file formats. Knowing the file type can be useful when you need to work with a particular type of file or troubleshoot issues with file compatibility.

SYNTAX: file filename



vnr@vnrvjiet01:~\$ file aids
aids: ASCII text

diff

The `diff` command is used to compare the contents of two files and display the differences. This is useful when you want to check for changes or modifications between files.

SYNTAX: diff filename1 filename2



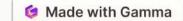
```
vnr@vnrvjiet01:~$ diff aids num
1,2c1,13
< hey welcome
< to linux programming
> 3
> 3
> 6
```

```
tail -
CN:16 SD:9 DL:3.9MiB ETA:26m17s
CN:16 SD:9 DL:3.8MiB ETA:26m59s
CN:16 SD:9 DL:3.8MiB ETA:26m46s
CN:19 SD:9 DL:3.9MiB ETA:25m47s
CN:17 SD:9 DL:3.9MiB ETA:25m52s
CN:17 SD:9 DL:3.8MiB ETA:26m48s
CN:17 SD:9 DL:3.8MiB ETA:26m49s
CN:17 SD:9 DL:3.7MiB ETA:27m8s]
CN:17 SD:9 DL:3.7MiB ETA:27m40s
CN:19 SD:9 DL:3.5MiB ETA:29m7s
CN:19 SD:9 DL:3.6MiB ETA:28m3s]
CN:19 SD:9 DL:3.7MiB ETA:26m59s1
CN:19 SD:9 DL:3.9MiB ETA:25m55s
CN:19 SD:9 DL:4.1MiB ETA:24m21s]
CN:19 SD:9 DL:4.4MiB ETA:23m3s]
CN:19 SD:9 DL:4.6MiB ETA:21m59s]
CN:16 SD:9 DL:5.2MiB ETA:19m30s
CN:16 SD:9 DL:5.2MiB ETA:19m22s
CN:13 SD:9 DL:3.8MiB ETA:25m55s
CN:11 SD:9 DL:3.6MiB ETA:27m41s
CN:11 SD:9 DL:3.4MiB ETA:29m13s]
CN:11 SD:9 DL:3.3MiB ETA:30m6s]
CN:11 SD:9 DL:3.2MiB ETA:31m10s
CN:11 SD:9 DL:3.1MiB ETA:31m58s
CN:11 SD:9 DL:3.0MiB ETA:33m1s]
CN:11 SD:9 DL:2.7MiB ETA:36m38s
CN:16 SD:9 DL:2.4MiB ETA:41m47s
CN:16 SD:9 DL:2.2MiB ETA:43m48s]
CN:16 SD:9 DL:2.1MiB ETA:45m41s]
AW Technical Suite 2019 (21.3.0.755)/CONTENT/CorelDRAWTechnicalSuite2019Extras-Fills.zip (11more)
```

head and tail

The `head` and `tail` commands are used to view the beginning or end of a file, respectively. Use them when you want to quickly view the contents of a file without opening it or when you need to check the end or beginning of a file for specific information.

SYNTAX: head filename/tail filename





head and tail

The `head` and `tail` commands are used to view the beginning or end of a file, respectively. Use them when you want to quickly view the contents of a file without opening it or when you need to check the end or beginning of a file for specific information.

SYNTAX: head filename/tail filename

```
vnr@vnrvjiet01:~$ head num
vnr@vnrvjiet01:~$ tail num
```

Conclusion

The file handling commands discussed in this presentation are essential for working efficiently with Linux systems. Learning these commands can save time, reduce the risk of data loss, and improve your productivity.

Questions and Discussion

It's time to open the floor for questions and discussions regarding file handling commands in Linux. Don't hesitate to ask questions or offer your own insights into these commands.

Thank You

Thank you for attending this presentation on essential Linux commands for file handling. Happy Linuxing!