

# Mount paths with drvfs

Today I spent some time with Stuart in linux-chat working out why Plex couldn't see files on Docker on Alpine on WSL2 on Windows over an SMB share on the network to another windows host.

We were able to get this working by doing a drvfs mount on the ubuntu WSL2 kernel, added it to fstab, and then starting the plex container from within wsl2 via compose.

The final configs:

/etc/fstab

```
//192.168.4.80/TV /media/tv drvfs defaults 0 0
//192.168.4.80/Movies /media/movies drvfs defaults 0 0
```

mounts in memory (truncated for brevity)

```
drvfs on /media/tv type 9p
(rw,relatime,dirsync,aname=drvfs;path=UNC\192.168.4.80/TV;symlinkroot=/mnt/,mmap,access=client,msize=262144,trans=virtio)
drvfs on /media/movies type 9p
(rw,relatime,dirsync,aname=drvfs;path=UNC\192.168.4.80/Movies;symlinkroot=/mnt/,mmap,access=client,msize=262144,trans=virtio)
...
#/media/tv
drvfs on /mnt/wsl/docker-desktop-bind-mounts/Ubuntu-20.04/eb9beb42b66be85869c45a8e9d974dbc2c0b54f140e916651a8bd023ef835f26 type 9p
(rw,relatime,dirsync,aname=drvfs;path=UNC\192.168.4.80/TV;symlinkroot=/mnt/,mmap,access=client,msize=262144,trans=virtio)
#/media/movies
drvfs on /mnt/wsl/docker-desktop-bind-mounts/Ubuntu-20.04/6c1bf2b4364795af46e328868804222b43c9c901292966edc0ffa1ca3247ed87 type 9p
(rw,relatime,dirsync,aname=drvfs;path=UNC\192.168.4.80/Movies;symlinkroot=/mnt/,mmap,access=client,msize=262144,trans=virtio)
#/config
/dev/sdd on /mnt/wsl/docker-desktop-bind-mounts/Ubuntu-20.04/4510a910c7ceb4c75ac2a6f22441043d60d1c85d4837fc67e76342c85974b890 type ext4
```

```
(rw,relatime,discard,errors=remount-ro,data=ordered)
```

## Mounted FS (truncated for brevity)

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
drvfs	976760828	950763848	25996980	98%	/media/tv
drvfs	976760828	950763848	25996980	98%	/media/movies

## docker inspect (truncated for brevity)

```
$ cat dp.jq | jq .[0].Mounts
[
  {
    "Type": "bind",
    "Source": "/run/desktop/mnt/host/wsl/docker-desktop-bind-mounts/Ubuntu-
20.04/eb9beb42b66be85869c45a8e9d974dbc2c0b54f140e916651a8bd023ef835f26",
    "Destination": "/media/tv",
    "Mode": "rw",
    "RW": true,
    "Propagation": "rprivate"
  },
  {
    "Type": "bind",
    "Source": "/run/desktop/mnt/host/wsl/docker-desktop-bind-mounts/Ubuntu-
20.04/6c1bf2b4364795af46e328868804222b43c9c901292966edc0ffa1ca3247ed87",
    "Destination": "/media/movies",
    "Mode": "rw",
    "RW": true,
    "Propagation": "rprivate"
  },
  {
    "Type": "bind",
    "Source": "/run/desktop/mnt/host/wsl/docker-desktop-bind-mounts/Ubuntu-
20.04/4510a910c7ceb4c75ac2a6f22441043d60d1c85d4837fc67e76342c85974b890",
    "Destination": "/config",
    "Mode": "rw",
    "RW": true,
    "Propagation": "rprivate"
  }
]
```

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