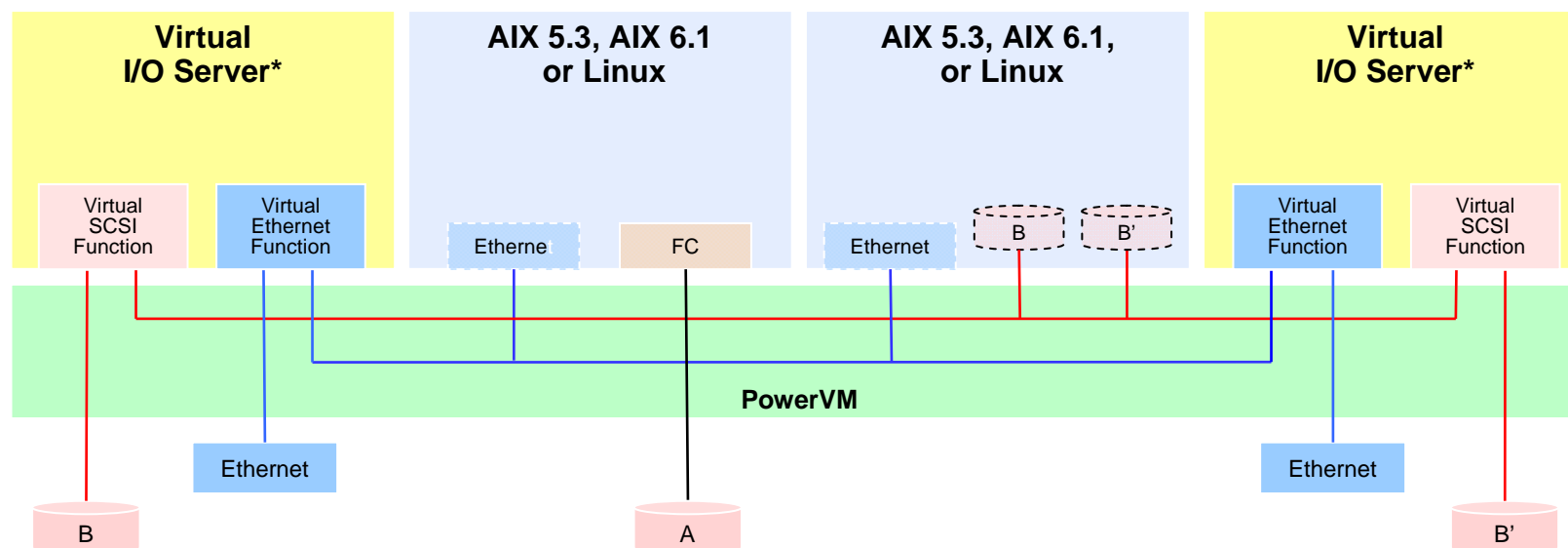


虚拟 I/O 包括



➤ 虚拟 I/O 的架构:

- 支持虚拟设备和物理设备的混合
- 支持多个VIO 服务器

➤ 虚拟 SCSI

- 虚拟 SCSI, Fibre Channel, 和 DVD
- 逻辑卷/物理卷组成的虚拟磁盘
- 可做多路径和冗余配置

➤ 使用虚拟I/O优点

- 减少 I/O抽屉,卡,端口使用的数量
- 提高部署速度

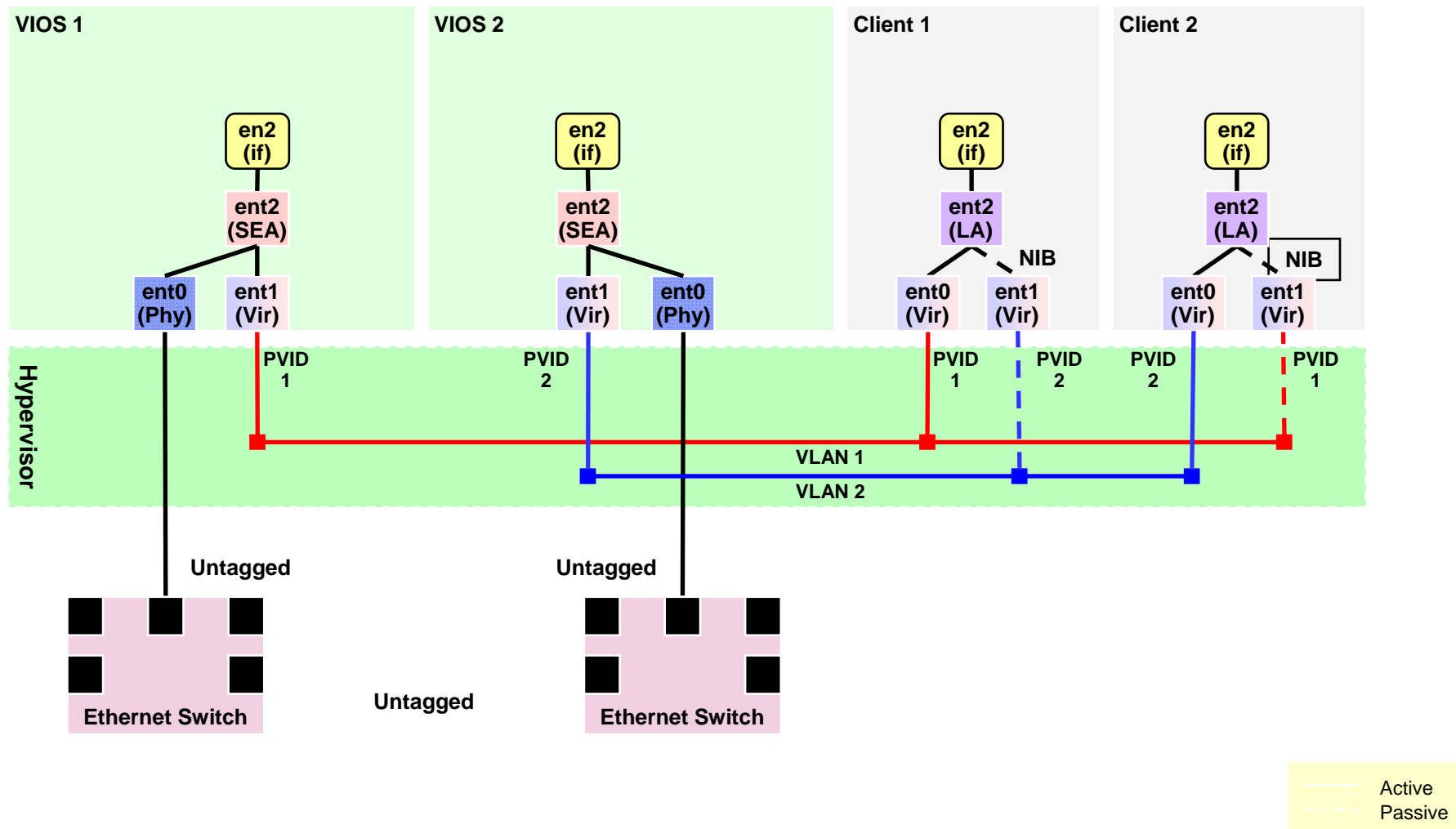
➤ 虚拟以太网卡

- 支持,VLAN ,支持链路聚合
- V LAN实现分区之间的通讯
- 支持高可用配置

*

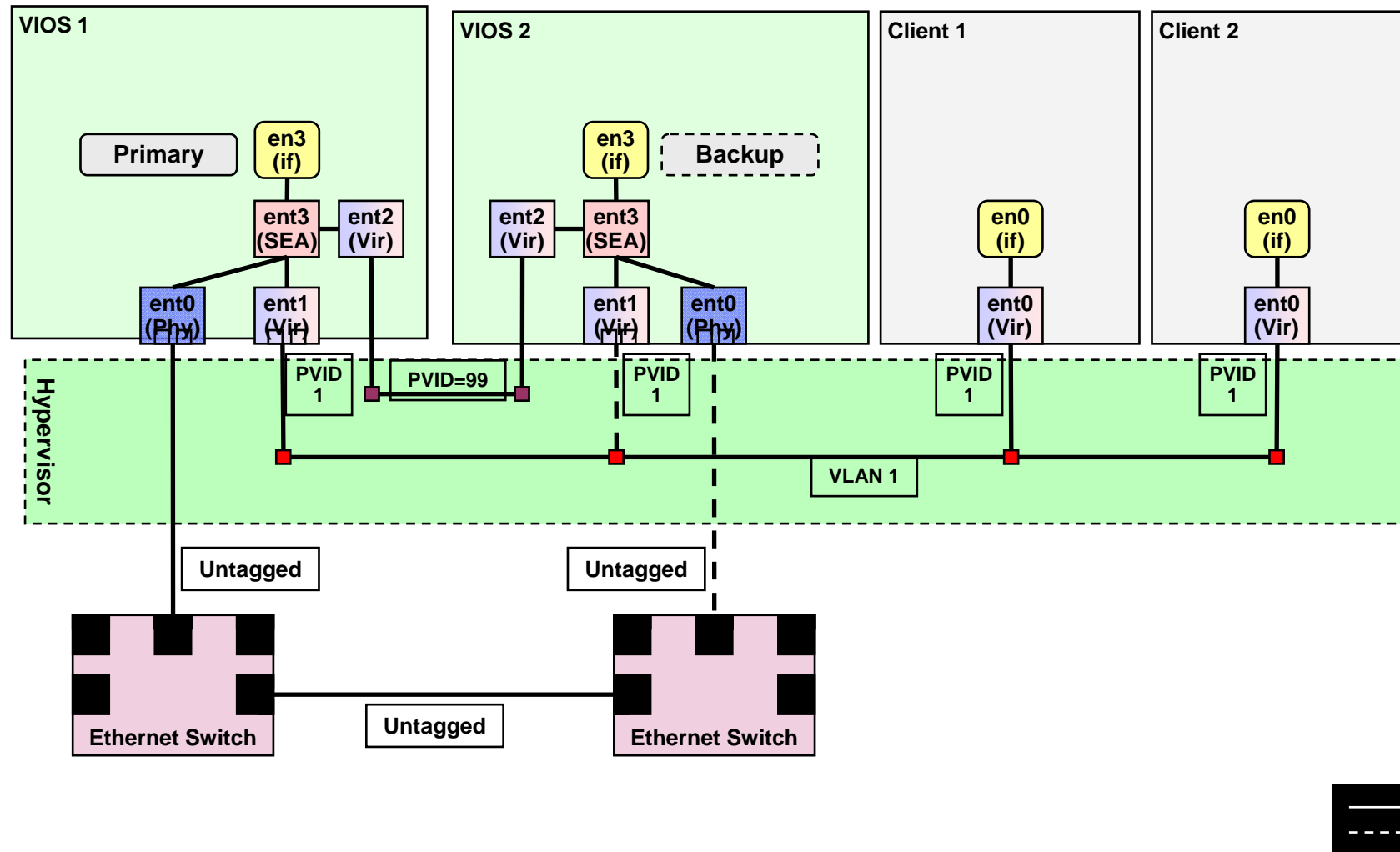
虚拟网卡的高可用性(1)

AIX Network Interface Backup (NIB), Dual VIOS



虚拟网卡的高可用性(2)

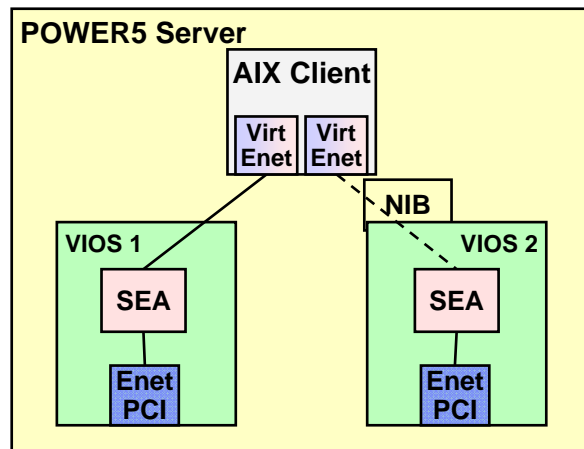
Shared Ethernet Adapter Failover, Dual VIOS



VIOS 网卡高可用对比:

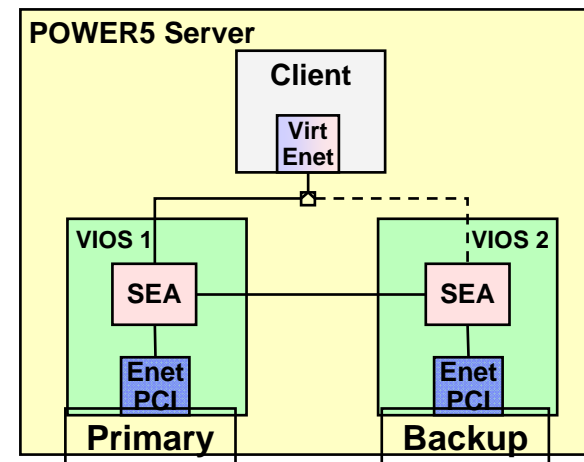
➤ Network Interface Backup

- Must be set up in each client.
- Needs to ping outside host from each client to initiate NIB failover.
- Can load share clients across SEAs but LPAR to LPAR communications will happen through external switches
- VLAN-tagged traffic is not supported.
- Supported only on AIX.

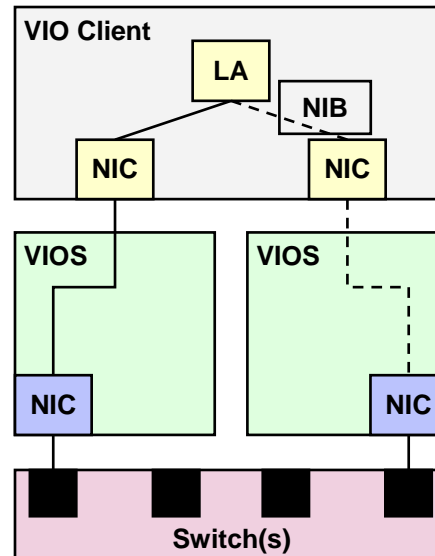
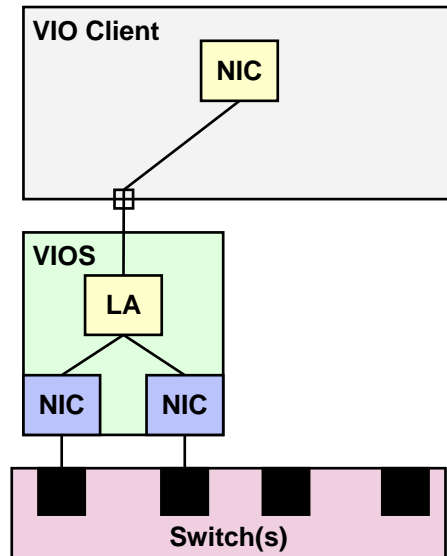


➤ Shared Ethernet Adapter Failover

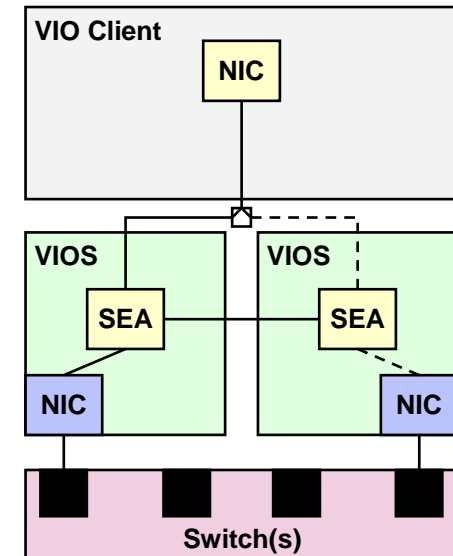
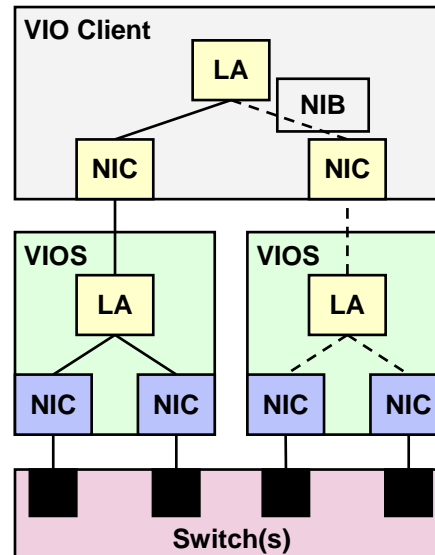
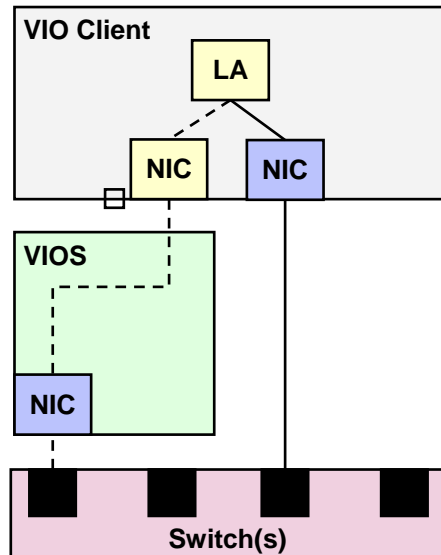
- Set up in the VIOS's only.
- Optional ping is done in VIOS on behalf of all clients.
- Cannot load-share clients between the primary and backup SEA.
- VLAN-tagged traffic is supported.
- Supported on AIX and Linux on POWER.



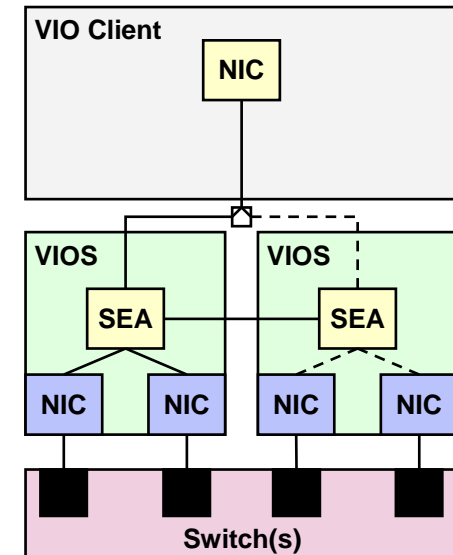
High Availability – Virtual Ethernet Options (VIOs)



Network Interface Backup

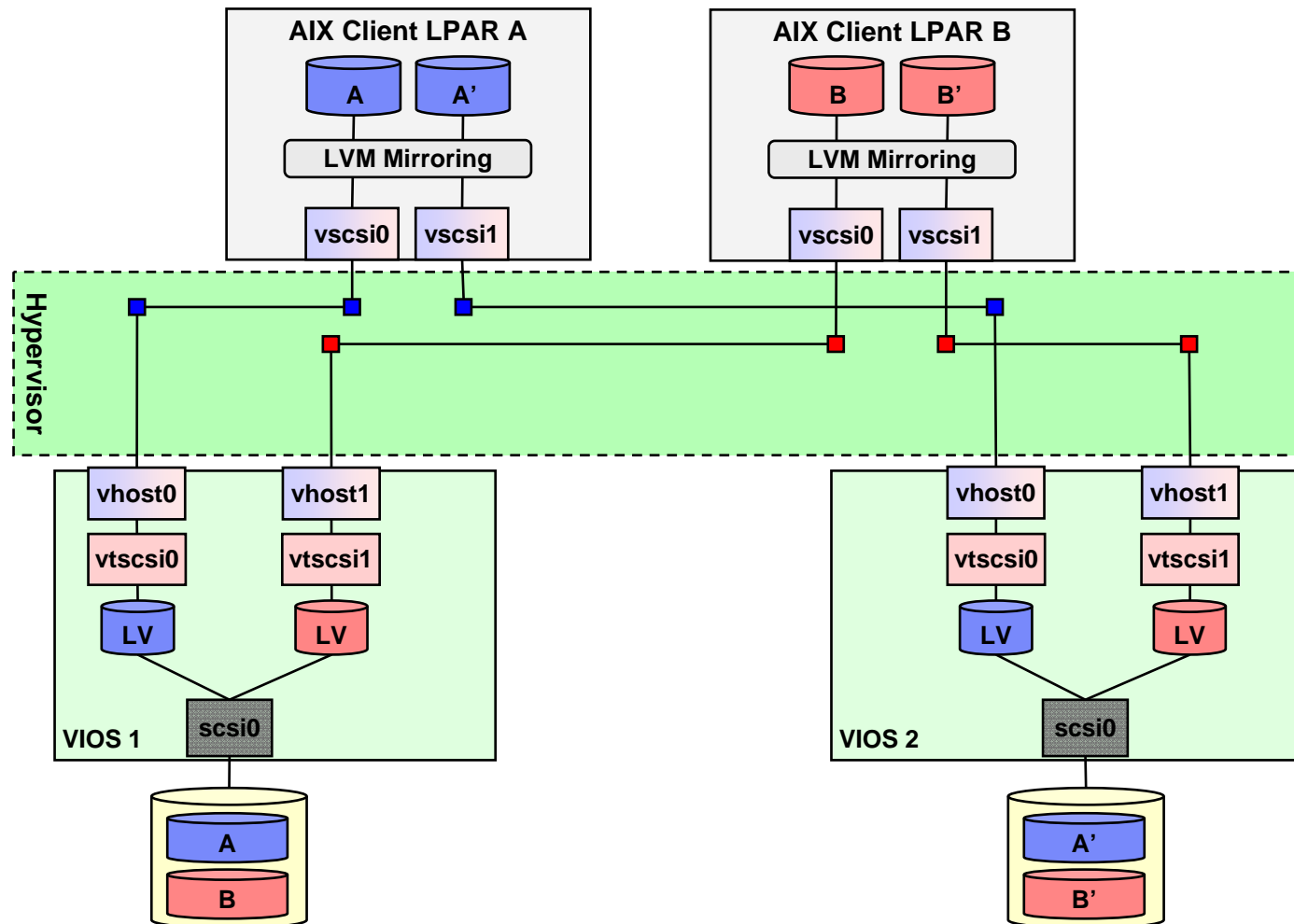


Shared Ethernet Adapter Failover



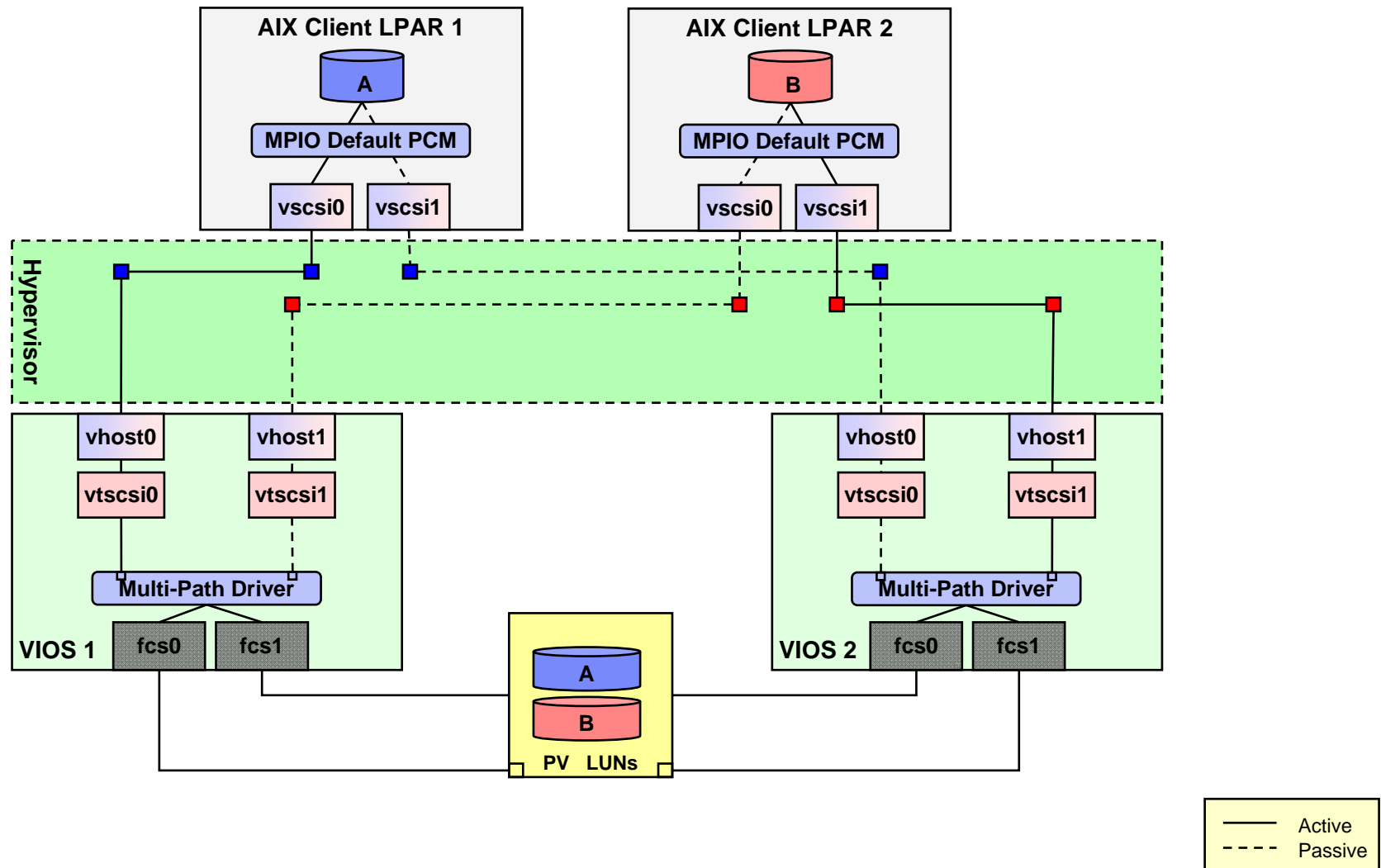
虚拟SCSI的高可用性(1)

AIX Client分区做LV镜像, VIOS, LV VSCSI Disks都是单路径



虚拟SCSI的高可用性(2)

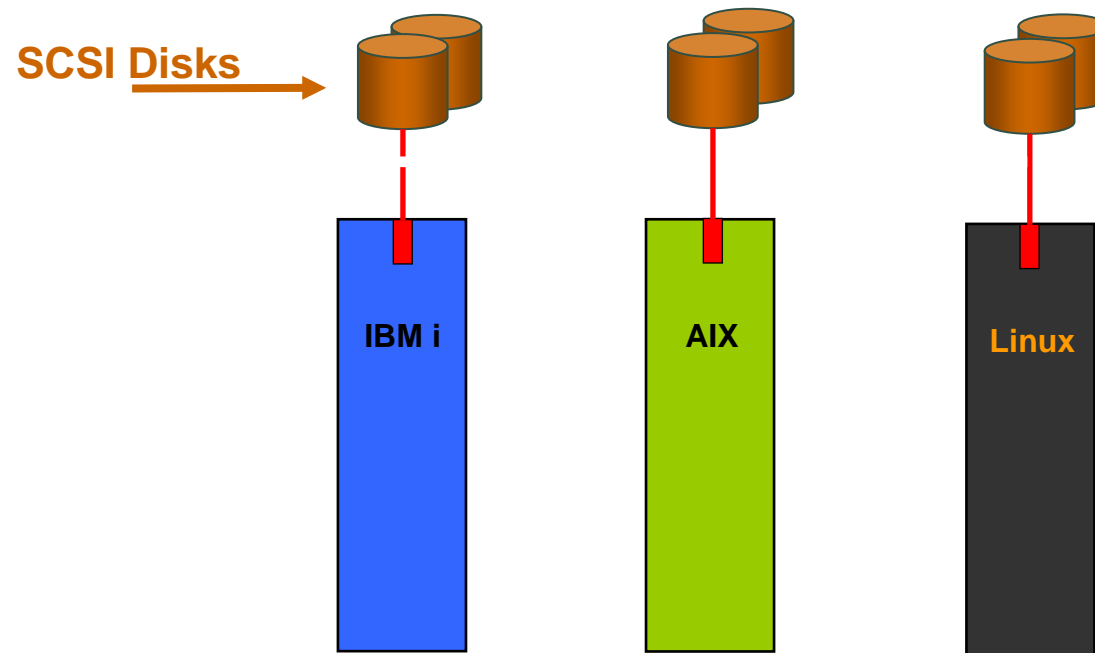
客户端分区 AIX MPIO, VIOS 分区 Multi-Path I/O



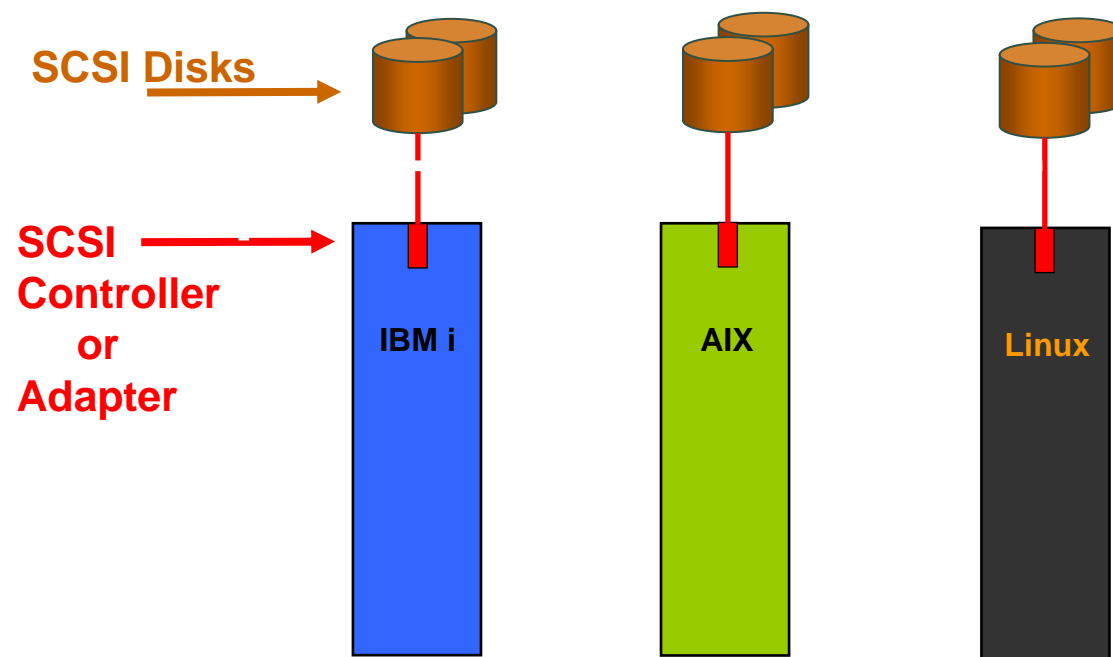
逻辑分区中物理存储的连接



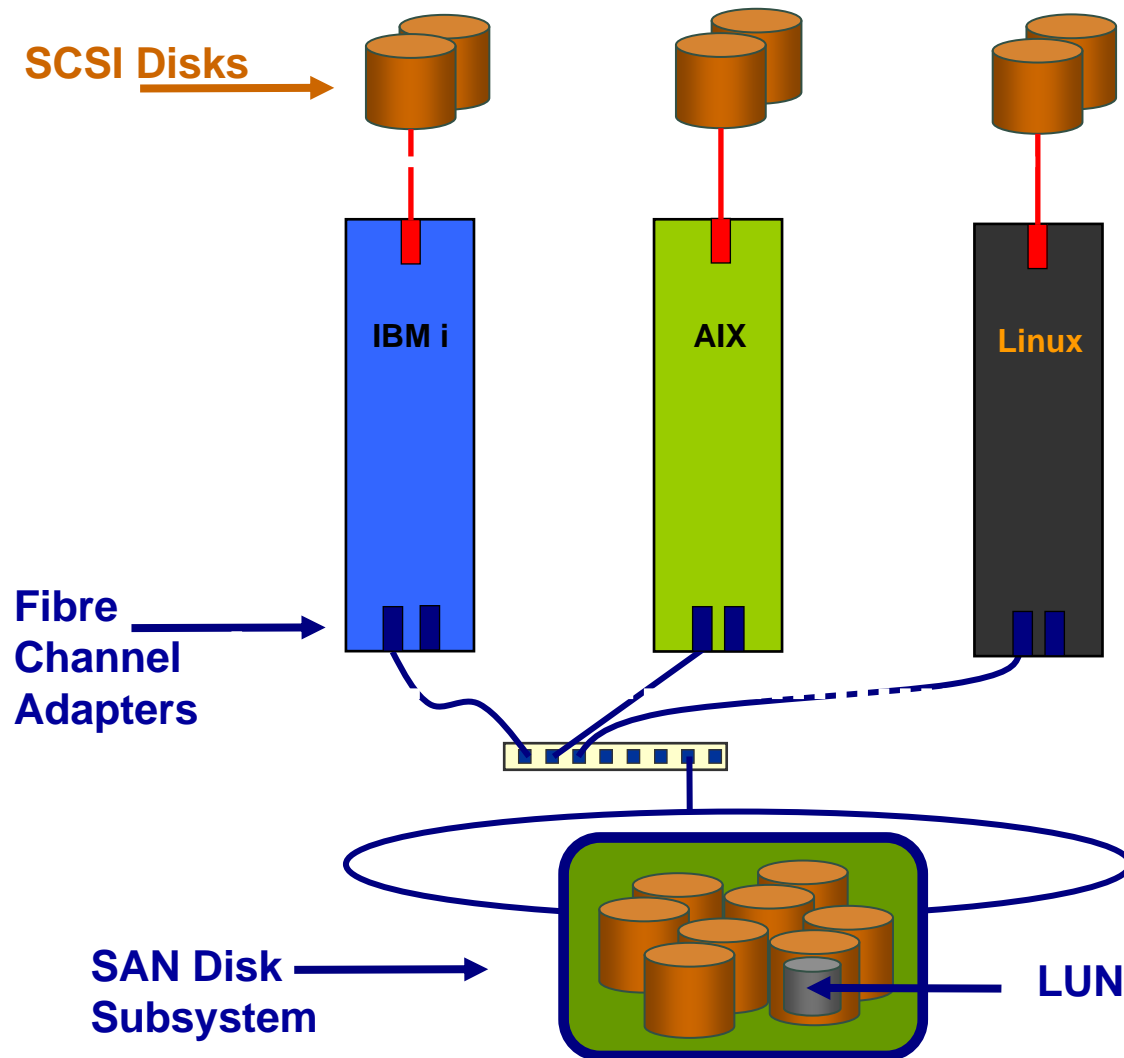
逻辑分区中物理存储的连接



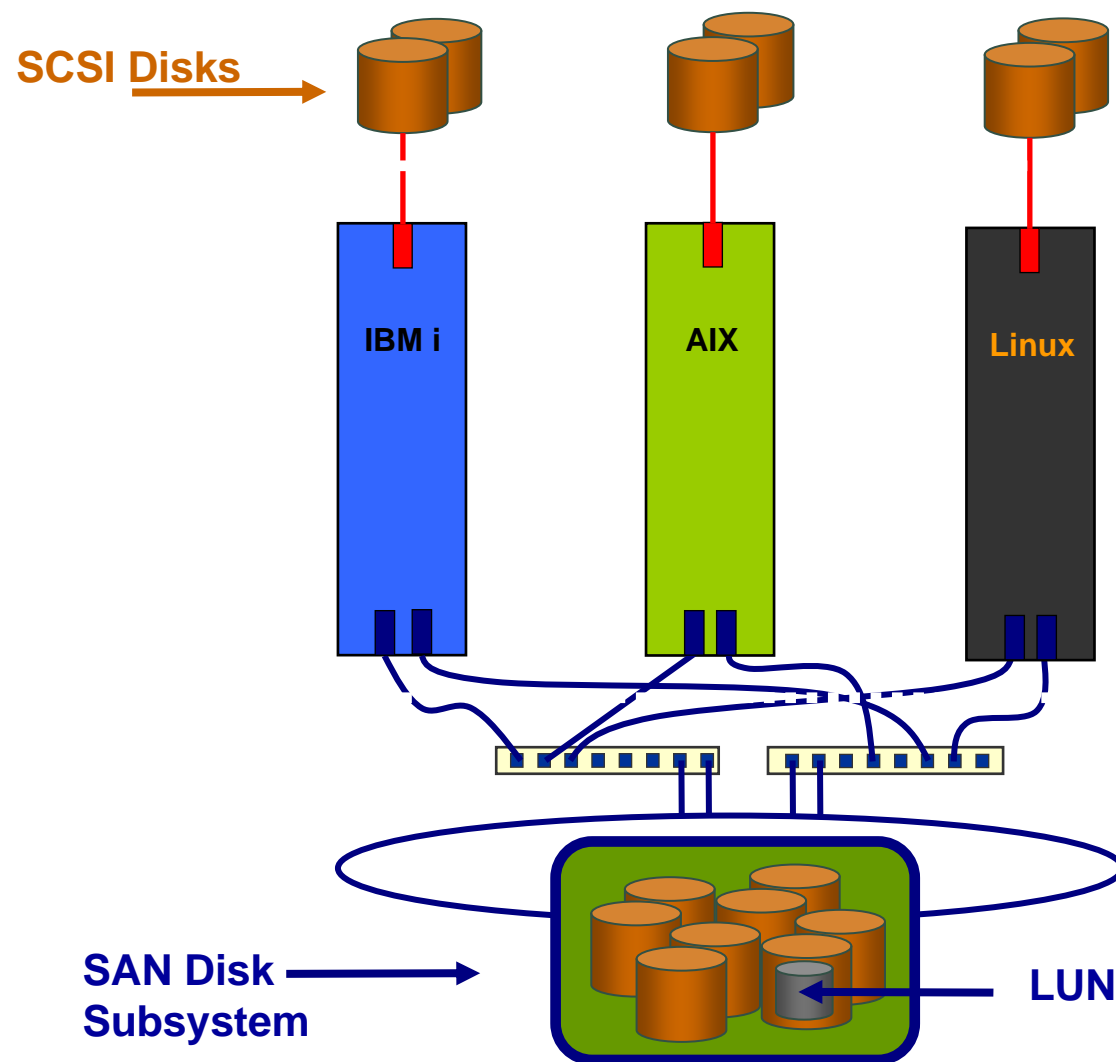
逻辑分区中物理存储的连接



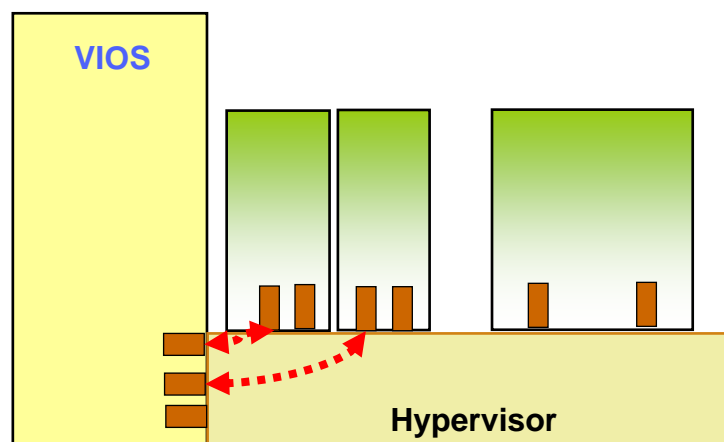
逻辑分区中物理存储的连接



逻辑分区中物理存储的连接



逻辑分区中的虚拟磁盘



逻辑分区中的虚拟磁盘

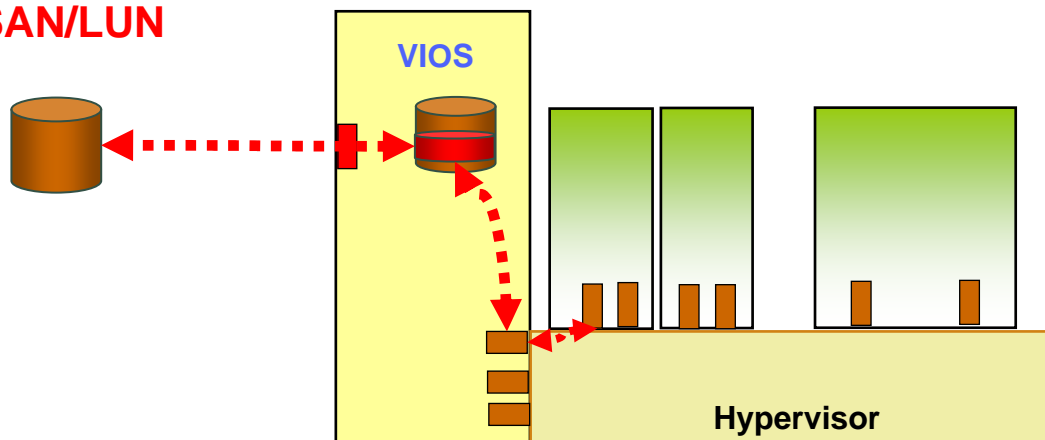


Any Disk type:

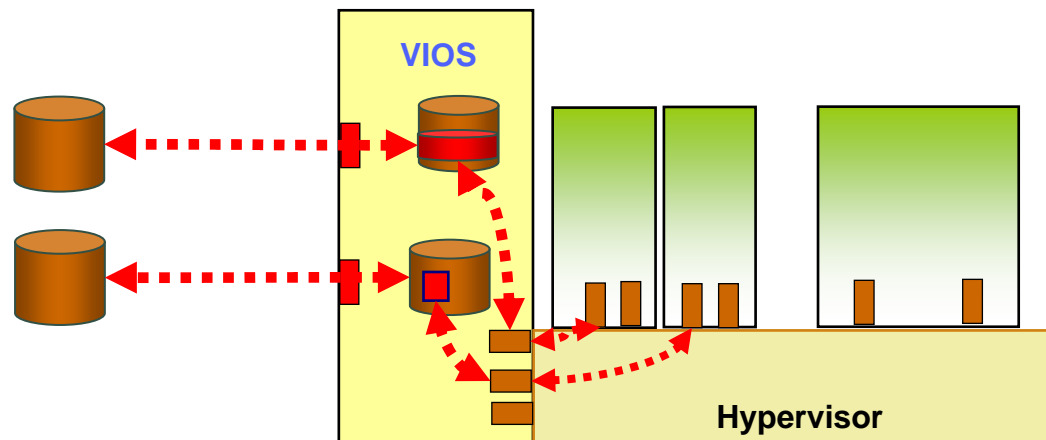
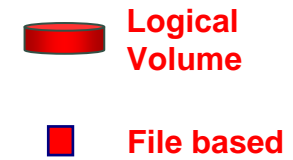
SCSI

SATA

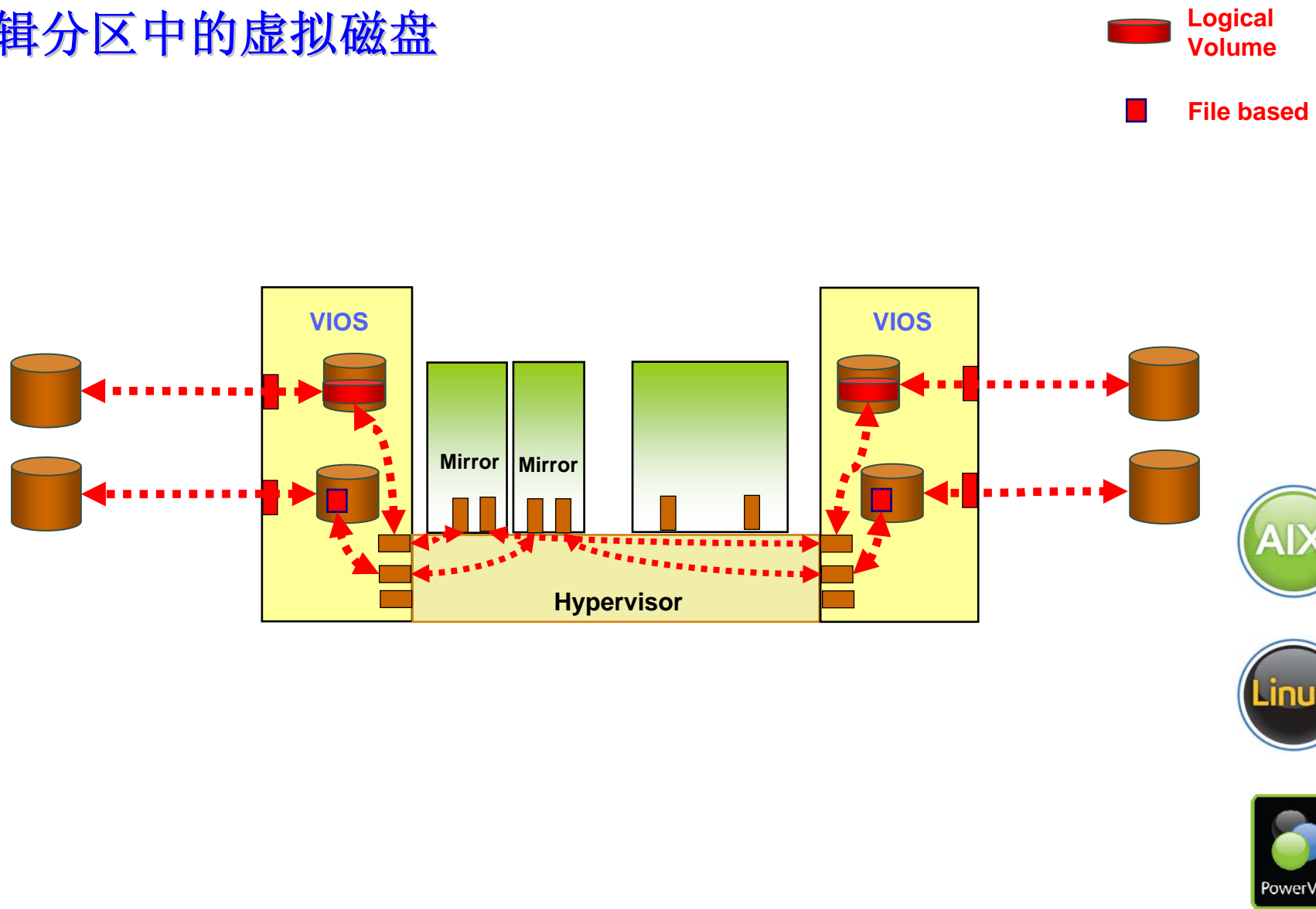
SAN/LUN



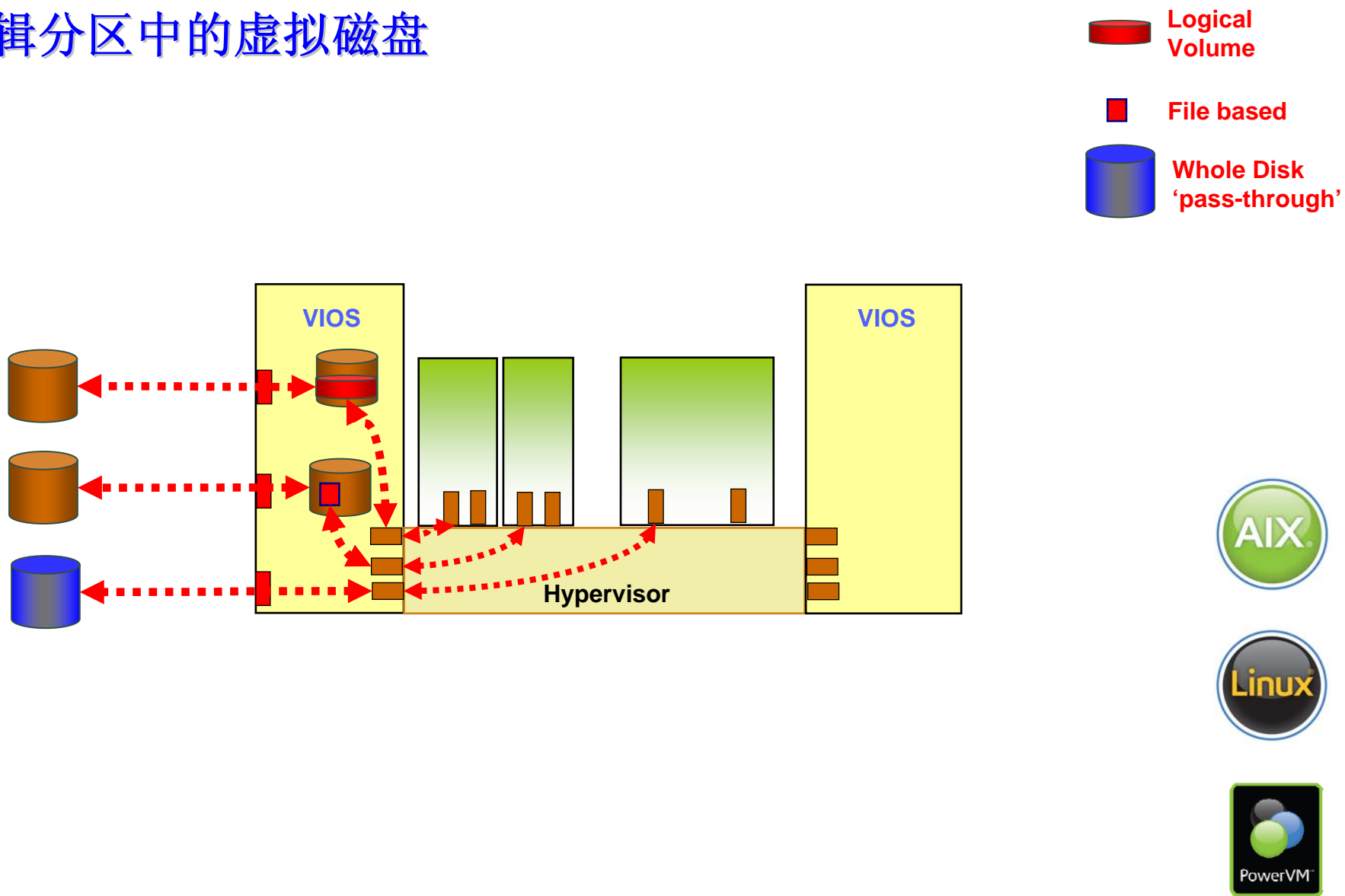
逻辑分区中的虚拟磁盘



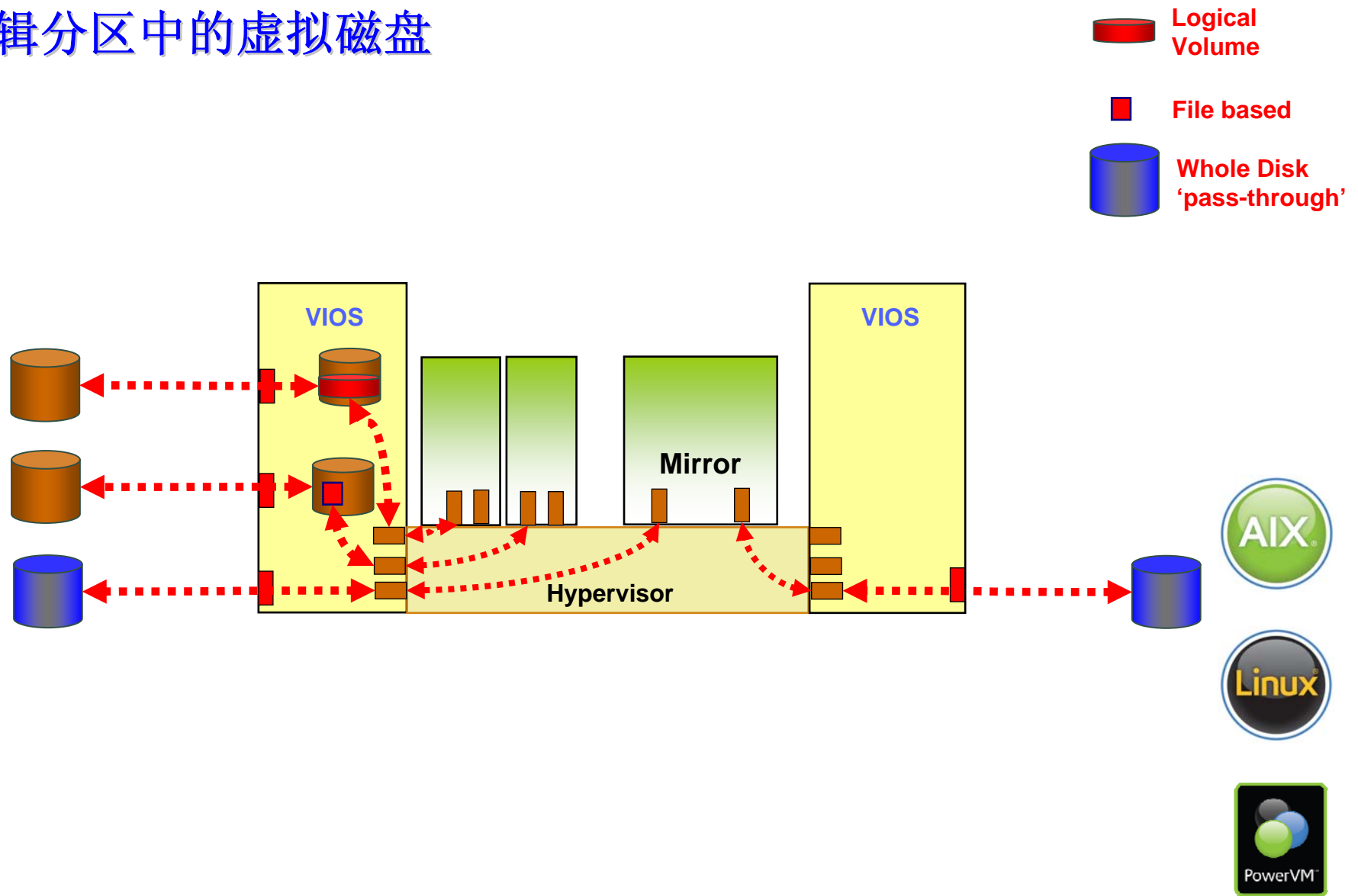
逻辑分区中的虚拟磁盘



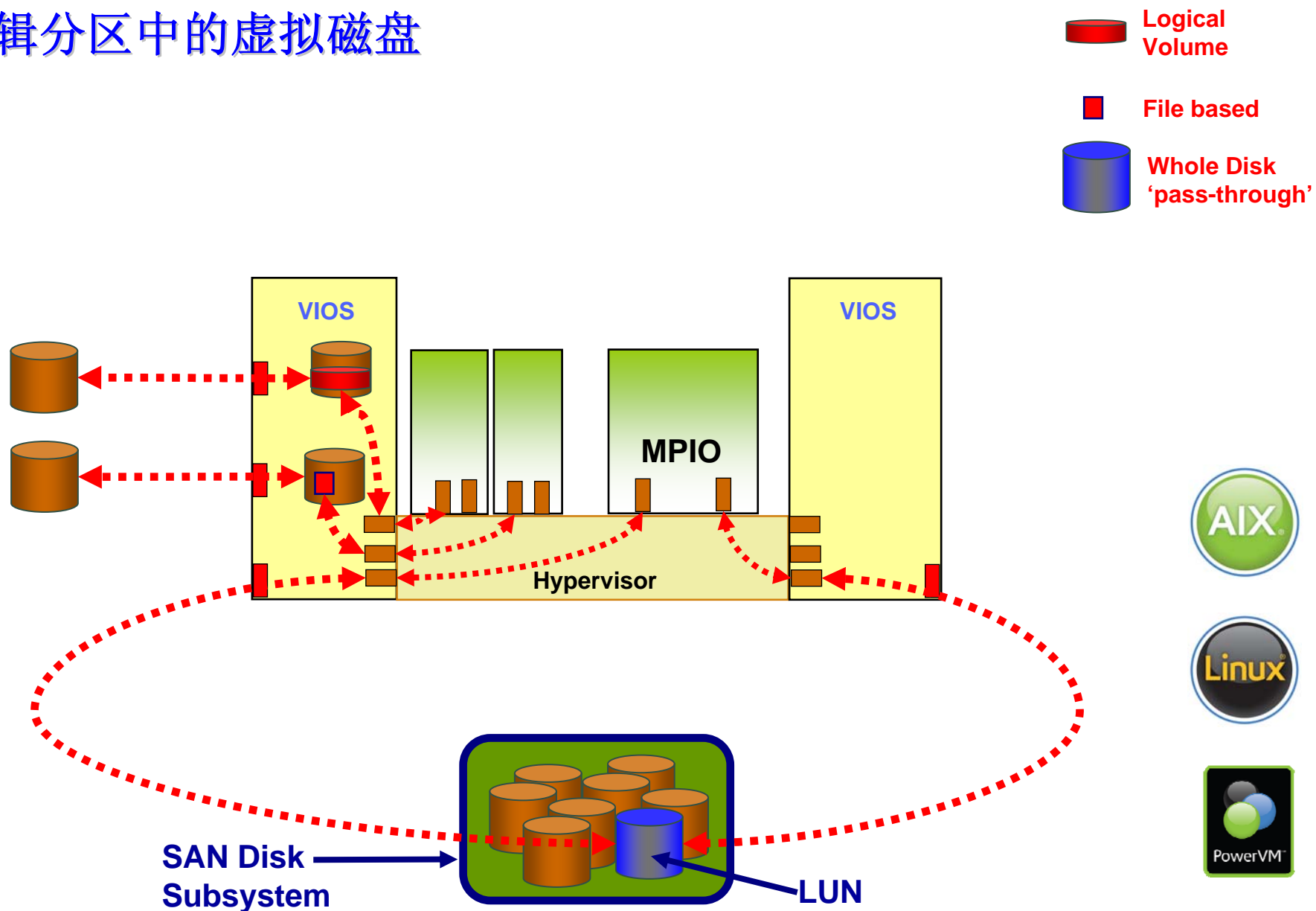
逻辑分区中的虚拟磁盘



逻辑分区中的虚拟磁盘



逻辑分区中的虚拟磁盘



逻辑分区中的虚拟磁盘 小结

