

```
CPU0 states: 0.0% user, 0.0% nice, 0.0% system, 0.0% interrupt, 100% idle  
CPU1 states: 0.0% user, 0.0% nice, 0.0% system, 0.0% interrupt, 100% idle  
Memory: Real: 68M/324M act/tot Free: 1660M Swap: 0K/2055M used/tot
```

PID	USERNAME	PRI	NICE	SIZE	RES	STATE	WAIT	TIME	CPU	COMMAND
26309	nicholas	2	0	1776K	4708K	sleep/1	poll	0:06	0.00%	mpd
16366	nicholas	2	0	1520K	4556K	sleep/1	poll	1:34	0.00%	mpd
23280	nicholas	2	0	4172K	2944K	sleep/0	poll	0:00	0.00%	mpd
2790	nicholas	2	0	3360K	1852K	sleep/1	poll	0:00	0.00%	scmpc
12060	root	2	0	456K	796K	sleep/0	kqread	0:00	0.00%	apmd
7401	www	2	0	1540K	2548K	sleep/1	select	0:00	0.00%	httpd
10926	root	2	0	1124K	2104K	sleep/1	select	0:00	0.00%	sendmail
8064	root	2	1	1844K	1168K	sleep/1	poll	0:01	0.00%	logfmon
15182	nicholas	2	0	3384K	2260K	sleep/0	select	0:02	0.00%	sshd
1688	root	2	0	148K	144K	idle	nfsd	0:02	0.00%	nfsd
26598	root	2	0	148K	114K	idle	nfld	0:00	0.00%	nfld
76	nicholas	2	0	108K	2114K	sleep/0	poll	0:00	0.00%	dmav
20891	root	2	0	612K	952K	idle	select	0:00	0.00%	cron
10340	nicholas	3	0	692K	620K	idle	ttyin	0:00	0.00%	ksh
13971	_syslogd	2	0	62K	240K	sleep/0	poll	0:00	0.00%	syslogd
19861	nicholas	2	0	97K	2104K	sleep/1	poll	0:00	0.00%	ncmpc
27153	nicholas	2	0	1500K	11H	sleep/0	select	0:00	0.00%	emacs

Introduction to Directories in Linux

```
-client_msg_fn_detach(struct hdr *hdr, struct client_ctx *cctx)  
+client_msg_fn_detach(struct imsg *imsg, struct client_ctx *cctx)  
{  
-    if (hdr->size != 0)  
+    if (imsg->hdr.len != IMSG_HEADER_SIZE)  
        fatalx("bad MSG_DETACH size");
```

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```
00 -96,9 +107,9 @@  
  
int  
client_msg_fn_shutdown(  
-    struct hdr *hdr, struct client_ctx *cctx)  
+    struct imsg *imsg, struct client_ctx *cctx)  
{  
-    if (hdr->size != 0)  
+    if (imsg->hdr.len != IMSG_HEADER_SIZE)  
        fatalx("bad MSG_SHUTDOWN size");  
  
    client_write_server(cctx, MSG_EXITING, NULL, 0);  
00 -108,9 +119,9 @@  
-----F1 tmux-imsg-12diff.diff 17% (184,0) Hq-B (Diff)-----
```

```
nicholas@yelena 0 1 ~$
```

Creating Directories

Structure
Specify the name and location for the new directory.

1

Command

Use the `mkdir` command to create directories.

2

Options

Explore options like creating nested directories or setting permissions.

3



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Removing Directories

Command

Use the `rmdir` command to remove empty directories.

Caution

Double-check before deleting directories as it is irreversible.

Options

Learn about additional options like removing directories alongside their content.

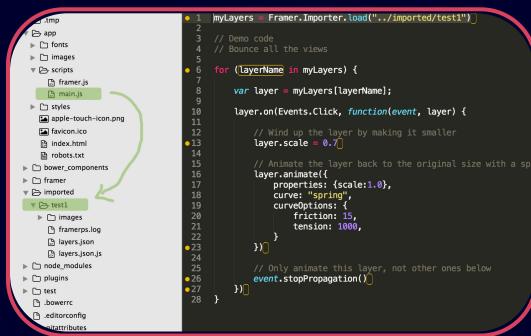


Changing Directories



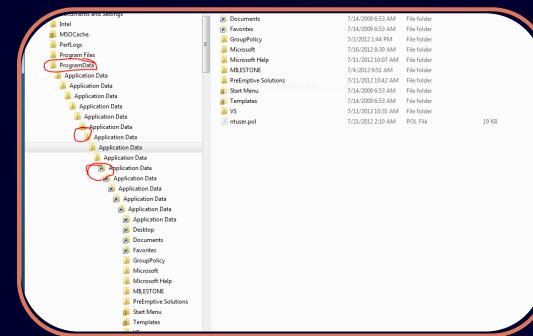
Command

Use the `cd` command to navigate between directories.



Relative Path

Specify the destination based on the current directory.



Absolute Path

Directly reference the exact location of the desired directory.

Permissions and Ownership

Modify the ownership of a directory
using the **chown** command.

chown

1

chmod

Change the permissions of a directory
using the **chmod** command.

2

chgrp

Change the group ownership of a
directory using the **chgrp** command.

3

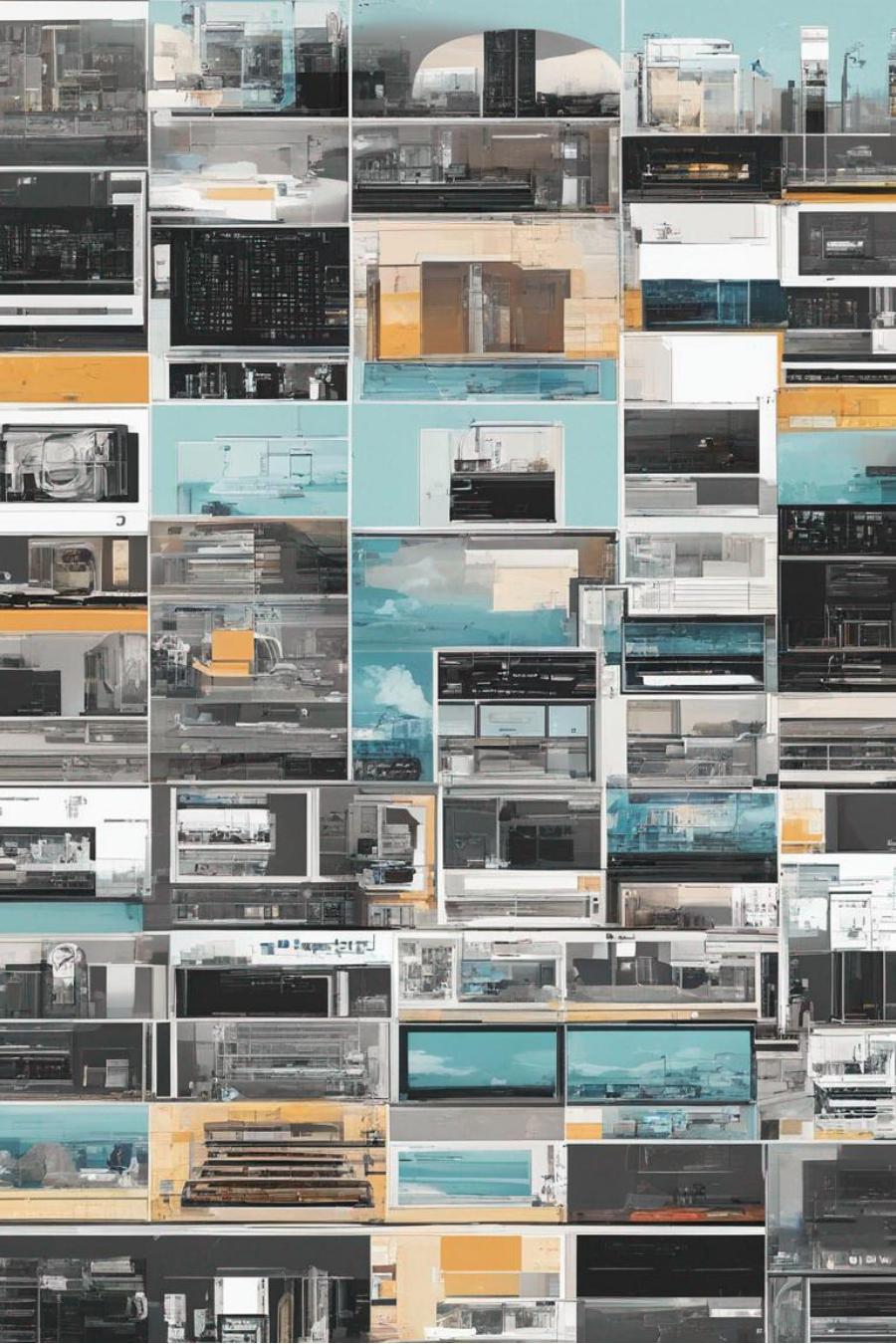


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Working with Hidden Directories

Hidden directories in Linux are denoted by a dot at the start of their name. Learn how to interact with these directories using the command-line interface.



List Directories

① ls

Use `ls` to list directories in the current location.

② Options

Explore options like displaying file sizes and timestamps.

③ Recursive Listing

List directories and their subdirectories using the `-R` flag.

Directory Navigation Shortcuts

`cd ~`

Quickly navigate to your home directory.

`cd -`

Return to the previous directory.

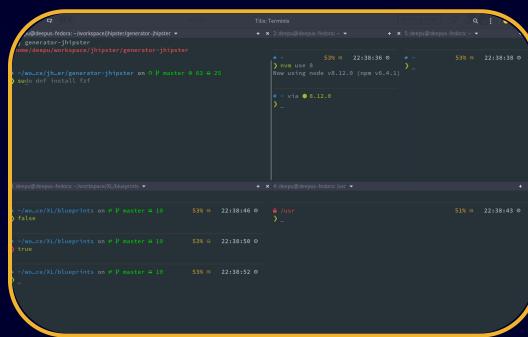
`cd ..`

Move up one level in the directory structure.



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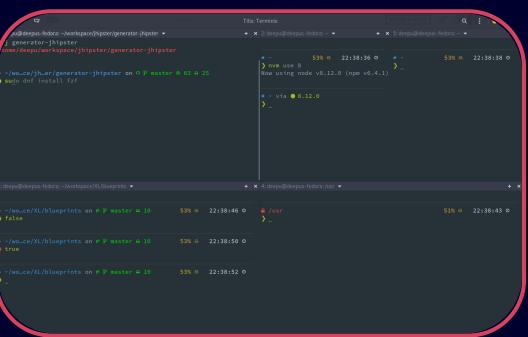
Managing Large Directories



```
tar -czf /tmp/test.tar /tmp/blueprints
```

tar

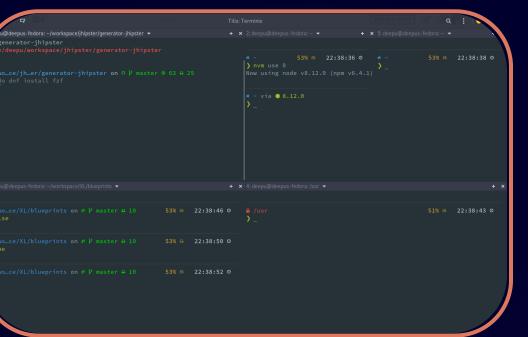
Compress directories and their contents into a single file using the **tar** command.



```
tar -xvf /tmp/test.tar
```

untar

Extract the contents of a tar file using the **tar** command.



```
du -sh /tmp/blueprints
```

du

Check the disk usage of a directory using the **du** command.

