

Welcome to Fedora Discussion!



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Fine.

Jeff V compute... You can call me "Wikipedia Brown..." 1    Major Tom Apr 2024



Major Tom:



```
chroot /nt/root
```

```
mount -a
```

```
dnf reinstall grub2-efi grub2-efi-modules shim
```

I assume the chroot command was a typo?

What is the output of `mount` while in the chroot environment? Does it show `/dev` properly mounted? Does it show all the required devices mounted?

/

/boot

/boot/efi

/home

/dev

/sys

/proc

/run

If you exit from the chroot environment all those should show an entry at `/mnt/root/...`

There also may be a discrepancy depending upon which live iso you are using to boot (kernel related). The release version of the iso had kernel 6.5.6. Your installed system likely has kernel 6.8.X (or maybe 6.7.X). Grub has been updated as well.

Booting from the live iso obtained from [Index of /pub/alt/live-respins](#) ⁹ would give you an iso with (almost) current software and kernel which probably would assist with that



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Fine.



George N. White III gnwiii

Major Tom Apr 2024



Major Tom:



Fedora Partition = nvme0n1p7

[...]

```
mount /dev/nvme0n1p7 /mnt/
```

Using Fedora 39 Workstation defaults, you get btrfs subvolumes for root and home. Here:

```
% df -lh
Filesystem      Size  Used Avail Use% Mounted on
/dev/nvme0n1p7  405G   93G  308G  24% /
devtmpfs         4.0M    0  4.0M   0% /dev
tmpfs            7.8G    0  7.8G   0% /dev/shm
efivarfs        256K  104K  148K  42% /sys/firmware/efi/efivars
tmpfs            3.1G  2.1M   3.1G   1% /run
tmpfs            7.8G   16K   7.8G   1% /tmp
/dev/nvme0n1p7  405G   93G  308G  24% /home
/dev/nvme0n1p6  974M  308M  599M  34% /boot
/dev/nvme0n1p1  646M  100M  547M  16% /boot/efi
tmpfs            1.6G  156K   1.6G   1% /run/user/1000
```

Note that `root` and `home` are both on `/dev/nvme0n1p7`, but need to be mounted using `-O subvol=<name>...` as shown above in [@computersavvy](#)'s post. Note that there is no need to mount the home subvolume.



Repair/Reinstall GRUB after Windows...

Log In



Ask Fedora #f39 #grub #dual-boot #windows



Major Tom majortom-de

1 Apr 2024

Guys - you made my day. Thank you so much.

Together with your input and this Gist I found, I was able to restore GRUB 😊

gist.github.com

[https://gist.github.com/Tamal/73e65bfb0e883e438310c5fe81c5de14](https://gist.github.com/Tamal/73e65bfb0e883e438310c5fe81c5de14?permalink_comment_id=4553369)
?permalink_comment_id=4553369 14k

```
$ # Use Live CD to boot
$ sudo su # Switch to root
$ fdisk -l # Get names of root, boot & EFI partition names. you can also use
$ mount /dev/mapper/fedora_localhost--live-root /mnt # mount root partition
$ cat /mnt/etc/fedora-release
Fedora release 31 (Thirty One)
$ mount /dev/nvme0n1p2 /mnt/boot # mount boot partition
$ mount /dev/nvme0n1p1 /mnt/boot/efi # mount EFI partition
# Note: If you are not able to mount EFI partition ('Input/Output error'),
# You may have to repair ESP file system or format ESP.
```

This file has been truncated. [show original](#)

su

```
mount -o subvol=root /dev/nvme0n1p7 /mnt/
mount /dev/nvme0n1p6 /mnt/boot
mount /dev/nvme0n1p1 /mnt/boot/efi

mount -o bind /dev /mnt/dev
mount -o bind /sys /mnt/sys
mount -o bind /proc /mnt/proc
mount -o bind /run /mnt/run
mount -o bind /sys/firmware/efi/efivars /mnt/sys/firmware/efi/efivars

chroot /mnt

mount -a

dnf reinstall shim-* grub2-*

grub2-mkconfig -o /boot/grub2/grub.cfg

efibootmgr -c -d /dev/nvme0n1p1 -p 1 -L Fedora -l '\EFI\fedora\shimx64.efi.efi'
```

After this I was able to boot Fedora via UEFI Boot Menu. Then I executed this and after restart, GRUB is shown again:

```
dnf reinstall shim-* grub2-*

grub2-mkconfig -o /boot/grub2/grub.cfg
```

Crazy challenge but again learned a lot about Linux 😊

3 Replies ▾    7

✓ Solution





Jeff V computers... You can call me "Wikipedia Brown" (Ask... Major Tom Apr 2024

Fedora is a long time learning experience, even for those of us with more than 20 years experience. 🧐



3 months later



manohar daga gdaga Major Tom Jul 2024

just open Microsoft_window boot efi and select Fadora as first boot option in Boot configuration... this can be done by presing power button+volume down in surface laptop, your may be different ,just try this.



2 months later



Francisco H bearpeacefulpie 4 Jeff V Sep 2024

I Followed these steps, i had issues trying to dual boot two fedora installs but i'm posting this here because this post is one of the top search results on Google:

Delete the EFI partition. Fedora was the only OS in my drive anyways and I had messed with the EFI partition. I then recreated the EFI partition by doing an Ubuntu install.

Boot into a fedora live session using a USB stick. Open the terminal.

Then I followed the steps in your comment:

1. `su`
2. `mount -t btrfs -o subvol=root,compress=zstd:1 UUID=<uuid of btrfs partition> /mnt`
3. `for fs in $(ls /mnt); do mount -o bind /$fs /mnt/$fs ; done`
4. `chroot /mnt`



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Fine.

6. I had an error in the fstab in my fedora install with the wrong UUID for the EFI partition so I edited the UUID in the fstab in my fedora install manually. I got the UUID from the gnome Disks app in the fedora live session, selecting my disk and then selecting the EFI partition

7. `mount -a` again

Then I followed the steps here:

Fedora Docs

[f40] Working with the GRUB 2 Boot Loader 178

Learn more about Fedora Linux, the Fedora Project & the Fedora Community.

I have an EFI system.



3 months later



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Fine.

13 days later

24 days later

5 months later

