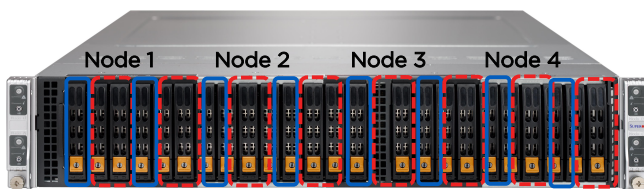# Western Digital.

**SUPERMICRO®**

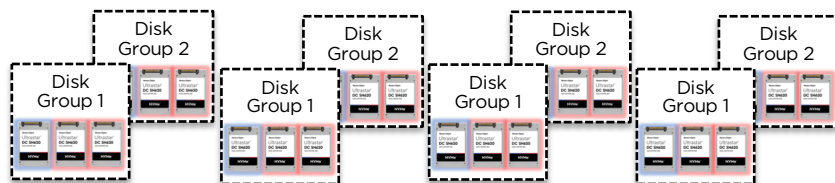# Supermicro® All-Flash VMware vSAN™ with Western Digital Storage

## High performance All-NVMe™ All-Flash vSAN Solution for All Workloads

VM   VM   VM   VM
VM   VM   VM   VM

**VMware vSphere® 6.5 U1 and VMware vSAN™ 6.6.1**

Node 1   Node 2   Node 3   Node 4

**BigTwin™ SYS-2029BT-HNR**

Disk Group 2   Disk Group 2   Disk Group 2   Disk Group 2
Disk Group 1   Disk Group 1   Disk Group 1   Disk Group 1

**Caching Tier:** Writes Cache First
Ultrastar DC SN620
NVMe PCIe U.2 SSD
1.6TB  >1 DW/D

**Capacity Tier:** Reads go directly to Capacity Tier
Ultrastar DC SN620
NVMe PCIe U.2 SSD
3.84TB <1 DW/D

## Server Platform

- 4 Dual Processor nodes
  - Intel® Xeon® Gold 6150s
  - (48) 32GB for 1536GB Total
  - ConnectX-4 EN based Advanced Dual Port 25GbE
  - SanDisk® 512GB M.2 SSD

- 2 Disk Groups per node (1:2)
  - Caching: One 1.6TB* >1 DW/D Ultrastar® NVMe PCIe U.2 SSD
  - Capacity: Two 3.84TB <1 DW/D Ultrastar NVMe PCIe U.2 SSD

## VM Configuration
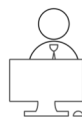
- 2-8 VMs per host
- 8-32 VMDKs per VM

## Software

- VMware vSAN™ 6.6.1
- VMware vSphere® 6.5 U1
- VMware vCenter Server® 6.5 U1

## Key Applications

### Virtual Desktops (VDI)
- Low upfront costs based on commodity x86 servers
- Predictably scale compute and storage with growing user counts

### Business-Critical Applications
- All-flash, high-performance/IOPS storage
- Enterprise-class availability with continuous availability

### IT Operations
- Deploy management clusters on simple low TCO infrastructure
- Support IT operations with low-cost simple storage

### Remote IT (ROBO)
- Powerful, simple storage for limited IT staff or expertise
- 4-node configuration for low cost, ROBO solution

**Learn more: www.wdc.com/dc-sn620  and  www.supermicro.com**

* 1TB=1,000GB, 1GB=1,000,000,000 bytes. Actual usable capacity less.