

# VM / Hypervisor

## Terms

- Hypervisors
  - KVM
  - Hyper-V
  - ESXi
- OpenVZ
- KSM - [Kernel Samepage Merging](#)

## Choice

- [What is the most appropriate "hypervisor" ecosystem for a home lab?](#)
- [XCP-NG vs. Proxmox?](#)
- [Comparative Analysis Of Proxmox VE And Xenserver As Type 1 Open Source Based Hypervisors](#)
- VMware ESXi
- Proxmox
- XCP-ng
- vSphere
- oVirt (RHEV)
- Xen
  - [XEN PROJECT](#)
    - Open source, free, no corporate support
  - [XenServer](#) ⇒ Citrix Hypervisor
    - XenServer is an enterprise-class, cloud-proven, virtualization platform that delivers all of the critical features needed for any server and datacenter virtualization implementation.
    - XenServer is a Linux distribution that is based on the Xen hypervisor, the Linux kernel, and the CentOS Linux distribution and user tools.
    - free version is limited
    - windows management client
  - XCP-ng
    - (+) Nice **Windows** GUI Tool XCP-ng Center
    - (-) No WEB UI
    - (+) Xen Orchestra independent Web GUI: centralised management tool. Capable to manage multiple locations, moving VMs between locations.
      - delta backups, continuous replication
    - (-) Thin provisioning only on local EXT3/4 fs, NFS, File, XOSAN (VDI files)
      - Block based devices only with THICK provisioning (local LVM, iSCSI, HBA)
    - (-) experimental ZFS
- Proxmox
  - (+) simple
  - virtualization

- (+) KVM virtualization
- (+) native support for LXC
- (-) no docker support
- (+) Debian based - possible to do lots of unsupported things from OS
- (+) run on any HW
- (+) GPU/PCI passthrough
- (+) Clustering - one web interface to manage multiple nodes (but not separate locations)
- (+) CEPH, NFS, CIFS
- (+) ZFS
- (+) working memory ballooning
- (+) KSM

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