

# Running Your Own Application at Startup

提供: QNAPedia

Some advanced uses of your NAS may require you to run custom applications at boot-time. Even though QNAP NAS are Linux-based, you cannot use the usual Linux methods for launching an application at startup: default config files are reset on every startup.

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## Skills required

- must be able to remote login via ssh or telnet (e.g. use **SSH PuTTY**)
- must know how to edit files using nano, vi, or edit via SFTP (e.g. use **WinSCP**)

## MTD-based method

autorun.sh is a script which will be executed on every startup of the TS-x09, TS-x19 and TS-x39. Editing this file allows you to start your own programs or overwrite config files with your own copies.

### Manual edit of autorun.sh

1. Log into your QNAP device using SSH or Telnet, for instance by using Putty
2. Optional: install nano; use **ipkg install nano** & edit with nano instead of vi
3. Mount config ramblock by finding your specific model below:

**TS-201:** Mount the config ramblock /dev/mtdblock4:

```
1. mount -t ext2 /dev/mtdblock4 /tmp/config
```

**TS-109, TS-109P, TS-110, TS-119, TS-209, TS-209P, TS-212, TS-219 (TS-219P II):** since the new firmware update you maybe have to use ext4 instead of ext2), **TS-409 (Marvell ARM), TS-412, TS-419P:**

Mount the config ramblock /dev/mtdblock5:

```
mount -t ext2 /dev/mtdblock5 /tmp/config
```

**TS-439, TS-509, TS-639, TS-809, TS-809U (x86):**

Mount the config ramblock /dev/sdx6:

```
mount -t ext2 /dev/sdx6 /tmp/config
```

**TS-269L:** Mount the config ramblock /dev/sdc6:

```
mount -t ext2 /dev/sdc6 /tmp/config
```

**All HAL-based Intel and AMD NAS:**

Starting from QTS 4.3.3 it's required to enable the autorun.sh processing in the Control Panel -> Hardware -> General: Run user defined startup processes (autorun.sh)

```
mount $(/sbin/hal_app --get_boot_pd port_id=0)6 /tmp/config
```

**Create/Edit /tmp/config/autorun.sh.**

1. either using vi:

```
# vi /tmp/config/autorun.sh
```

- 1.
2. Get vi editor into edit mode: **press a**
  1. Edit whatever you need to
  2. Exit edit mode: **press ESC**
  3. Save and exit: **x**
3. or editing it using a desktop PC and e.g. SFTP
4. Ensure that /tmp/config/autorun.sh is executable

```
# chmod +x /tmp/config/autorun.sh
```

1. **IMPORTANT:** Unmount the mounted flash partition:

```
# umount /tmp/config
```

## editautorun.sh: script to ease autorun.sh edit

If you edit this file regularly you can save some time by creating a shell script (e.g. editautorun.sh) to automate the process. You can call the script by either putting it in the environment path, or add its folder to the path or call it by an alias.

The script contents are:

For TS-201 use ...

```
mount -t ext2 /dev/mtdblock4 /tmp/config
vi /tmp/config/autorun.sh
chmod +x /tmp/config/autorun.sh
echo .
echo "unmounting /tmp/config..."
umount /tmp/config
```

For TS-109, TS-109P, TS-119, TS-209, TS-209P, TS-219, TS-412, TS-409 (Marvell ARM) use ...

```
mount -t ext2 /dev/mtdblock5 /tmp/config
vi /tmp/config/autorun.sh
chmod +x /tmp/config/autorun.sh
echo .
echo "unmounting /tmp/config..."
umount /tmp/config
```

TS-439, TS-509, TS-639, TS-809, TS-809U (x86) use ...

```
mount -t ext2 /dev/sdx6 /tmp/config
vi /tmp/config/autorun.sh
chmod +x /tmp/config/autorun.sh
echo .
```

```
echo "unmounting /tmp/config..."  
umount /tmp/config
```

All HAL-based Intel and AMD NAS use ...

```
mount $(/sbin/hal_app --get_boot_pd port_id=0)6 /tmp/config  
touch /tmp/config/autorun.sh  
chmod +x /tmp/config/autorun.sh  
$EDITOR /tmp/config/autorun.sh  
umount /tmp/config
```

TAS-x68, TS-x28 use ...

```
/bin/mount -t ext4 /dev/mmcblk0p7 /tmp/config  
vi /tmp/config/autorun.sh  
chmod +x /tmp/config/autorun.sh  
echo .  
echo "unmounting /tmp/config..."  
umount /tmp/config
```

All AL-based NAS(TS-x31+ and TS-x31X) and TS-x31 use ...

```
ubiaattach -m 6 -d 2  
/bin/mount -t ubifs ubi2:config /tmp/config  
vi /tmp/config/autorun.sh  
chmod +x /tmp/config/autorun.sh  
echo .  
echo "unmounting /tmp/config..."  
umount /tmp/config  
ubidetach -m 6
```

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