■ PROJECT:**TURRIS** /doc

LXC containers on mSATA drive

Turris offers the possibility to create virtual installations using LXC containers.
It is useful for isolation of basic networking functionality of router from other
functionalities or experiments. This simple tutorial describes, how to set
installation of LXC containers on the mSATA disk, which is recommended for not to
wear out the internal FLASH memory.

Installation of mSATA disk

- Hardware installation of the new mSATA disk is perfectly described in this
  videotutorial [https://youtu.be/71_M2N3ga7s].
- Partition the new disk as you need by the `fdisk /dev/sda` command using SSH
  console after the hardware disc installation.
- Use `mkfs.ext4` for creation of filesystem on the new partitions (for example
  `mkfs.ext4 /dev/sda1`).

Mounting of the disk

- Find the UUID of chosen partition by `blkid /dev/sda1` command
- Edit the `/etc/config/fstab` file and insert new `config mount` section below the `config
  global` section. The content of the new section should be:

```
config mount
      option uuid 'your-partition-uuid-number-here'
      option enabled '1'
      option target '/srv/lxc'
```

- Save the file and restart the router
- Login to SSH and take a look at the output of the `mount` command. You should see
  your /dev/sdaX partition mounted on /srv/lxc, the place where router installs
  LXC containers by default. Also you should see it using LuCI under the menu
  System.
- Then you can begin with the LXC containers installation exactly as described in
  the LXC howto and the containers will be placed on your mSATA drive.

Turris is developed by CZ.NIC, z. s. p. o. ....