RAID types

RAID (Redundant Array of Inexpensive Disks or Drives, or Redundant Array of Independent Disks).

Purposes:

performance improvement (max. write read speed),

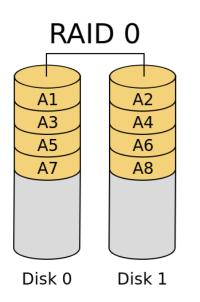
increased data security against hard drive failure.

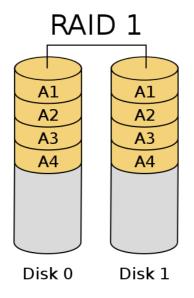
Hardware RAID = RAID controller

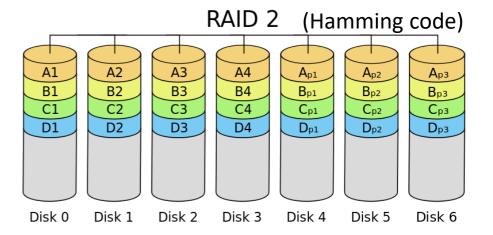
or

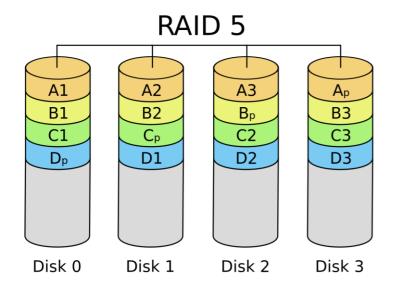
Sofware RAID

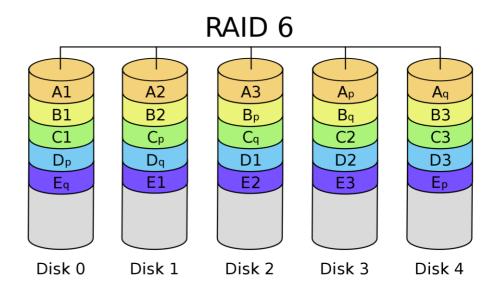
RAID types



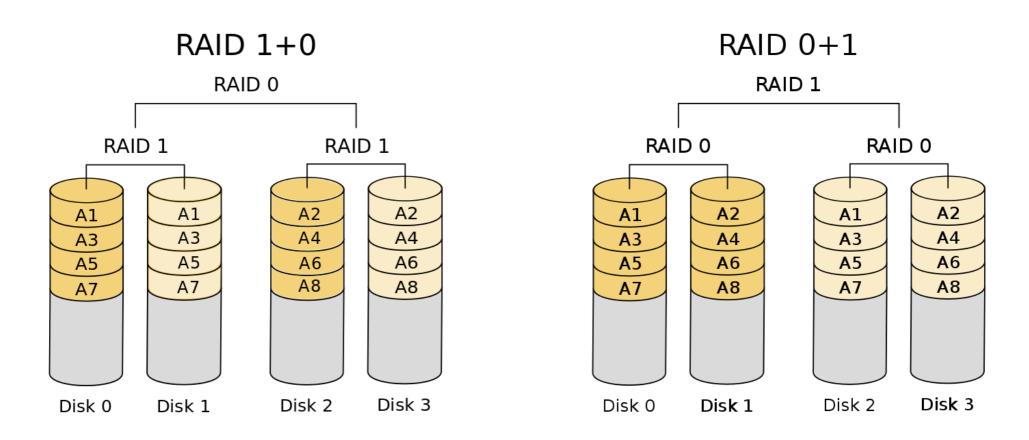




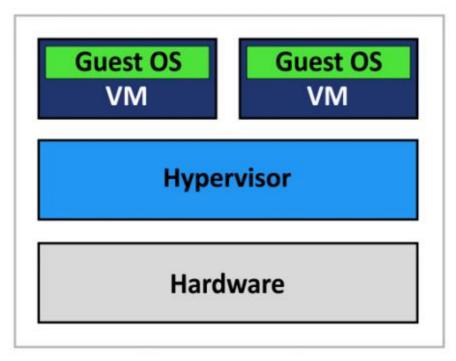




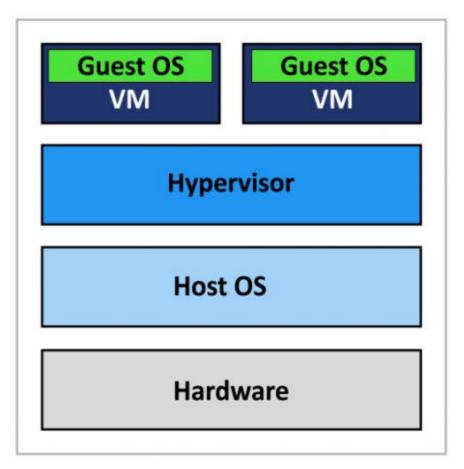
Mixed RAID types principle



Virtual machine approach

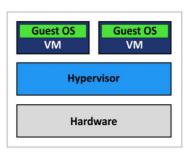


Type 1 Hypervisor (Bare-Metal Architecture)

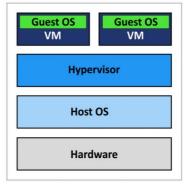


Type 2 Hypervisor (Hosted Architecture)

Virtual machine approach



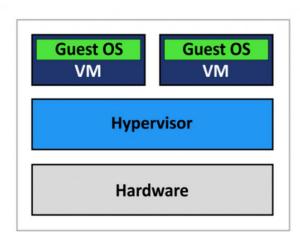
Type 1 Hypervisor (Bare-Metal Architecture)



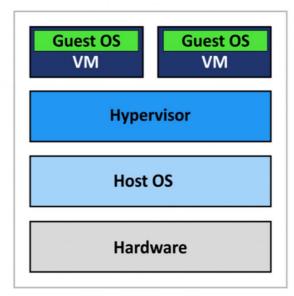
Type 2 Hypervisor (Hosted Architecture)

Vmware ESXi Microsoft Hyper-V Server Citrix XenServer KVM VMware Workstation Virtualbox

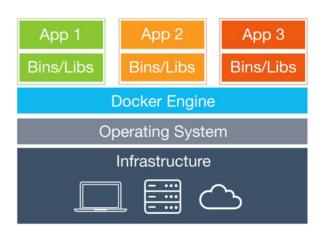
VM vs Docker



Type 1 Hypervisor (Bare-Metal Architecture)

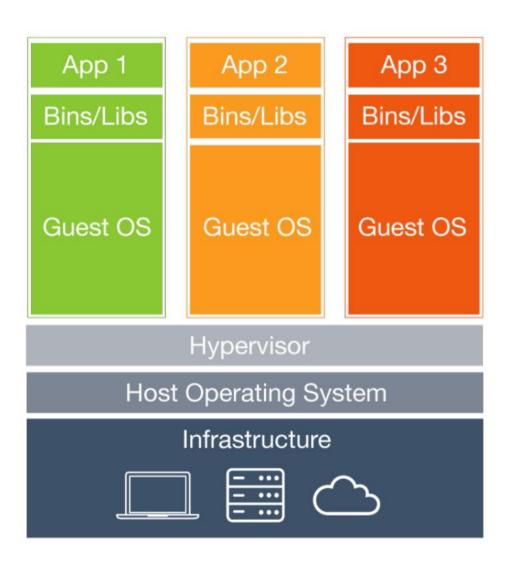


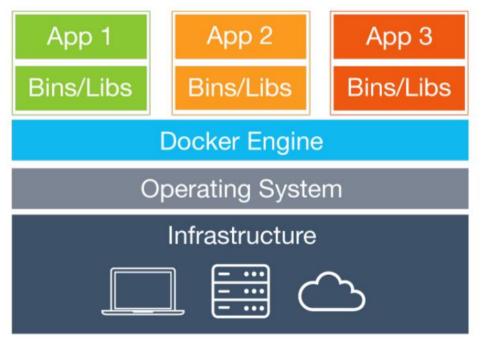
Type 2 Hypervisor (Hosted Architecture)



Docker

VM vs Docker





Docker Essentials

https://docs.docker.com/get-started/