

Booting and running OpenWrt from Btrfs

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The GOOD things

- **SSD-friendly**
- **snapshots and subvolumes**
- **performance**



The BAD things

- **occasional bugs**
- **FS must be created on the device**
- **worse behavior on power loss**



How?

- **read support in U-Boot – from Syslinux**
- **force reliable writes – kernel patch**
- **support in buildroot rescue image**



Usage: schnapps command [options]

Commands:

create [opts] [desc] Creates snapshot of current system

Options:

-t type

Type of the snapshot - default 'single'

Other options are 'time', 'pre' and 'post'

list Show available snapshots

cleanup [--compare] Deletes old snapshots and keeps only N newest

You can set number of snapshots to keep in /etc/config/schnapps

Current value of N is following for various types (-1 means infinite):

* -1 single snapshots

* 5 time based snapshots

* 5 updater snapshots

* 3 rollback backups snapshots

With --compare option also deletes snapshots that doesn't differ from the previous one

delete <number> [...] Deletes snapshot corresponding to the number(s)

Numbers can be found via list command

modify <number> [opts] Modify metadata of snapshot corresponding to the number

Numbers can be found via list command

Options:

-t type

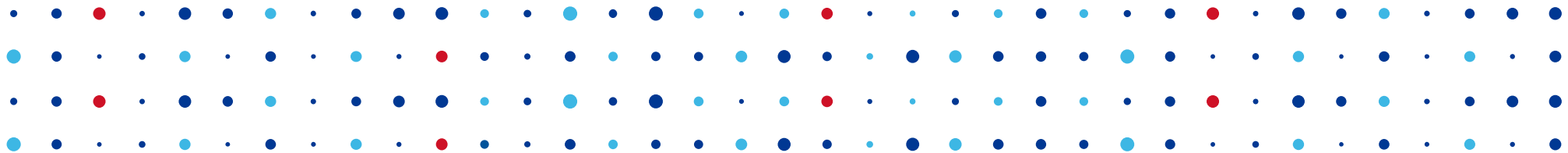
Type of the snapshot - default 'single'

Schnapps

Cool stuff we can do:

- **automatic snapshots before update**
- **rollback by holding a button**
- **factory-defaults image as a snapshot**





Thank You

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