napp-it — Quick Guide & Checklists

Quick start for beginners

Updated: November 2023 | napp-it.org
Translated and optimized.

1. OmniOS + napp-it SE Setup

Minimum

- Boot disk: 30 GB (SSD recommended)
- RAM: 4 GB (more = better)
- Network: 1 GbE
- HBA: AHCI/SATA or LSI/Broadcom SAS

Recommended

- Boot disk: 60 GB + 2x RAM size
- RAM: 16–64 GB ECC
- Network: 10 GbE
- HBA: Broadcom 930x/9400 IT firmware

Install OmniOS

- Download: https://omnios.org/download.html
- Create USB: napp-it.org/doc/downloads/usb_image.zip
- Boot from USB, run installer, confirm bootdisk name: rpool
- Network: DHCP recommended, then reboot

Install napp-it SE

```
wget -O - www.napp-it.org/nappit | perl
```

- Set root password: **passwd root**
- Open browser: **http://server-ip:81**

2. Pool Concepts

- **Mirror:** 2 disks — best performance, 1 disk fault tolerance
- **RAIDZ1:** 3+ disks — 1 disk fault tolerance, ~67-80% capacity
- **RAIDZ2:** 4+ disks — 2 disk fault tolerance (recommended for production)
- **RAIDZ3:** 5+ disks — 3 disk fault tolerance

3. Basic Maintenance

Scrub (recommended: weekly)

```
zpool scrub poolname
```

Pool status

```
zpool status && zpool list
```

Create snapshot

```
zfs snapshot poolname/dataset@name
```

Replication over network

```
zfs send pool/data@snap | ssh backup-server zfs receive backup/data
```