

1. What is the significance of locking a user account? Demonstrate locking and unlocking of a user account from the terminal.

```
[root@archlinux tetroner]# passwd -l om
passwd: password changed.
[root@archlinux tetroner]# passwd -S om
om L 2024-02-29 7 50 0 -1
[root@archlinux tetroner]# cat /etc/shadow | grep om
systemd-oom:!*:19634::::::
om: !$y$j9T$/HpoiECnxB66R40dwMKzS0$u40xzmhYWpW1dQJiq1cpfxWwTUQwK
Gq7eiDAu26Z0N0:19782:7:50:0:::
[root@archlinux tetroner]# exit
exit

~ 🕒 1:42:56
$ su om
Password:
su: Authentication failure

~ 🕒 1:43:06
$ su
Password:
[root@archlinux tetroner]# passwd -u om
passwd: password changed.
[root@archlinux tetroner]# exit
exit
```

2. Allot full root privileges to user and then modify to provide only selected root privileges.(use visudo)

```
GNU nano 7.2 /etc/sudoers.tmp
## User privilege specification
##
root ALL=(ALL:ALL) ALL

## Uncomment to allow members of group wheel to execute any command
# %wheel ALL=(ALL:ALL) ALL

## Same thing without a password
# %wheel ALL=(ALL:ALL) NOPASSWD: ALL

## Uncomment to allow members of group sudo to execute any command
# %sudo ALL=(ALL:ALL) ALL

## Uncomment to allow any user to run sudo if they know the password
## of the user they are running the command as (root by default).
# Defaults targetpw # Ask for the password of the target user
# ALL ALL=(ALL:ALL) ALL # WARNING: only use this together with 'Defaults targetpw'

## Read drop-in files from /etc/sudoers.d
@includedir /etc/sudoers.d
```

3. Execute fdisk command with different options and interpret the outputs.

```
[root@archlinux tetroner]# fdisk -l
Disk /dev/nvme1n1: 476.94 GiB, 512110190592 bytes, 1000215216 sectors
Disk model: KINGSTON OM8PCP3512F-AI1
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: 253B8173-D3AF-4CE2-AC0A-0C369040A929
```

Device	Start	End	Sectors	Size
/dev/nvme1n1p1	2048	1050623	1048576	512M
/dev/nvme1n1p2	1050624	1000214527	999163904	476.4G

```
Disk /dev/nvme0n1: 931.51 GiB, 1000204886016 bytes, 1953525168 sectors
Disk model: Samsung SSD 980 1TB
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 16384 bytes / 131072 bytes
Disklabel type: gpt
Disk identifier: AAAEA02C-C47A-456E-A152-BE6CBD88DBCE
```

```
[root@archlinux tetroner]# fdisk -l /dev/nvme1n1p1
Disk /dev/nvme1n1p1: 512 MiB, 536870912 bytes, 1048576 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x00000000
```

```
[root@archlinux tetroner]# fdisk /dev/nvme1n1p1
```

Welcome to fdisk (util-linux 2.39.3).  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.

This disk is currently in use - repartitioning is probably a bad idea.  
It's recommended to umount all file systems, and swapoff all swap  
partitions on this disk.

The device contains 'vfat' signature and it will be removed by a write command. See fdisk(8) man page and --wipe option for more details.

Command (m for help): m

Help:

**DOS (MBR)**

- a toggle a bootable flag
- b edit nested BSD disklabel
- c toggle the dos compatibility flag

4. Execute df command with different options and interpret the outputs.

```
[root@archlinux tetroner]# df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
dev	8074092	0	8074092	0%	/dev
run	8085996	1996	8084000	1%	/run
efivarfs	192	61	127	33%	/sys/firmware/efi/efivars
/dev/nvme1n1p2	490617784	189257668	276364636	41%	/
tmpfs	8085996	71020	8014976	1%	/dev/shm
tmpfs	8085996	13092	8072904	1%	/tmp
/dev/nvme1n1p1	523248	111108	412140	22%	/boot
tmpfs	1617196	65660	1551536	5%	/run/user/1000
/dev/nvme0n1p3	313701368	199324892	114376476	64%	/run/media/tetroner/Windows
/dev/nvme0n1p1	347599556	156977516	190622040	46%	/run/media/tetroner/Data
/dev/nvme0n1p5	314572792	219603152	94969640	70%	/run/media/tetroner/Backup

```
[root@archlinux tetroner]# df -m
```

Filesystem	1M-blocks	Used	Available	Use%	Mounted on
dev	7885	0	7885	0%	/dev
run	7897	2	7895	1%	/run
efivarfs	1	1	1	33%	/sys/firmware/efi/efivars
/dev/nvme1n1p2	479119	184823	269888	41%	/
tmpfs	7897	70	7828	1%	/dev/shm
tmpfs	7897	13	7884	1%	/tmp
/dev/nvme1n1p1	511	109	403	22%	/boot
tmpfs	1580	65	1516	5%	/run/user/1000
/dev/nvme0n1p3	306349	194654	111696	64%	/run/media/tetroner/Windows
/dev/nvme0n1p1	339453	153299	186155	46%	/run/media/tetroner/Data
/dev/nvme0n1p5	307200	214457	92744	70%	/run/media/tetroner/Backup

```
[root@archlinux tetroner]# df -k
Filesystem      1K-blocks      Used Available Use% Mounted on
dev              8074092          0    8074092   0% /dev
run             8085996        1992    8084004   1% /run
efivarfs         192           61       127   33% /sys/firmware/efi/efivars
/dev/nvme1n1p2  490617784 189257936 276364368  41% /
tmpfs            8085996       71020    8014976   1% /dev/shm
tmpfs            8085996       13092    8072904   1% /tmp
/dev/nvme1n1p1   523248       111108    412140   22% /boot
tmpfs            1617196       65744    1551452   5% /run/user/1000
/dev/nvme0n1p3  313701368 199324892 114376476  64% /run/media/tetroner/Windows
/dev/nvme0n1p1  347599556 156977516 190622040  46% /run/media/tetroner/Data
/dev/nvme0n1p5  314572792 219603152  94969640  70% /run/media/tetroner/Backup
[root@archlinux tetroner]# df -h
Filesystem      Size  Used Avail Use% Mounted on
dev             7.8G   0  7.8G   0% /dev
run             7.8G  2.0M  7.8G   1% /run
efivarfs        192K   61K  127K  33% /sys/firmware/efi/efivars
/dev/nvme1n1p2  468G  181G  264G  41% /
tmpfs           7.8G   70M  7.7G   1% /dev/shm
tmpfs           7.8G   13M  7.7G   1% /tmp
/dev/nvme1n1p1  511M  109M  403M  22% /boot
tmpfs           1.6G   65M  1.5G   5% /run/user/1000
```

```
[root@archlinux tetroner]# df -T
Filesystem      Type      1K-blocks      Used Available Use% Mounted on
dev             devtmpfs  8074092          0    8074092   0% /dev
run             tmpfs     8085996        1992    8084004   1% /run
efivarfs        efivarfs   192           61       127   33% /sys/firmware/efi/efivars
/dev/nvme1n1p2  ext4      490617784 189257160 276365144  41% /
tmpfs           tmpfs     8085996       71020    8014976   1% /dev/shm
tmpfs           tmpfs     8085996       13092    8072904   1% /tmp
/dev/nvme1n1p1  vfat      523248       111108    412140   22% /boot
tmpfs           tmpfs     1617196       65744    1551452   5% /run/user/1000
/dev/nvme0n1p3  fuseblk   313701368 199324892 114376476  64% /run/media/tetroner/Windows
/dev/nvme0n1p1  fuseblk   347599556 156977516 190622040  46% /run/media/tetroner/Data
/dev/nvme0n1p5  fuseblk   314572792 219603152  94969640  70% /run/media/tetroner/Backup
[root@archlinux tetroner]# df -i
Filesystem      Inodes   IUsed    IFree IUse% Mounted on
dev             2018523    724    2017799    1% /dev
run             2021499   1229    2020270    1% /run
efivarfs         0          0         0     - /sys/firmware/efi/efivars
/dev/nvme1n1p2  31227904 1819201  29408703    6% /
tmpfs           2021499     74    2021425    1% /dev/shm
tmpfs           1048576     43    1048533    1% /tmp
/dev/nvme1n1p1   0          0         0     - /boot
```

```
[root@archlinux tetroner]# df -hT
Filesystem      Type      Size  Used Avail Use% Mounted on
dev              devtmpfs  7.8G   0    7.8G   0% /dev
run              tmpfs     7.8G  2.0M  7.8G   1% /run
efivarfs         efivarfs  192K   61K  127K  33% /sys/firmware/efi/efivars
/dev/nvme1n1p2  ext4      468G  181G  264G  41% /
tmpfs            tmpfs     7.8G   70M   7.7G   1% /dev/shm
tmpfs            tmpfs     7.8G   13M   7.7G   1% /tmp
/dev/nvme1n1p1  vfat      511M  109M  403M  22% /boot
tmpfs            tmpfs     1.6G   65M   1.5G   5% /run/user/1000
/dev/nvme0n1p3  fuseblk   300G  191G  110G  64% /run/media/tetroner/Windows
/dev/nvme0n1p1  fuseblk   332G  150G  182G  46% /run/media/tetroner/Data
/dev/nvme0n1p5  fuseblk   300G  210G   91G  70% /run/media/tetroner/Backup
[root@archlinux tetroner]# df -hT /home
Filesystem      Type      Size  Used Avail Use% Mounted on
/dev/nvme1n1p2  ext4      468G  181G  264G  41% /
```

```
[root@archlinux tetroner]# df -x /dev/nvme0n1p1
Filesystem      1K-blocks      Used Available Use% M
ounted on
dev              8074092          0    8074092   0% /dev
run              8085996        1992    8084004   1% /run
efivarfs         192            61        127  33% /sys/firmware/efi/efivars
/dev/nvme1n1p2  490617784 189258064 276364240  41% /
tmpfs            8085996        71020    8014976   1% /dev/shm
tmpfs            8085996       13092    8072904   1% /tmp
/dev/nvme1n1p1  523248       111108    412140  22% /boot
tmpfs            1617196       65744    1551452   5% /run/user/1000
/dev/nvme0n1p3  313701368 199324892 114376476  64% /run/media/tetroner/Windows
/dev/nvme0n1p1  347599556 156977516 190622040  46% /run/media/tetroner/Data
/dev/nvme0n1p5  314572792 219603152  94969640  70% /run/media/tetroner/Backup
```

5. Execute lsblk command with different options and interpret the outputs.

```
[root@archlinux tetroner]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
zram0       254:0    0     4G  0 disk [SWAP]
nvme1n1     259:0    0 476.9G  0 disk
├─nvme1n1p1 259:1    0   512M  0 part /boot
└─nvme1n1p2 259:2    0 476.4G  0 part /
nvme0n1     259:3    0 931.5G  0 disk
├─nvme0n1p1 259:4    0 331.5G  0 part /run/media/tetroner/Data
├─nvme0n1p2 259:5    0    16M  0 part
├─nvme0n1p3 259:6    0 299.2G  0 part /run/media/tetroner/Windows
├─nvme0n1p4 259:7    0   850M  0 part
└─nvme0n1p5 259:8    0   300G  0 part /run/media/tetroner/Backup
```

```
[root@archlinux tetroner]# lsblk -a
```

NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINTS
zram0	254:0	0	4G	0	disk	[SWAP]
nvme1n1	259:0	0	476.9G	0	disk	
└─nvme1n1p1	259:1	0	512M	0	part	/boot
└─nvme1n1p2	259:2	0	476.4G	0	part	/
nvme0n1	259:3	0	931.5G	0	disk	
└─nvme0n1p1	259:4	0	331.5G	0	part	/run/media/tetroner/Data
└─nvme0n1p2	259:5	0	16M	0	part	
└─nvme0n1p3	259:6	0	299.2G	0	part	/run/media/tetroner/Windows
└─nvme0n1p4	259:7	0	850M	0	part	

```
[root@archlinux tetroner]# lsblk -f
```

NAME	FSTYPE	FSVER	LABEL	UUID	FSAVAIL	FSUSE%	MOUNTPOINTS
zram0							[SWAP]
nvme1n1							
└─nvme1n1p1	vfat	FAT32		AD17-0900	402.5M	21%	/boot
└─nvme1n1p2	ext4	1.0		d01f8117-4198-4f3f-a361-9725ebacb093	263.6G	39%	/
nvme0n1							
└─nvme0n1p1	ntfs		Data	46B66B32B66B2223	181.8G	45%	/run/media/tetroner/Data
└─nvme0n1p2	ext4	1.0		62985261-bb42-4dd9-970e-ca3038cf9a9c			
└─nvme0n1p3	ntfs			00B4E530B4E5293C	109.1G	64%	/run/media/tetroner/Window

```
[root@archlinux tetroner]# lsblk -l
```

NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINTS
zram0	254:0	0	4G	0	disk	[SWAP]
nvme1n1	259:0	0	476.9G	0	disk	
nvme1n1p1	259:1	0	512M	0	part	/boot
nvme1n1p2	259:2	0	476.4G	0	part	/
nvme0n1	259:3	0	931.5G	0	disk	
nvme0n1p1	259:4	0	331.5G	0	part	/run/media/tetroner/Data
nvme0n1p2	259:5	0	16M	0	part	
nvme0n1p3	259:6	0	299.2G	0	part	/run/media/tetroner/Windows
nvme0n1p4	259:7	0	850M	0	part	
nvme0n1p5	259:8	0	300G	0	part	/run/media/tetroner/Backup

```
[root@archlinux tetroner]# lsblk -m
NAME          SIZE OWNER GROUP MODE
zram0          4G root  disk brw-rw----
nvme1n1        476.9G root  disk brw-rw----
├─nvme1n1p1     512M root  disk brw-rw----
└─nvme1n1p2  476.4G root  disk brw-rw----
nvme0n1        931.5G root  disk brw-rw----
├─nvme0n1p1  331.5G root  disk brw-rw----
├─nvme0n1p2    16M root  disk brw-rw----
├─nvme0n1p3  299.2G root  disk brw-rw----
├─nvme0n1p4   850M root  disk brw-rw----
└─nvme0n1p5   300G root  disk brw-rw----
[root@archlinux tetroner]# lsblk -o
lsblk: option requires an argument -- 'o'
Try 'lsblk --help' for more information.
```







```
[root@archlinux tetroner]# lsblk -b
NAME MAJ:MIN RM      SIZE RO TYPE MOUNTPOINTS
zram0 254:0    0    4294967296  0 disk [SWAP]
nvme1n1
  259:0    0    512110190592  0 disk
├─nvme1n1p1
  259:1    0      536870912  0 part /boot
└─nvme1n1p2
  259:2    0    511571918848  0 part /
nvme0n1
  259:3    0 1000204886016  0 disk
├─nvme0n1p1
  259:4    0    355941947904  0 part /run/media/tetroner/Data
├─nvme0n1p2
  259:5    0      16777216  0 part
├─nvme0n1p3
  259:6    0    321230204928  0 part /run/media/tetroner/Windows
├─nvme0n1p4
  259:7    0      891289600  0 part
└─nvme0n1p5
  259:8    0    322122543104  0 part /run/media/tetroner/Backup
```

```
[root@archlinux tetroner]# lsblk -p
NAME                                MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
/dev/zram0                          254:0     0    4G  0 disk [SWAP]
/dev/nvme1n1                        259:0     0 476.9G  0 disk
├─/dev/nvme1n1p1
│   259:1     0   512M  0 part /boot
└─/dev/nvme1n1p2
    259:2     0 476.4G  0 part /
/dev/nvme0n1                        259:3     0 931.5G  0 disk
├─/dev/nvme0n1p1
│   259:4     0 331.5G  0 part /run/media/tetroner/Data
├─/dev/nvme0n1p2
│   259:5     0   16M  0 part
├─/dev/nvme0n1p3
│   259:6     0 299.2G  0 part /run/media/tetroner/Windows
├─/dev/nvme0n1p4
│   259:7     0   850M  0 part
└─/dev/nvme0n1p5
    259:8     0   300G  0 part /run/media/tetroner/Backup
```

## Package Managers Ans:

```
sfit@mylinuxlab:/home/sfit
File Edit View Search Terminal Help
tmpfs 417432 0 417432 0% /run/user/0
[root@mylinuxlab sfit]# lsblk -a
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda 8:0 0 20G 0 disk
├─sda1 8:1 0 1G 0 part /boot
├─sda2 8:2 0 19G 0 part
└─centos-root 253:0 0 17G 0 lvm /
   └─centos-swap 253:1 0 2G 0 lvm [SWAP]
sr0 11:0 1 1024M 0 rom
[root@mylinuxlab sfit]# lsblk -l
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda 8:0 0 20G 0 disk
├─sda1 8:1 0 1G 0 part /boot
├─sda2 8:2 0 19G 0 part
└─centos-root 253:0 0 17G 0 lvm /
   └─centos-swap 253:1 0 2G 0 lvm [SWAP]
sr0 11:0 1 1024M 0 rom
[root@mylinuxlab sfit]# lsblk /dev/sda
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda 8:0 0 20G 0 disk
├─sda1 8:1 0 1G 0 part /boot
├─sda2 8:2 0 19G 0 part
└─centos-root 253:0 0 17G 0 lvm /
   └─centos-swap 253:1 0 2G 0 lvm [SWAP]
[root@mylinuxlab sfit]# lsblk -o name,size
NAME SIZE
sda 20G
├─sda1 1G
├─sda2 19G
└─centos-root 17G
   └─centos-swap 2G
sr0 1024M
[root@mylinuxlab sfit]# lsblk -m
NAME SIZE OWNER GROUP MODE
```



 sfit@mylinuxlab:~
  Microsoft Word - BARC\_informatio...
 




```
sfit@mylinuxlab:~  
File Edit View Search Terminal Help  
repolist: 0  
[sfit@mylinuxlab ~]$ yum repolist all  
Loaded plugins: fastestmirror, langpacks  
Loading mirror speeds from cached hostfile  
* base: mirrors.hoover.com  
* extras: mirror-hk.kodoss.net  
* updates: mirror-hk.kodoss.net  
repo id                                repo name                                status  
C7.0.1406-base/x86_64                  CentOS-7.0.1406 - Base                  disabled  
C7.0.1406-centosplus/x86_64            CentOS-7.0.1406 - CentOSPlus           disabled  
C7.0.1406-extras/x86_64                CentOS-7.0.1406 - Extras                disabled  
C7.0.1406-fasttrack/x86_64             CentOS-7.0.1406 - Fasttrack             disabled  
C7.0.1406-updates/x86_64                CentOS-7.0.1406 - Updates               disabled  
C7.1.1503-base/x86_64                  CentOS-7.1.1503 - Base                  disabled  
C7.1.1503-centosplus/x86_64            CentOS-7.1.1503 - CentOSPlus           disabled  
C7.1.1503-extras/x86_64                CentOS-7.1.1503 - Extras                disabled  
C7.1.1503-fasttrack/x86_64             CentOS-7.1.1503 - Fasttrack             disabled  
C7.1.1503-updates/x86_64                CentOS-7.1.1503 - Updates               disabled  
C7.2.1511-base/x86_64                  CentOS-7.2.1511 - Base                  disabled  
C7.2.1511-centosplus/x86_64            CentOS-7.2.1511 - CentOSPlus           disabled  
C7.2.1511-extras/x86_64                CentOS-7.2.1511 - Extras                disabled  
C7.2.1511-fasttrack/x86_64             CentOS-7.2.1511 - Fasttrack             disabled  
C7.2.1511-updates/x86_64                CentOS-7.2.1511 - Updates               disabled  
C7.3.1611-base/x86_64                  CentOS-7.3.1611 - Base                  disabled  
C7.3.1611-centosplus/x86_64            CentOS-7.3.1611 - CentOSPlus           disabled  
C7.3.1611-extras/x86_64                CentOS-7.3.1611 - Extras                disabled  
C7.3.1611-fasttrack/x86_64             CentOS-7.3.1611 - Fasttrack             disabled  
C7.3.1611-updates/x86_64                CentOS-7.3.1611 - Updates               disabled  
C7.4.1708-base/x86_64                  CentOS-7.4.1708 - Base                  disabled  
C7.4.1708-centosplus/x86_64            CentOS-7.4.1708 - CentOSPlus           disabled  
C7.4.1708-extras/x86_64                CentOS-7.4.1708 - Extras                disabled  
C7.4.1708-fasttrack/x86_64             CentOS-7.4.1708 - Fasttrack             disabled  
C7.4.1708-updates/x86_64                CentOS-7.4.1708 - Updates               disabled  
C7.5.1804-base/x86_64                  CentOS-7.5.1804 - Base                  disabled
```

```
sfit@mylinuxlab/home/sfit  
File Edit View Search Terminal Help  
Password:  
[root@mylinuxlab sfit]# yum remove tree  
Loaded plugins: fastestmirror, langpacks  
Resolving Dependencies  
--> Running transaction check  
--> Package tree.x86_64 0:1.6.0-10.el7 will be erased  
--> Finished Dependency Resolution  
  
Dependencies Resolved  
  
=====
```

Package	Arch	Version	Repository	Size
Removing: tree	x86_64	1.6.0-10.el7	@base	87 k

```
=====
```

Transaction Summary

Remove 1 Package

Installed size: 87 k  
Is this ok [y/N]: y  
Downloading packages:  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
Erasing : tree-1.6.0-10.el7.x86\_64 1/1  
Verifying : tree-1.6.0-10.el7.x86\_64 1/1

Removed:  
tree.x86\_64 0:1.6.0-10.el7

Complete!

```
sfit@mylinuxlab:/home/sfit
File Edit View Search Terminal Help
bash: tree: command not found...
[root@mylinuxlab sfit]# yum install tree
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
* base: mirrors.nextgen.com
* extras: mirrors.nextgen.com
* updates: mirrors.nextgen.com
Resolving Dependencies
--> Running transaction check
--> Package tree.x86_64 0:1.6.0-10.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
tree x86_64 1.6.0-10.el7 base 46 k
=====

Transaction Summary
=====
Install 1 Package

Total download size: 46 k
Installed size: 87 k
Is this ok [y/d/N]: y
Downloading packages:
tree-1.6.0-10.el7.x86_64.rpm | 46 kB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : tree-1.6.0-10.el7.x86_64
1/1
```

```
sfit@mylinuxlab:/home/sfit
File Edit View Search Terminal Help
[root@mylinuxlab sfit]# yum list kernel
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
* base: mirrors.nextgen.com
* extras: mirrors.nextgen.com
* updates: mirrors.nextgen.com
Installed Packages
kernel.x86_64 3.10.0-1160.el7 @anaconda
Available Packages
kernel.x86_64 3.10.0-1160.108.1.el7 updates
[root@mylinuxlab sfit]#
```

```
[root@mylinuxlab sfit]# yum info tree
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
* base: mirrors.nextgen.com
* extras: mirrors.nextgen.com
* updates: mirrors.nextgen.com
Installed Packages
Name : tree
Arch : x86_64
Version : 1.6.0
Release : 10.el7
Size : 87 k
Repo : installed
From repo : base
Summary : File system tree viewer
URL : http://mama.indstate.edu/users/ice/tree/
License : GPLv2+
Description : The tree utility recursively displays the contents of directories in a
: tree-like format. Tree is basically a UNIX port of the DOS tree
: utility.

[root@mylinuxlab sfit]#
```

```
sfit@mylinuxlab:/home/sfit
File Edit View Search Terminal Help
Transaction test succeeded
Running transaction
Warning: RPMDDB altered outside of yum.
Installing : tree-1.6.0-10.el7.x86_64
Verifying  : tree-1.6.0-10.el7.x86_64
1/1
1/1

Installed:
tree.x86_64 0:1.6.0-10.el7

Complete!
[root@mylinuxlab sfit]# rpm -qi tree
Name       : tree
Version    : 1.6.0
Release    : 10.el7
Architecture: x86_64
Install Date: Thu 15 Feb 2024 04:12:27 PM IST
Group      : Applications/File
Size       : 89505
License    : GPLv2+
Signature  : RSA/SHA256, Fri 04 Jul 2014 11:06:46 AM IST, Key ID 24c6a8a7f4a80eb5
Source RPM : tree-1.6.0-10.el7.src.rpm
Build Date : Tue 10 Jun 2014 12:58:53 AM IST
Build Host : worker1.bsys.centos.org
Relocations : (not relocatable)
Packager   : CentOS BuildSystem <http://bugs.centos.org>
Vendor     : CentOS
URL        : http://mama.indstate.edu/users/ice/tree/
Summary    : File system tree viewer
Description :
The tree utility recursively displays the contents of directories in a
tree-like format. Tree is basically a UNIX port of the DOS tree
utility.
[root@mylinuxlab sfit]#
```

```
sfit@mylinuxlab:/home/sfit
File Edit View Search Terminal Help
The tree utility recursively displays the contents of directories in a
tree-like format. Tree is basically a UNIX port of the DOS tree
utility.
[root@mylinuxlab sfit]# rpm -qc tree
[root@mylinuxlab sfit]# rpm -qa --last
tree-1.6.0-10.el7.x86_64 Thu 15 Feb 2024 04:12:27 PM IST
ftp-0.17-67.el7.x86_64 Thu 27 Apr 2023 09:57:53 AM IST
vsftpd-3.0.2-29.el7_9.x86_64 Thu 27 Apr 2023 09:25:51 AM IST
openssh-server-7.4p1-22.el7_9.x86_64 Wed 26 Apr 2023 09:53:23 AM IST
openssh-clients-7.4p1-22.el7_9.x86_64 Wed 26 Apr 2023 09:25:39 AM IST
openssh-7.4p1-22.el7_9.x86_64 Wed 26 Apr 2023 09:25:39 AM IST
telnet-0.17-66.el7.x86_64 Fri 21 Apr 2023 10:14:04 AM IST
telnet-server-0.17-66.el7.x86_64 Fri 21 Apr 2023 10:11:05 AM IST
gpg-pubkey-f4a80eb5-53a7ff4b Tue 18 Apr 2023 10:45:21 AM IST
words-3.0-22.el7.noarch Sat 15 Apr 2023 02:53:13 PM IST
rootfiles-8.1-11.el7.noarch Sat 15 Apr 2023 02:53:13 PM IST
iwl7260-firmware-25.30.13.0-79.el7.noarch Sat 15 Apr 2023 02:53:13 PM IST
iwl6050-firmware-41.28.5.1-79.el7.noarch Sat 15 Apr 2023 02:53:13 PM IST
iwl6000g2a-firmware-18.168.6.1-79.el7.noarch Sat 15 Apr 2023 02:53:13 PM IST
iwl6000-firmware-9.221.4.1-79.el7.noarch Sat 15 Apr 2023 02:53:13 PM IST
iwl3945-firmware-15.32.2.9-79.el7.noarch Sat 15 Apr 2023 02:53:13 PM IST
iwl100-firmware-39.31.5.1-79.el7.noarch Sat 15 Apr 2023 02:53:13 PM IST
man-pages-3.53-5.el7.noarch Sat 15 Apr 2023 02:53:12 PM IST
iwl5150-firmware-8.24.2.2-79.el7.noarch Sat 15 Apr 2023 02:53:11 PM IST
iwl4965-firmware-228.61.2.24-79.el7.noarch Sat 15 Apr 2023 02:53:11 PM IST
iwl3160-firmware-25.30.13.0-79.el7.noarch Sat 15 Apr 2023 02:53:11 PM IST
iwl2030-firmware-18.168.6.1-79.el7.noarch Sat 15 Apr 2023 02:53:11 PM IST
iwl135-firmware-18.168.6.1-79.el7.noarch Sat 15 Apr 2023 02:53:11 PM IST
iwl1000-firmware-39.31.5.1-79.el7.noarch Sat 15 Apr 2023 02:53:11 PM IST
traceroute-2.0.22-2.el7.x86_64 Sat 15 Apr 2023 02:53:10 PM IST
thai-scalable-waree-fonts-0.5.0-7.el7.noarch Sat 15 Apr 2023 02:53:10 PM IST
sil-padauk-fonts-2.8-5.el7.noarch Sat 15 Apr 2023 02:53:10 PM IST
sil-nuosu-fonts-2.1.1-5.el7.noarch Sat 15 Apr 2023 02:53:10 PM IST
setserial-2.17-33.el7.x86_64 Sat 15 Apr 2023 02:53:10 PM IST
```