



```
root@dhcp:/var/lib/tftpboot# ls
```

```
diskless1  ubuntu
```

```
root@dhcp:/var/lib/tftpboot# echo "Move dir to ubuntu subdir"
```

```
Move dir to ubuntu subdir
```

```
root@dhcp:/var/lib/tftpboot# mv diskless1/ ubuntu/
```

```
root@dhcp:/var/lib/tftpboot#
```



root@dhcp: /var/lib/tftpboot



joe@ftp-it4510: ~

joe@yavin: ~/s21/i...

joe@yavin: ~/f20/i...

joe@yavin: ~/s21/i...

joe@yavin: ~/Pictu...

root@dhcp: /var/li...

```
root@dhcp: /var/lib/tftpboot# vi ubuntu/pxelinux.cfg/default
```

```
path ubuntu-installer/amd64/boot-screens/  
include ubuntu-installer/amd64/boot-screens/menu.cfg  
default ubuntu-installer/amd64/boot-screens/vesamenu.c32  
#prompt 0  
timeout 10  
label netbooted-linux  
    menu default  
    menu label ubuntu  
    kernel ubuntu-installer/amd64/linux  
    append ks=http://cit.dixie.edu/it/3110/joe-notes-2021/netboot_2/ks.cfg vga=normal initrd=ub  
ntu-installer/amd64/initrd.gz ramdisk_size=16432 root=/dev/rd/0 rw --  
label debian  
    menu default  
    menu label debian  
    kernel debian-installer/amd64/linux  
    append vga=normal initrd=debian-installer/amd64/initrd.gz ramdisk_size=16432 root=/dev/rd/  
0 rw --  
label diskless-server  
    kernel diskless1/vmlinuz  
    append root=/dev/nfs initrd=diskless1/initrd.img nfsroot=144.38.199.35:/nfs/diskless ip=dhcp  
rw
```

```
~  
~  
~  
~  
~
```



```
root@nfs:~# echo "Now to create that nfs share"
```

```
Now to create that nfs share
```

```
root@nfs:~# mkdir -p /nfs/disker
```

```
root@nfs:~#
```



root@nfs: ~



joe@ftp-it4510: ~

joe@yavin: ~/s21/i...

joe@yavin: ~/f20/i...

joe@yavin: ~/s21/i...

root@nfs: ~

root@dhcp: /var/li...

```
root@nfs:~# vi /etc/exports
```

```
# /etc/exports: the access control list for filesystems which may be exported
# to NFS clients. See exports(5).
#
# Example for NFSv2 and NFSv3:
# /srv/homes hostname1(rw, sync, no_subtree_check) hostname2(ro, sync, no_subtree_check)
#
# Example for NFSv4:
# /srv/nfs4 gss/krb5i(rw, sync, fsid=0, crossmnt, no_subtree_check)
# /srv/nfs4/homes gss/krb5i(rw, sync, no_subtree_check)
#
/mnt/other 144.38.199.32/28(rw, sync, no_subtree_check)
/nfs/diskr 144.38.199.32/28(rw, no_root_squash, async, no_subtree_check)
```



root@nfs: ~



joe@ftp-it4510: ~

joe@yavin: ~/s21/i...

joe@yavin: ~/f20/i...

joe@yavin: ~/s21/i...

root@nfs: ~

root@dhcp: /var/li...

```
root@nfs:~# vi /etc/exports
```

```
root@nfs:~# sudo service nfs-kernel-server restart
```

```
root@nfs:~#
```



```
root@nfs:~# echo "Now we have to copy over the files needed to boot a new system"
```

```
Now we have to copy over the files needed to boot a new system
```

```
root@nfs:~# echo "this can be done by mounting the the share on a linux client and copying a  
ll the files over to the nfs share, or by using the debootstrap program"
```

```
this can be done by mounting the the share on a linux client and copying all the files over  
to the nfs share, or by using the debootstrap program
```

```
root@nfs:~# █
```




```
root@nfs:~# apt update
```

```
Hit:1 http://mirror.cs.dixie.edu/ubuntu focal InRelease
```

```
Get:2 http://mirror.cs.dixie.edu/ubuntu focal-updates InRelease [114 kB]
```

```
Get:3 http://mirror.cs.dixie.edu/ubuntu focal-backports InRelease [101 kB]
```

```
Get:4 http://mirror.cs.dixie.edu/ubuntu focal-security InRelease [109 kB]
```

```
Get:5 http://mirror.cs.dixie.edu/ubuntu focal-updates/main amd64 Packages [768 kB]
```

```
Get:6 http://mirror.cs.dixie.edu/ubuntu focal-updates/universe amd64 Packages [727 kB]
```

```
Fetch 1819 kB in 1s (1436 kB/s)
```





root@nfs: ~



joe@ftp-it4510: ~

joe@yavin: ~/s21/i...

joe@yavin: ~/f20/i...

joe@yavin: ~/s21/i...

root@nfs: ~

root@dhcp: /var/li...

```
root@nfs:~# apt install debootstrap systemd-container
```



root@nfs: ~



joe@ftp-it4510: ~

joe@yavin: ~/s21/i...

joe@yavin: ~/f20/i...

joe@yavin: ~/s21/i...

root@nfs: ~

root@dhcp: /var/li...

```
root@nfs:~# debootstrap bionic /nfs/disk/ http://mirror.cs.dixie.edu/ubuntu/
```