



Simple to deploy, effortless to manage, ready for anything

Scale Computing HyperCore™ redefines virtualization with an all-in-one, self-healing platform that’s purpose-built for simplicity, speed, and resilience. No separate hypervisor. No layered storage. No bolt-on backup. Just one lightweight solution that deploys fast, runs anywhere, and keeps your applications online automatically. From edge sites with no IT staff to core data centers running mission-critical workloads, SC//HyperCore delivers the power of enterprise virtualization without the usual overhead.

SIMPLE

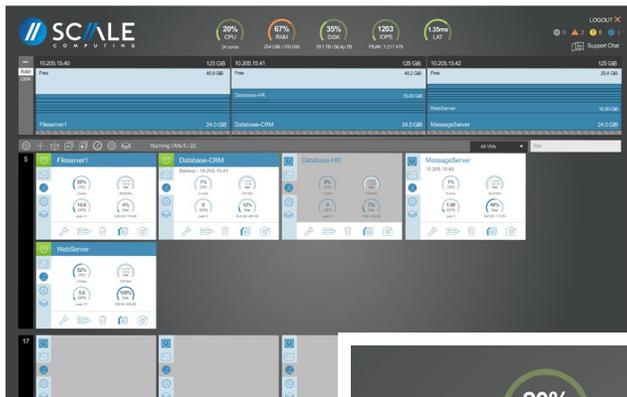
Deploy and manage easily. With the self-healing capabilities and intelligent automation of SC//HyperCore, customers spend less time on infrastructure maintenance and focus on strategic projects to grow their business.

EFFICIENT

Reduce cost and complexity by eliminating separate vendors for hypervisors, storage, and backup. SC//HyperCore’s lightweight, unified architecture delivers high availability and integrated disaster recovery right out of the box.

FUTURE PROOF

Plan the perfect future by not predicting it. Support legacy applications, modern workloads, and edge AI on the same infrastructure. Mix and match hardware as needs evolve, no forklift upgrades, no vendor lock-in. SC//HyperCore adapts as your environment grows.



“Scale Computing HyperCore is unquestionably one of the top solutions for saving time and providing several job benefits. Setting up installation is now quite straightforward, making it much easier for our group to distribute new goods in a timely way.”

- Gartner® Peer Insights



SC//HyperCore heads-up display



Key Benefits

TAKE IT EMERGENCIES OUT OF THE EQUATION

Self-healing technology automatically corrects issues, so you can avoid an IT crisis from occurring at just the wrong time. Keep systems up to date, and repair failures as part of a regularly scheduled maintenance cycle.

REDUCE YOUR FOOTPRINT & TCO

Use fewer resources while cutting major costs. The overall efficiency of SC//HyperCore allows the use of much smaller platforms, while still reserving resources to run user workloads. This provides significant savings when multiplied across hundreds or thousands of edge sites.

NO NEED FOR TRADITIONAL STORAGE MANAGEMENT

Secure your data. Reduce latency while eliminating the need for traditional storage management. The Scale Computing Reliable Independent Block Engine (SCRIBE) combines SC//HyperCore storage drives into a single storage pool, requiring zero user administration, and is available to all nodes of the system without requiring any file systems, protocols, or VSAs.

HIGHLIGHTS

SOFTWARE-DEFINED STORAGE

All components—storage, virtualization, software, and hardware—interface directly through the SC//HyperCore hypervisor and SCRIBE storage layers to create an ideal computing platform that can be deployed anywhere from the data center to the edge of the network.

- Enable configurable SSD priority allocation at the individual virtual disk-level and intelligent data block priority based on block I/O heat mapping
- Discover all block storage devices— including flash-based solid-state disks (SSDs) and conventional spinning disks (SATA or SAS)
- Aggregate block storage devices across all nodes of SC//HyperCore into a single managed pool of storage
- Allow sophisticated data redundancy, load balancing intelligence, and I/O tiered prioritization
- Efficiently use flash storage when available for tiered data placement

SOFTWARE-MANAGED COMPUTE

SC//HyperCore is a lightweight, type 1 (bare metal) hypervisor that is directly integrated into the OS kernel and leverages the virtualization offload capabilities provided by modern CPU architectures. Specifically, SC//HyperCore is based on components of the KVM hypervisor, which has been part of the Linux mainline kernel for many years and has been extensively field-proven in large-scale environments.

- Run VMs on SC//HyperCore to have direct block-level access to the SCRIBE virtual storage device (VSD) virtual disks in the clustered storage pool without the complexity or performance overhead introduced by using remote storage protocols and accessing remote storage over a network
- Allow direct data flow to benefit from zero-copy shared memory performance—unlike other architectures the storage layer runs parallel to the hypervisor, instead of inside a VM as a VSA or controller VM

AI & ADVANCED EDGE WORKLOADS

Deploy and run AI/ML workloads where data is generated to enable real-time decision-making and faster insights. From computer vision for security and quality control to predictive analytics in retail and manufacturing, our solutions deliver the performance, resiliency, and low-latency processing AI demands, without relying on constant cloud connectivity.

- Run advanced inferencing workloads at the edge with supported GPU appliances
- Lightweight, resilient architecture supports AI deployments, even in harsh, space-constrained environments, without requiring onsite staff

SCALABLE, FLEXIBLE ARCHITECTURE

SC//HyperCore is designed to scale as your business grows, without downtime, disruption, or rigid hardware requirements.

- **Mix and Match Nodes.** Hardware appliances of different sizes can be added to and coexist in the same cluster, contributing to the cluster storage pool. Even appliances with dissimilar storage, such as all HDD, hybrid HDD + SSD, or all SSDs, can be combined as a cluster grows. This allows clusters to grow not just linearly, but in whatever way is needed or desired for application workloads.
- **Dynamic Node Lifecycle Management.** Add, replace, or remove nodes without disrupting your workloads. SC//HyperCore automatically redistributes data and maintains fault tolerance behind the scenes, so you can modernize or right-size your infrastructure at your own pace.
- **Non-Disruptive Infrastructure Refresh.** Seamlessly introduce newer, more powerful nodes to the cluster and retire or repurpose older ones, all while keeping virtual machines running.

- **Edge to Core Scalability.** Start with a single node at the edge, scale to eight nodes in the data center, and manage it all the same way. SC//HyperCore supports both the smallest and the most demanding workloads within one unified architecture.

AUTOMATION & INFRASTRUCTURE AS CODE

SC//HyperCore is built for the way modern IT teams work, with automation, consistency, and control across every environment. Whether you're managing one site or a thousand, SC//HyperCore integrates directly into your infrastructure-as-code workflows.

- **Terraform Provider.** Use Terraform to create, power on/off, resize, and delete VMs. Attach or remove virtual disks, configure networking, manage replication, and orchestrate snapshots, all as code.
- **REST API Library.** Tap into a comprehensive library set of REST APIs to automate cluster operations, integrate with existing tools, and build end-to-end workflows across sites.
- **Red Hat Ansible Collection.** Use the certified Red Hat Ansible Collection to deploy and manage SC//HyperCore environments as part of your broader automation strategy.
- **Cloud-Init Support.** Automate VM provisioning by injecting configuration data directly at boot — ideal for remote deployment, onboarding, or edge environments with no manual touch.
- **Containers Support.** To run containers on SC//HyperCore, simply deploy a container-optimized operating system with a container runtime of choice (often Docker, or in a Kubernetes environment, containerd or CRI-O).

Ready to simplify your IT operations and scale with confidence? [Request a demo.](#)

