vmware by Broadcom

Why Customers Choose VMware vSAN

vSAN delivers a cloud operational model and best-in-class storage experience for VMware Cloud Foundation.

VMware vSAN™, the hyperconverged storage component of VMware Cloud Foundation and VMware vSphere Foundation, delivers a highly performant storage platform for all workloads, accelerates operations and reduces storage total cost of ownership. It provides secure and resilient storage with integrated data protection, replication and cybersecure storage with recovery. Finally, it delivers unparalleled flexibility to start small for edge deployments and scale rapidly to petabytes of capacity for the most data-intensive applications.

A single storage control plane for all applications

Start small with 3 nodes and grow rapidly to petabyte-scale

Run vSAN with VCF in the cloud with all hyperscalers and 100s of regional providers

Centrally manage remote deployments from the core data center

Fully integrated with VMware Cloud Foundation and vSphere Foundation

VMware Cloud Foundation Storage Options

vSAN	vVol 2.0	VMFS on FC	NFS	
✓				Provides a Full SDDC Solution
✓	✓			Storage Policy Based Management
✓	✓		✓	Automated Deployment and Scale
✓				Automated LCM, Patching and Upgrades
✓				Stretched Clusters
✓	✓	✓	✓	Remote Clusters
✓				Compute-Only Clusters

Native security for peace of mind

- Software-based, data-at-rest, and in-flight encryption
- Next generation, immutable snapshots with deep snapshot chains and CyberSecure storage
- vSAN-to-vSAN Replication lowers costs and simplifies DR/BC

Scale to meet any need

Scale out, scale up, or add storage-only clusters.

64	8.5	500
Scale up to 64 nodes in a cluster	Scale up to 8.5 Petabytes of storage per cluster	Consolidate up to 500 VMs per node

> *"VMware vSAN has cut our storage management time from 40 to 20 hours per week. Tasks like monitoring, performance tuning, capacity planning, updates, and troubleshooting can now be done remotely, reducing on-premises presence and manual work by 50%."*[2]

Up to 70% Savings in Hardware and Support Costs[1]

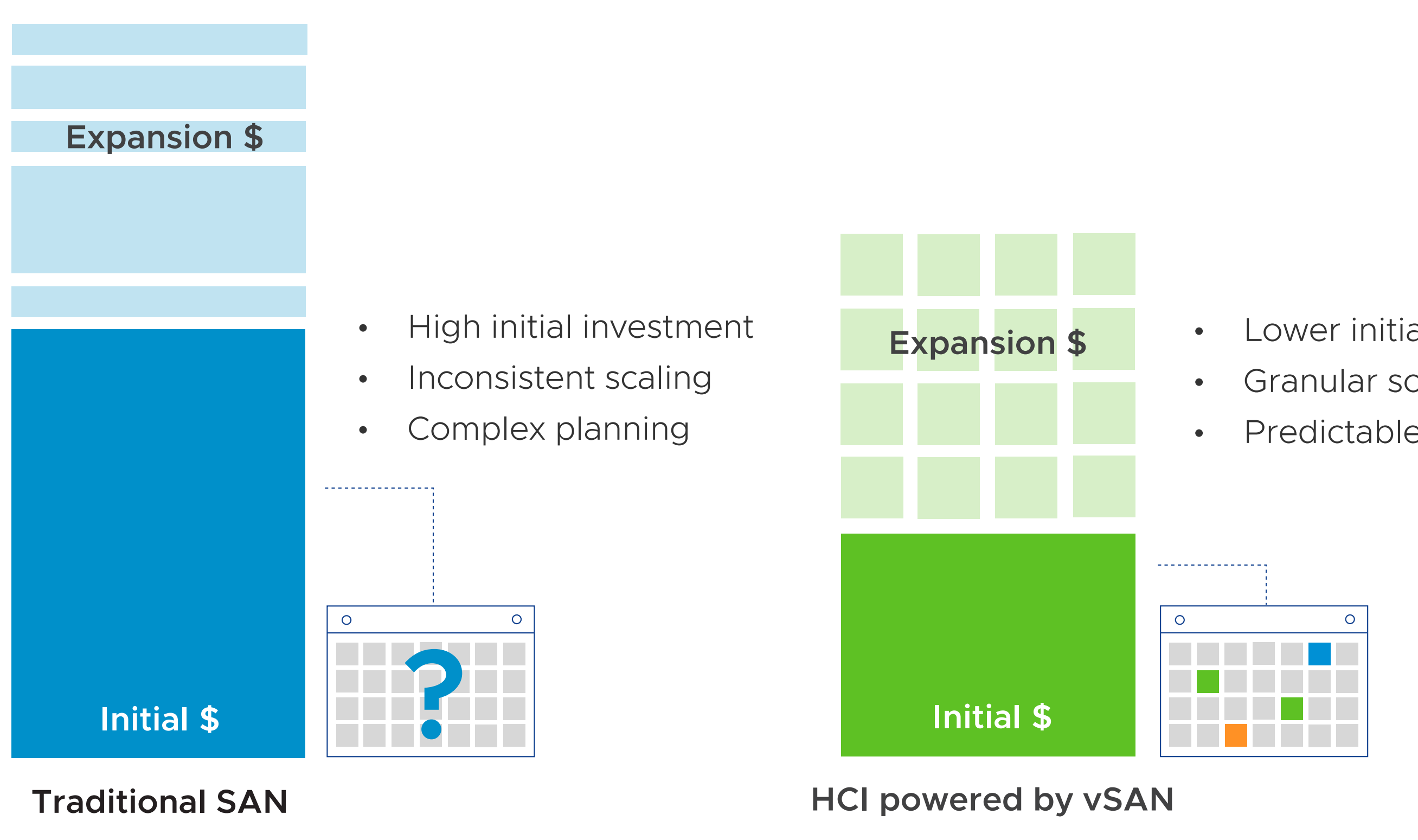
vSAN lowers capital expenses while providing flexibility and choice.

Leverage x86 server economics: reduce capacity and support costs with industry-standard servers

vSAN entitlement is included with VCF (1TiB/core)

Scale up, scale out, or disaggregate with storage-only clusters

> *"For our digital transformation journey, we needed to really optimize our infrastructure, so that's why we moved away from classic storage to the more network-based storage and a more efficient and scalable storage."*[2]



- High initial investment
- Inconsistent scaling
- Complex planning

- Lower initial investment
- Granular scale up and out
- Predictable outcome

Accelerate storage operations

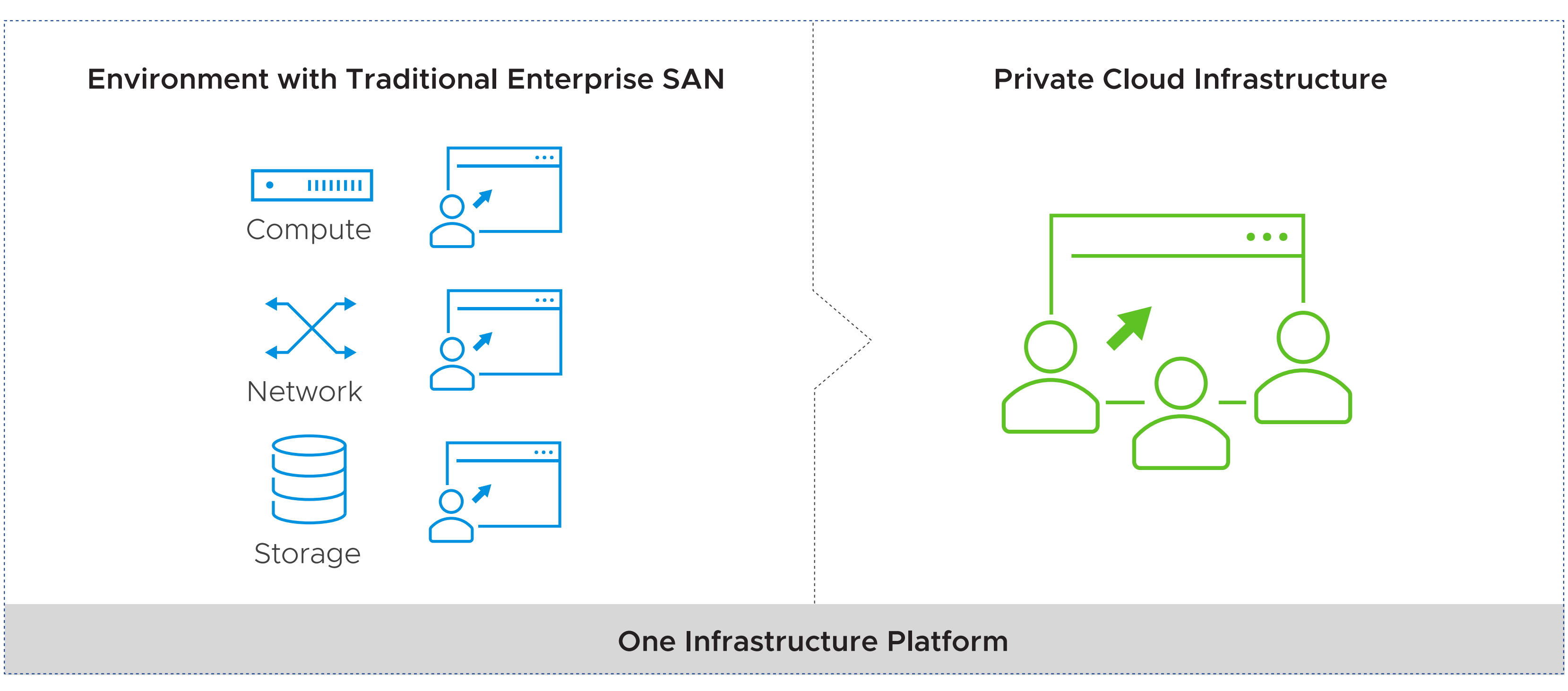
Reduce time spent on routine tasks by **more than 75%** with simplified processes performed by a unified infrastructure team.[1]

Align storage policies with workloads, not with storage hardware constructs

Enable faster delivery of services with reduced staff overhead

Experience a faster learning curve with a familiar and extensible management solution

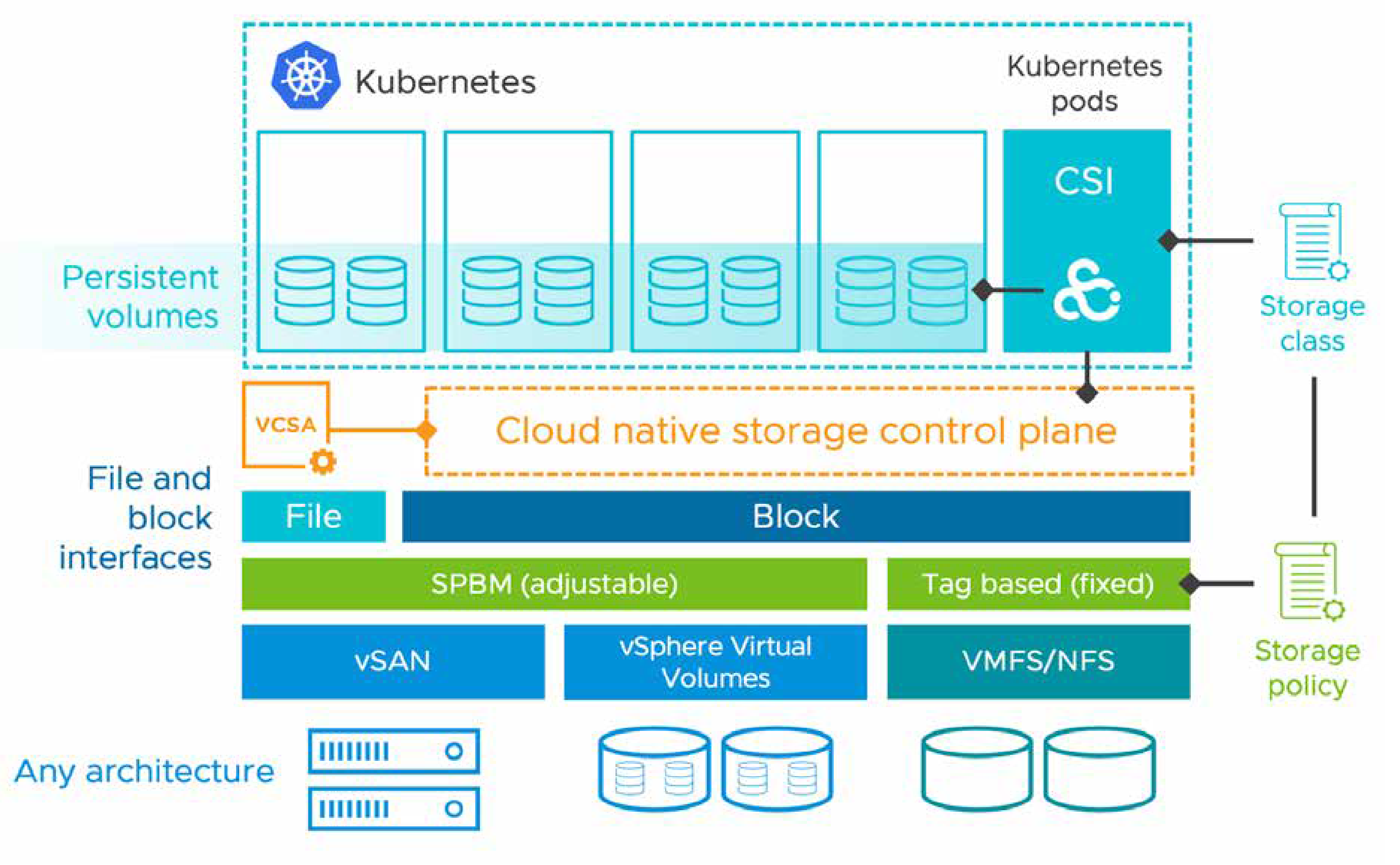
> *"VMware vSAN offers a lower total cost of ownership, not just in terms of money. It reduces support needs by allowing a single team to manage multiple storage assets rather than having separate teams... Additionally, the single console and management layer lowers license costs and makes previously unavailable storage usable."*[2]



Developer-ready

vSAN provides developers the self-service capabilities they need while giving administrators the governance and insights to manage the infrastructure.

1. Manage storage for VMs and containers on a single platform with common storage policies
2. Allow users to dynamically provision and scale persistent volumes for their Kubernetes-based applications via cloud native storage in vSphere
3. Gain integration with a growing list of third-party cloud native applications



> "VMware vSAN Express Storage Architecture means our developers can focus on their work, with storage infrastructure on demand. They can go for it and be creative. This is the chassis for business success."
>
> Rouven Lörche
> Co-Chief Executive Officer and Founder, CID

To learn more about **VMware vSAN,**
visit vmware.com/products/cloud-infrastructure/vsan

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1. Lewis, Mitch. The Economics of Disaggregated Private Cloud Storage. Signal65. July 2024.
2. DC Business Value White Paper, sponsored by VMware by Broadcom. The Business Value of VMware vSAN Storage for Hyperconverged Infrastructure. November 2024. IDC#US5270502

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