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# ReadyNAS 5 OS (ARM)

**NETGEAR ReadyNAS Duo V2**

## Enable TLS 1.2 Support

Connect with old browser and install this package.

Apache 2.2.34 /w TLS 1.3 update

## Enable Samba 2 Support + Network Browsing

This will enable SMBv2 protocol on ReadyNAS Duo v2.

Samba 3.6.25 update
WSDD2 arm32 binary

You may start WSDD2 from /etc/init.d/readynas_startup for netbrowsing with SMBv2
Samba plugin on github

## Hotfix SACK CVE-2019-11477

Add to /etc/init.d/readynas_startup near start

```
echo 0 > /proc/sys/net/ipv4/tcp_sack
echo 0 > /proc/sys/net/ipv4/tcp_dsack
echo 0 > /proc/sys/net/ipv4/tcp_timestamps
```

* MiniDLNA don't like this!

## Max HDD capacity

**8TB is tested by me.** PMR no restrictions, SMR - JBOD only.
You can set RSync (Backup) in JBOD anyway → this can be better solution than RAID1

## Jumbo Frames

/etc/init.d/readynas_startup

```
ifconfig eth0 mtu 1600
```

Don't use more, kernel driver cannot work properly with HW acceleration enabled. ReadyNAS DuoV2 can do 97MB/s (776Mbit/s) reads from Samba

## Samba Log level

/etc/frontview/samba/addons/addons.conf

```
[global]
```

```
log level = 1
```

## ext3 Format

(much faster than ext4 - you can fill up to 100% disk space)
-i bytes per inode (4096-65536)

```
mkfs.ext3 -b 4096 -i 16384 /dev/d/d
tune2fs -i0 -c -1 -o user_xattr,acl /dev/d/d

tune2fs -o journal_data_writeback
```

Remove root reserved space

```
tune2fs -m 0 /dev/d/d
```

## Performance Tuning

Mount fstab (UPS recommended)

```
/dev/c/c        /c      ext3
defaults,acl,user_xattr,noatime,nodiratime,nobh,commit=40,data=writeback       0 2
```

```
/dev/c/c        /c      ext4
defaults,acl,user_xattr,noatime,nodiratime,nobh,jqfmt=vfsv0,data=writeback,oldalloc       0 2
```

Little tuning in **/etc/init.d/readynas_startup** put near start

```
echo deadline >/sys/block/sda/queue/scheduler
echo deadline >/sys/block/sdb/queue/scheduler
```

Turn off quotas! Don't start cups! (is_rackmount=1)

## USB Mounts config

```
/etc/frontview/usb/storage.conf
```

## Disable APPGENIE

/etc/frontview/addons/bin/APPGENIE/cp.d/cpinst/cp_updater.sh –> put **exit 0** at start
or remove it completely rm -r /etc/frontview/addons/bin/APPGENIE/

## Transmission Message Level

/transmission/settings.json
message-level: 1

## MiniDLNA

```
grep -q -F 'root_container=B' /etc/minidlna.conf || echo 'root_container=B'
>>/etc/minidlna.conf
grep -q -F 'strict_dlna' /etc/minidlna.conf || echo 'strict_dlna=no' >>/etc/minidlna.conf
sed -i '/album_art_names/d' /etc/minidlna.conf
```

## More Downloads

| File | Description |
|---|---|
| Enable Root Access | This enable SSH access to ReadyNAS |
| HTop | HTop bash utility |
| Enable MySQL Access | Enable access to built in MySQL 5.1.49 |
| PHP 5.4.3 ARM | Install PHP 5.4.3 |
| Transmission 2.92 ARM | Bittorent Client for ReadyNAS5 |

# Custom ROMs

https://senpai.club/upgrade-readynas-duo-v2-to-latest-debian/index.html
http://natisbad.org/NAS/index.html
https://nickbel.com/2021/04/22/readynas-duo-v2-debian-10-noveyshiy-linux-510-lt.html

From:
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Permanent link:
**https://wiki.janforman.com/storage:readynas?rev=1704586829**

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