

10: Syncthing - File Synchronization

Syncthing provides continuous, peer-to-peer file synchronization across devices. For configuration reference and advanced topics (relays, discovery, ignore patterns), see the [official Syncthing documentation](#).

Dependency check

- Required: [Docker](#) (Chapter 3)
- Optional: [Traefik](#) (Chapter 4) + subdomain (Chapter 4.5) for HTTPS/UI exposure
- Optional: [Borgmatic](#) (Chapter 6) for file data protection

Prerequisites

- Docker running (Chapter 3)
- Optional: Traefik installed (Chapter 4) + subdomain (Chapter 4.5), e.g., `sync.example.com`
- Optional: Borgmatic installed (Chapter 6) for backups

Installation via Infinity Tools

Menu Installation

```
☐☐APPLICATIONS → Syncthing → Install
```

CLI Installation

```
sudo bash /opt/InfinityTools/Solutions/setup-syncthing.sh --install
```

Traefik Integration

Select Traefik mode to expose the web UI via HTTPS and a domain:

```
labels:
  - "traefik.enable=true"
  - "traefik.http.routers.syncthing.rule=Host(`sync.example.com`)"
  - "traefik.http.routers.syncthing.entrypoints=websecure"
  - "traefik.http.routers.syncthing.tls.certresolver=myresolver"
  - "traefik.http.services.syncthing.loadbalancer.server.port=8384" # Syncthing GUI

networks:
  - proxy
```

Standalone Access

Without Traefik, map the GUI port directly and use self-signed HTTPS:

```
ports:
  - "8384:8384" # Web GUI (HTTPS)
  # Syncthing protocol ports are internal to the container; peers connect via relay/UPnP/NAT
  traversal
```

Data & Configuration

```
volumes:
  - /opt/speedbits/syncthing/config:/var/syncthing
  - /opt/speedbits/syncthing/Documents:/sync/Documents
  - /opt/speedbits/syncthing/Photos:/sync/Photos
```

Security & Hardening

- Set GUI credentials (Settings → GUI)
- Restrict GUI to 0.0.0.0 only when behind Traefik; otherwise bind locally and reverse-proxy
- Consider IP allowlists via Traefik middleware for WAN exposure

Device Pairing

1. Retrieve Device ID from each peer (web UI → Actions → Show ID)
2. Add remote devices by ID; accept on the peer
3. Share specific folders with your peer device

Ignore Patterns

Use `.stignore` to exclude files:

```
# /opt/speedbits/syncthing/Documents/.stignore
*.tmp
.cache/
node_modules/
```

Operational Checks

```
# Containers
sudo docker ps | grep syncthing

# Logs
sudo docker logs syncthing --since 10m
```

Troubleshooting

- Ensure DNS resolves `sync.example.com` if using Traefik
- Confirm the GUI is reachable via Traefik or mapped port
- Validate folder permissions (UID/GID 1000 by default in LinuxServer images)

For advanced networking (relay servers, global discovery, NAT traversal), consult the [Syncthing docs](#).

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