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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 1.2 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	Bittorrent 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>

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