



vSphere Troubleshooting
vThoughts Storage

General Thought Process

- Baseline Trend Metrics over time
 - Capacity
 - Latency
 - Connectivity
- Function
 - Physical
 - Virtual

- File system
 - VMFS
 - iSCSI
 - FC
 - NFS
 - VSAN
 - VMFS
 - Sparse

- Performance
 - Physical Command Latency
 - Virtual Command Latency
 - Queue Command Latency

- Fibre Channel
 - Rescan
 - WWN Zoning to array
 - Storage Paths to array
 - Satus
 - Path Selection Policy
 - Fixed
 - MRU
 - Round Robin
 - Claim Rules
 - Disks per LUN equal.

Connectivity

- NFS
 - VMkernel Port Configuration
 - Firewall Config for NFS ports
 - ESXi Firewall setting
 - Between devices
 - Jumbo frames MTU
 - NFS Access List
 - Permissions
 - V4 or V3 Not both
 - NIC Teaming

- iSCSI
 - iSCSI Adaptor
 - User ID
 - Shared Secret
 - Virtual
 - Rescan
 - vmKernel port
 - Binding
 - Physical
 - Jumbo Frames MTU Size
 - Connectivity
 - IP Configuration
 - Firewall config for port 3260
 - vmkping
 - nc - z 3260
 - Timeout
 - NIC Teaming
 - MultiPathing Policy
 - QueueDepth

VSAN

- HCL Support
- VMkernel Port
- Multicast
- Licence Status
- Disk Marking
 - SSD
 - Magnetic
- Claim Rule Status
 - Auto
 - Manual
- VM Policy
- Performance
 - Health Plugin
 - Observer
 - physical interfaces