VMware vSphere on NetApp (VVNA)

Module 1: ONTAP Review and What's New

- New supported Hardware
- Efficiency Enhancements
- Performance Enhancements
- Networking Enhancements
- Data Protection Enhancements
- Management Tools

Module 2: VMware Review and What's New

- New vCSA, HTML5 "complete"
- ESXi HTML5 host client
- Virtual HW improvements
- VMFS improvements
- VVol improvements

Module 3: NetApp Tools for VMware

- Native VAAI support in ONTAP
- Native UNMAP support in ONTAP
- System Manager AppDM
- VSC
- VASA Provider (for VVols)
- SRA for SRM
- SnapCenter Plugin
- OCI
- RBAC User Creator

Module 4: NAS Datastores, Classic: Networking & NFS

- Networking Best Practices
- vSphere Networking
- NFS datastores, advantages, prerequisites and how to provision them
- NFS 4.1 cautions

Module 5: SAN Datastores, Classic: VMFS

- VMFS datastores, capabilities and limitations
- FC datastores, networking considerations, FCoE
- iSCSI datastores, networking considerations

Module 6: Datastores, Modern: SPBM & VVols

- Storage Policy Based Management (SPBM)
- VASA Provider
- VVol datastores, capabilities and limitations, management

Module 7: Data Storage for VM Guests

- (Mis-)Alignment
- RDMs, advantages and limitations
- NFS Exports

- SMB shares
- FC LUNs (In-Guest)
- iSCSI LUNs (In-Guest iSCSI)
    - SCSI timeouts
    - BP for MS-Cluster

Module 8: Data Availability, VMware

- VMware RBAC
- High Availability
- Resource Management, DRS
- VMware HA
- VMware FT
- VM Guest Cluster
- Network Contention, NIOC
- Datastore Contention, SDRS

Module 9: NetApp Data Availability

- Security, RBAC, Administration Delegation
- Networking, QoS, A-QoS
- Storage: RAID, HA-pairs, MetroCluster (FC, IP, SDS)
- vSphere Metro Storage Cluster