

VSAN 6.6 Feature Update vThoughts

Maintenance

- Bootstrap vCSA
- Enhanced Healthcheck
 - Silence alerts
 - Firmware alerts
 - verbose mode
- Configuration Assist
 - Precheck
 - Guided install
 - HCL updates
- Upgrade disk controller from UI
 - Supported by 3rd party
- Healthchecking
 - Encryption
 - Hardware
 - KMS health
 - Cloud Analytics
 - Web access
 - KB verification
- Throttle resync traffic
- Maintenance what if
 - Disk group decommission
 - Policy impact to updates
 - Change disk claim rules
- Host client Usage
 - Health checks review
 - Disable / Enable deduplication
- Degraded device handling
 - Predictive failure of device
 - Performance / write latency
- Understand appropriate behavior to remove
 - Auto re-mount
 - 5 minute sample / 3 fails
 - SMART Log
 - Keep running to evacuate
 - Partial rebuild

Performance Enhancements

- 50% performance increase
- Write buffer log compacting
- Checksum more efficient
- Pre-emptive
 - Delete
 - Destage

VM Encryption

- Seamless vSphere encryption
- Deduplication intergration
 - Unencrypted then deduped
- Cache layer
 - Encrypted
- Requires an external key management server
 - Trust
 - Key management
 - Internal
 - External based
- Cluster based setting
 - Ensure disks before used
 - Allow reduced redundancy
 - ALL disks reformatted
- Esxcli vSAN storage list
 - Encryption true
- Impact to deployment
- Insufficient data space

Unicast Mode

- Metadata
- Host participants
- vSAN 6.6 only
- vCenter information used
 - Host aware information for cluster partners
 - Rogue host awareness

Stretched cluster

- Local site protection
- Cross site protection
- Fault domains
- Policy change
 - Cross Primary
 - Local Secondary
 - RAID 5
 - RAID 6
 - RAID 1
 - Ensure Coding
- Data affinity
 - Dev in one site
 - Application based replication
 - Data loss in event of site failure
 - Flexible
 - Must rule
 - Consider DRS rules
- witness host replacement