

```
chaudry-aw:/srv/www # tar xzvf htdocs.tar.gz
htdocs/
htdocs/index.html
chaudry-aw:/srv/www # ls htdocs
index.html
```

```
chaudry-aw:/srv/www # tar czv -g /tmp/snapshot_file -f /tmp/htdocs_full.tar.gz htdocs
htdocs/
htdocs/index.html
```

```
chaudry-aw:/srv/www # tar czv -g /tmp/snapshot_file -f /tmp/htdocs_incremental.tar.gz htdocs
htdocs/
htdocs/incremental.html
```

```
chaudry-aw:/srv/www # tar -tzf /tmp/htdocs_incremental.tar.gz
htdocs/
htdocs/incremental.html
chaudry-aw:/srv/www #
```

```
chaudry-aw:/srv/www # tar xzvf /tmp/htdocs_full.tar.gz
htdocs/
htdocs/index.html
chaudry-aw:/srv/www # tar xzvf /tmp/htdocs_incremental.tar.gz
htdocs/
htdocs/incremental.html
chaudry-aw:/srv/www # ls htdocs
incremental.html index.html
chaudry-aw:/srv/www #
```

```
chaudry-aw:~ # dd if=/dev/cdrom of=/tmp/course_cd.iso
12884+0 records in
12884+0 records out
6596608 bytes (6.6 MB, 6.3 MiB) copied, 0.12058 s, 54.7 MB/s
chaudry-aw:~ #
```

```
chaudry-aw:~ # mount -o loop /tmp/course_cd.iso /media/mntcd/
mount: /media/mntcd: WARNING: source write-protected, mounted read-only.
chaudry-aw:~ #
```

```
chaudry-aw:/media/mntcd # ls /media/mntcd
3038_all_manual.pdf
chaudry-aw:/media/mntcd #
```

```
chaudry-aw:/media/mntcd # ls /home/chaudry-aw/
.Xauthority      .fonts           .mozilla         .xinitrc.template  Music           backups          myfile
.bash_history    .fonts.conf      .profile         3038_all_manual.pdf Pictures        bin              script_name.sh
.bashrc          .gtkrc-2.0       .serverauth.1822 AppArmor          Public          chmod            scripts
.cache           .i18n            .ssh             Desktop          Templates      loginname_file  some_directory
.config          .inputrc         .viminfo         Documents        Videos        menu_script.sh  vhost-ssl.template
.emacs           .local           .xim.template    Downloads        backup.tar.gz  my_file         vhost.template
chaudry-aw:/media/mntcd #
```

```
chaudry-aw:~ # rsync -av /home/geeko /tmp/rsync_test
sending incremental file list
geeko/
geeko/.xauth580GWM
geeko/new_file

sent 38,241 bytes  received 254 bytes  76,990.00 bytes/sec
total size is 36,720,626  speedup is 953.91
chaudry-aw:~ #
```

```
chaudry-aw:~ # ll /tmp/rsync_test
total 8
drwxr-xr-x 20 chaudry-aw users 4096 Nov 17 21:00 chaudry-aw
drwxr-xr-x 15 geeko      users 4096 Nov 17 21:18 geeko
chaudry-aw:~ #
```

```
chaudry-aw:/usr/local/bin # cat /usr/local/bin/home_backup.sh
#!/bin/bash
rsync -av /home/geeko /tmp/rsync_test
chaudry-aw:/usr/local/bin #
```

```
chaudry-aw:/usr/local/bin # crontab -l
35 23 * * * /usr/local/bin/home_backup.sh
chaudry-aw:/usr/local/bin #
```

```
chaudry-aw:/usr/local/bin # ls /tmp/rsync_test
geeko
You have mail in /var/spool/mail/root
chaudry-aw:/usr/local/bin #
```

```
chaudry-aw:~ # cat /etc/grub.d/15_linux_console
#!/bin/sh -e
cat << EOF
menuentry "OpenSUSE Boot to Console" {
    load_video
    set gfxpayload=keep
    insmod gzio
    insmod part_gpt
    insmod ext2
    set root='hd0,gpt4'
    linux /boot/vmlinuz-6.4.0-150600.23.22-default root=UUID=d2d2ab0e-826a-4e45-92ba-a2866ead15ba splash=silent preempr=full mitigations=auto quiet security=apparmor show
    initrd /boot/initrd-6.4.0-150600.23.22-default
}
EOF
chaudry-aw:~ #
```

```
chaudry-aw:~ # grub2-mkconfig -o /boot/grub2/grub.cfg
Generating grub configuration file ...
Found theme: /boot/grub2/themes/openSUSE/theme.txt
Found linux image: /boot/vmlinuz-6.4.0-150600.23.22-default
Found initrd image: /boot/initrd-6.4.0-150600.23.22-default
Warning: os-prober will be executed to detect other bootable partitions.
Its output will be used to detect bootable binaries on them and create new boot entries.
1741.353091 | DM multipath kernel driver not loaded
Adding boot menu entry for UEFI Firmware Settings ...
done
chaudry-aw:~ #
```