

Chelsio Virtual Multi-Port Software

Virtually consolidate multiple 1G links over single 10GbE adapter

Virtualize ♦ Consolidate ♦ Accelerate

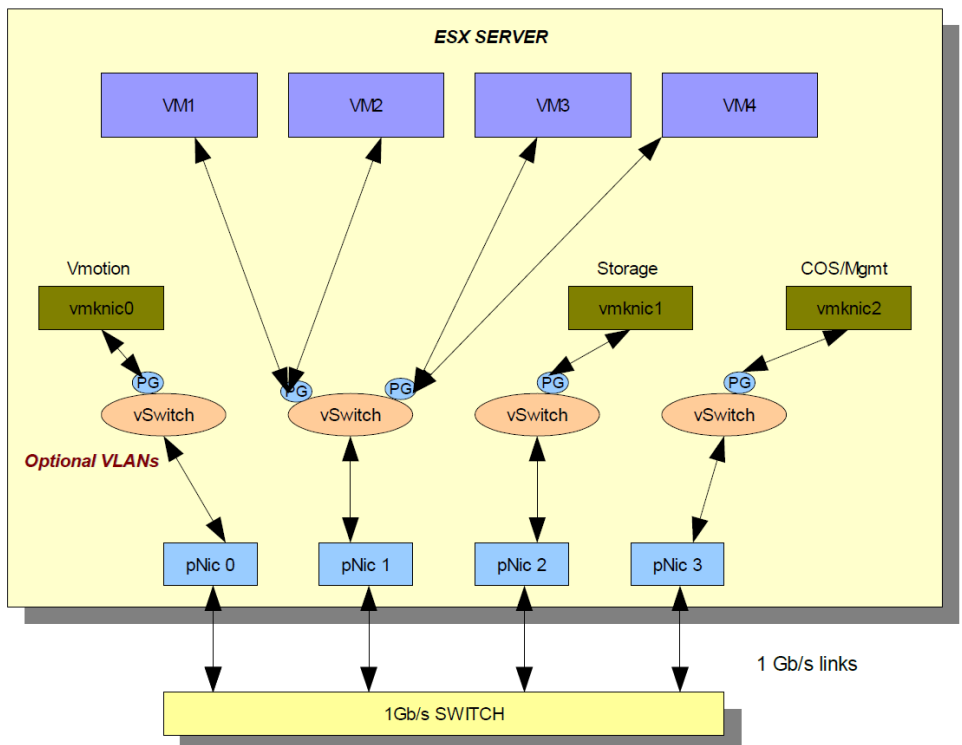
Highlights

- Offload hypervisor tasks
- Easy migration to 10G Ethernet
- Maintain ESX infrastructure
- Simplified Management
- Reduced cabling
- Improved I/O Performance
- No investment required in future technologies like SR-IOV
- Easy integration path
- Programmable bandwidth across virtual ports
- Traffic shaping for receive and transmit with Chelsio Unified Wire adapters
- One 10G NIC can be utilized as eight ultra low latency virtual NICs

Chelsio's Virtual Multi-Port Software is a solution that provides, users who have deployed VMware ESX 4.0, the flexibility of virtually consolidating their existing 1Gb links over a physical 10Gb Ethernet adapter. This allows for consolidation of networking equipment notably in terms of switch ports and cables by using 10Gb infrastructure while maintaining the existing 1G based ESX setup. Chelsio's software provides this consolidation keeping the infrastructure update transparent to the ESX hypervisor. This software will make the 10G adapter appear to the hypervisor as up to eight virtual adapters. The typical traffic an ESX server generates can be classified in four categories as an example:

- Virtual Machine I/O Traffic
- SAN/NAS Traffic (iSCSI, NFS)
- Vmotion Network Traffic
- Console Management Traffic

Chelsio's software will segregate all of the aforementioned traffic types across the virtual NICs while guaranteeing programmable sustained bandwidth in both transmit and receive directions.

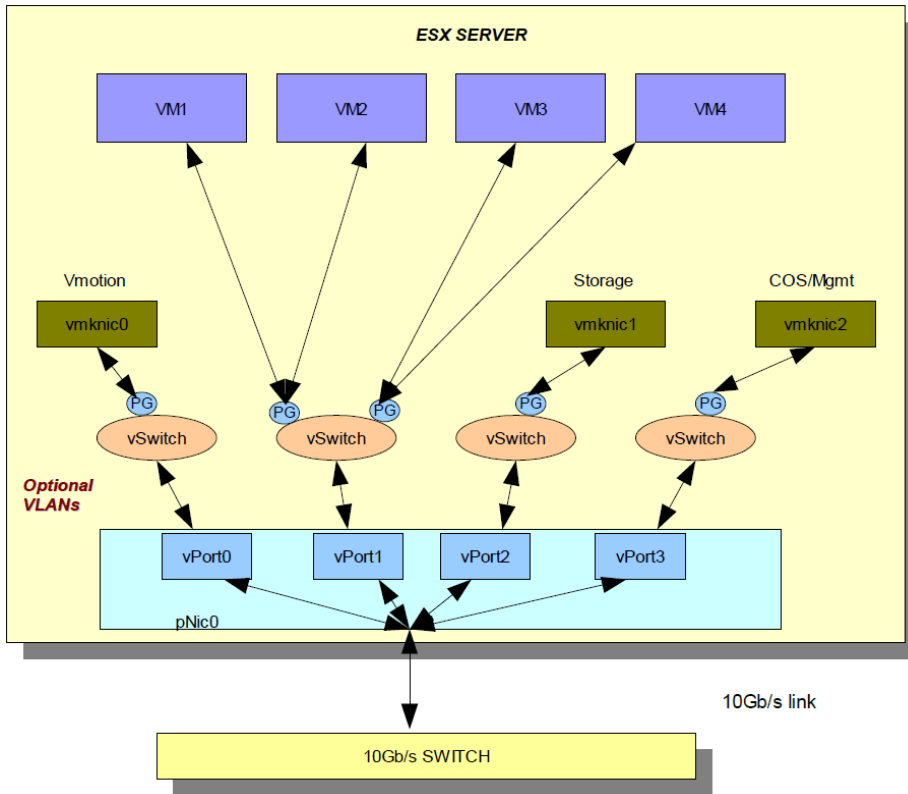


Network design of ESX server with 1G infrastructure

Applications

Link Consolidation

Upgrade a server's multiple Gigabit Ethernet connections to improve bandwidth and simplify cabling



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Network design of ESX server with 10G infrastructure

Chelsio's solution has the following advantages

- Guaranteed traffic segregation
- Guaranteed net rate limiting
- Reduced latency
- Non intrusive implementation in the certified ESX4.0 driver

The following Chelsio adapters are certified by VMware

- N310E
- N310E-CXA
- N320E
- N320E-CXA
- S310E-CR
- S310E-CXA
- S320E-CR
- S320E-CXA
- S320EM-BS
- S320EM-BCH