□□ Mounting a Network Share for Docker on Debian

□□ Overview

This guide shows how to mount a CIFS/SMB network share on a Debian-based system and use it as a volume in Docker Compose. Useful when your Docker container needs access to shared files hosted on another machine (e.g., a NAS, Windows PC, or another Linux box).

□□ Step 1: Install CIFS Utilities

```
sudo apt update
sudo apt install cifs-utils
```

□□ Step 2: Create a Mount Point

```
sudo mkdir -p /mnt/downloads
```

□□ Step 3: Mount the Share

```
sudo mount -t cifs //LORGAR/Downloads /mnt/downloads -o
username=slitzer,password=blink182,vers=3.0
```

Replace:

- `//LORGAR/Downloads` — with the remote share path
- `username` and `password` — with valid credentials
- `vers=3.0` — adjust based on your SMB version (`2.0`, `3.1.1`, etc.)

□□ Optional: Persistent Mount via fstab

Edit `/etc/fstab`:

```
//LORGAR/Downloads /mnt/downloads cifs
username=slitzer,password=blink182,vers=3.0,uid=1000,gid=1000 0 0
```

Using a secure credentials file:

```
# /root/.smbcredentials
username=slitzer
password=blink182
```

Then in `/etc/fstab`:

```
//LORGAR/Downloads /mnt/downloads cifs
credentials=/root/.smbcredentials,vers=3.0,uid=1000,gid=1000 0 0
```

Don't forget: `chmod 600 /root/.smbcredentials`

□□ Step 4: Use in Docker Compose

Update your `docker-compose.yml`:

```
version: '3'
services:
  myapp:
    image: myapp/image
    volumes:
      - /mnt/downloads:/app/shared
```

This maps the mounted network share inside the container.

Troubleshooting

- Check if mounted: `mount | grep downloads` or `df -h`
- Check permissions: `ls -la /mnt/downloads`
- Logs: `dmesg`, `journalctl -xe`

TL;DR

```
sudo apt install cifs-utils
sudo mkdir -p /mnt/downloads
sudo mount -t cifs //REMOTE_HOST/Share /mnt/downloads -o username=...,password=...,vers=3.0
```

Then reference `/mnt/downloads` in your Docker volumes.

Pro Tip: Avoid hardcoding passwords by using credential files, especially for systems in production.

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