

Tuning for nerds

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Advanced performance ideas – tmpfs, JVM/hugepages, PostgreSQL tuning and VirtIO for virtual machines.

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APPLIES TO NUCLOS 4.2026.X

On this page

- [Linux](#)
- [Virtualization](#)
- [Related pages](#)



For advanced users only

The following suggestions are a **collection of ideas** (mostly for Linux) aimed at advanced users with solid Java and OS knowledge. **Always** verify that a change actually improves performance in your setup.

Linux

- **/tmp on tmpfs**: beneficial especially for development with Eclipse and the compile-time AspectJ weaver.
- **Java VM tuning**: review JVM options; consider enabling **hugepages** for the JVM, PostgreSQL and Oracle.
- **PostgreSQL**: kernel-level tuning and PG cookbook recommendations.

Virtualization

VirtualBox, Docker (lightweight Linux containers) and Vagrant (repeatable environments). If Windows runs as a VirtualBox VM, the **VirtIO (virtio-net)** network driver increases throughput and lowers CPU load:

1. Mount the VirtIO driver ISO (storage IDE CD).
2. Network Advanced Adapter type *Paravirtualized network (virtio-net)*.
3. Restart the VM and update the network driver from the ISO in the device manager.
4. Unmount the ISO afterwards.

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