# Introducing vSAN Express Storage architecture

Adapting to changes in business demands and hardware innovation

### vSAN Original Storage Architecture

# vSAN Express Storage Architecture





### Fast & efficient data path

- New patented log-structured file system A new layer that writes data guickly with minimal overhead
- Optimized data structure and I/O engine stores data and

# **Top Use Case**

- Mission-Critical Applications
- Databases

metadata in an extremely fast and efficient way



### Simplified administration

- Removes the concept of disk groups makes adding and removing or servicing storage devices easy and efficient
- Adaptive RAID-5 policies and native snapshot capability high performance snapshots



#### Ease of management

- vSAN Proactive insights -seamless and fast troubleshooting
- Adaptive network traffic shaping for resynchronizations properly prioritize VM I/O over resynchronization activity

• Online Transaction Processing (OLTP) Edge

## Here's Why:

- High performance from a new data path
- **Space efficient**: get the performance of RAID 1 with RAID 6, plus reduce total storage used with up to 8x data reduction via compression
- All storage devices contribute to performance and capacity so you can get the most out of your investment

\* Compared to vSAN OSA

\* Based on VMware internal performance benchmarks, Aug 2022

