SANGFOR HCI

Hyper-Converged Infrastructure

SANGFOR

A resilient and effortless cloud foundation built for predictable, continuous evolution.



www.sangfor.com

TRADITIONAL DATA CENTER — CHALLENGES & LIMITATIONS

As organizations embrace digitalization and seek to remain agile, IT departments face growing demands for faster service delivery, greater operational efficiency, and a stable, secure operating environment. Meeting these demands starts with a data center that can support changing business needs and continued growth.

The rise of x86 server virtualization transformed IT service delivery by improving resource utilization and flexibility. However, traditional data centers often continue to manage networking, security, and storage in separate silos, limiting their ability to deliver the full benefits of virtualization.



Where Does Your IT Team Spend Its Time?

Keeping a traditional data center running properly involves complex and tedious work. Deployment, expansion, resource scheduling, upgrades, maintenance, troubleshooting, fault tolerance, and new version releases occupy most of the IT department's time.



Where Does Your IT Budget Go?

In a traditional data center, provisioning new services usually starts with network planning, capacity expansion, and hardware selection. Organizations also plan for the next 3–5 years. As a result, the number and specifications of the devices purchased often far exceed current business needs, requiring substantial upfront investment. Rapid advances in data center technology can also create a need for further investment.



Is Your Current Architecture Scalable?

Launching new business services or expanding a data center often requires additional storage and large-scale data migration. The IT department must then repeat the entire hardware planning and selection process, while also finding the staff needed to set up and maintain the infrastructure.



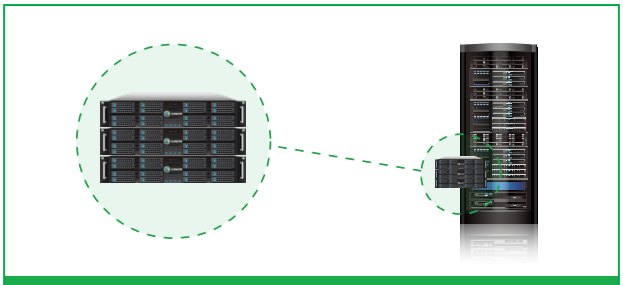
Is Your Data Center Ready for the Cloud Era?

As cloud adoption grows, more organizations are turning to the cloud to address the high costs, inefficiency, and management complexity of physical data centers during business transformation. However, realizing the full benefits of the cloud takes more than a simple transition. Your IT architecture needs to be simplified and automated.

Sangfor HCI Solution



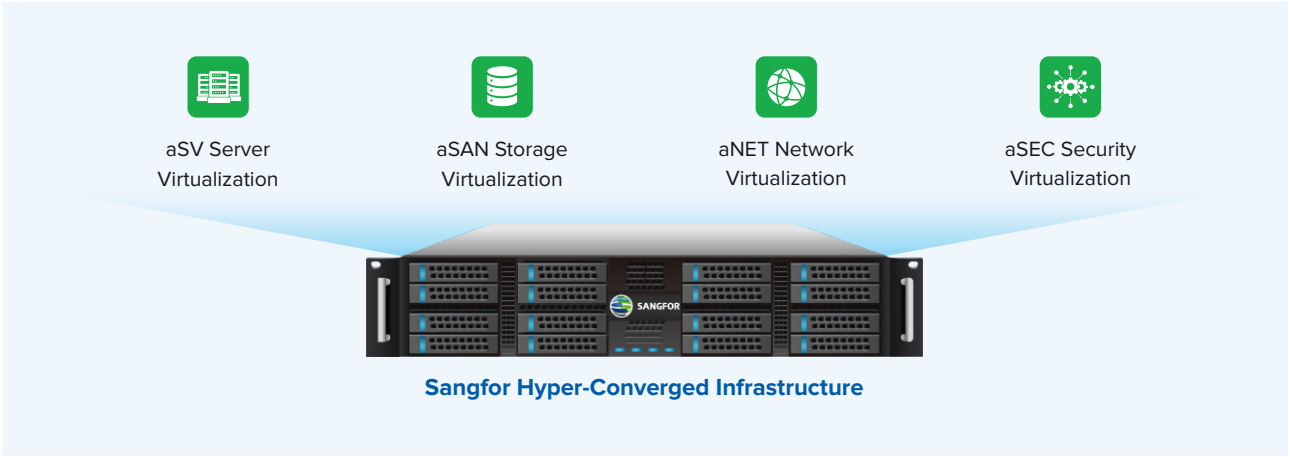
Traditional Data Center



Data Center with Sangfor HCI



Sangfor HCI at a Glance



Sangfor Hyper-Converged Infrastructure

Consolidate 4 Components into 1
A Single User Interface for Managing All IT Resources

Sangfor Hyper-Converged Infrastructure (HCI) provides an innovative 3rd-generation cloud computing architecture that reduces TCO by at least 70%, simplifies operations, and strengthens network security. It converges compute, storage, networking, and security into a single software stack. Its foundation consists of server virtualization (aSV), storage virtualization (aSAN), and network virtualization (aNET). Security virtualization (aSEC) adds a built-in cloud security center that provides comprehensive protection through integration with Sangfor security solutions such as vNGFW and Endpoint Protection(EPP).

Highlights of Sangfor HCI

1. Reliable and Stable

Support 24/7 operation of core business services

- Industry-leading hardware and software health checks and assessments of suboptimal health conditions
- Comprehensive disaster recovery solutions (aDR, Stretched Cluster, Metro Storage Cluster, Storage Array-based Replication)
- AI-based intelligent dynamic scheduling strategy mechanism with DRS 2.0
- Native & proactive HA 2.0
- Integrated backup & CDP, and agentless backup with Veeam & Veritas NetBackup

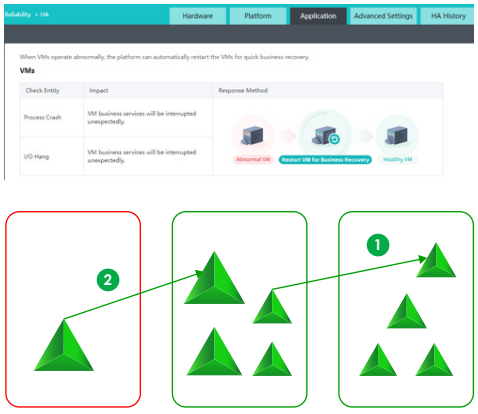


HA 2.0

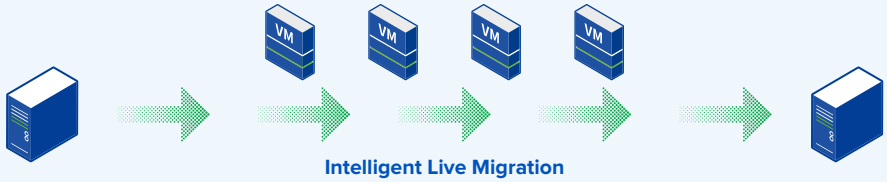
- ✓ More comprehensive detection dimensions
- ✓ More proactive response actions
- ✓ More intelligent scheduling methods
- ✓ More visualized operation and maintenance records

Anomaly	Impact	Response
Low CPU microcode version	Host is at risk of failure	Intelligent live migration
Persistent CPU overheating	Host is at risk of failure	Intelligent live migration
Memory ECC errors	Available memory resource decrease	Intelligent live migration
OS disk lifespan ends	May lead to host going offline	Intelligent live migration
Only 1 power module remaining	May lead to host going offline	Intelligent live migration

Proactively handles suboptimal health states through detection instead of passively migrating when failures occur



Intelligently predicts and reallocates host resources based on resource demands instead of experiencing direct HA failures



Intelligent Live Migration

2. High Performance

1 million IOPS with just 3 nodes

- Leading CPU scheduling algorithms maximize CPU utilization
- Advanced memory tiering technology
- High-efficiency bitmap and compression technologies
- Data striping and SSD caching and tiering



90% Memory Cost Down
DRAM: NVMe up to 1:1

Only supported on ***Sangfor HCI*** and VMware vSphere 9

BEST CHOICE

TRADITIONAL SOLUTION FOR 2 TB MEMORY (32*64GB RAM)	VS	SANGFOR MEMORY TIERING SOLUTION (16*64GB RAM + 1* 1TB NVMe Disk)
3000 USD* 32 = 96,000 USD	RAM COSTS	3000 USD* 16 = 48,000 USD
0 USD	NVME COSTS	1600USD*1 = 1600 USD
96,000 USD	TCO	**49,600USD**

1. Pricing is derived from Amazon's average rates and is provided for reference purposes only.
2. VM-level enablement is supported and is suitable for applications that are not sensitive to latency.

3. More Secure Than Ever

One-Stop Cloud + Security Solution

- Built-in cloud security center with an integrated distributed firewall and IPS
- Asset vulnerability identification
- Smart micro-segmentation
- Integration with Sangfor security products
- Security status and traffic visualization





4. Simple & Easy to Use

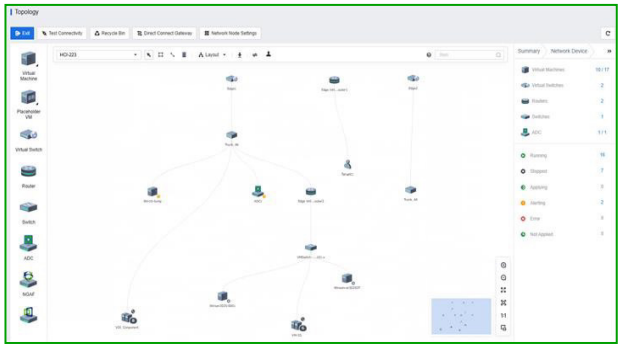
One cloud platform to manage every need

- Full-stack hyperconverged infrastructure that supports the rapid deployment of Kubernetes, databases, AI, and future applications
- Unified management of Sangfor clusters, VMware clusters, bare-metal servers, and AWS virtual machines
- Network orchestration with “What You Draw Is What You Get” technology



- Support for Chinese, English, Spanish, and Japanese to meet local language needs
- Virtual storage clusters start with just two nodes for easy deployment





Values of Sangfor HCI

Reduced TCO



- At least a 70% reduction in overall CAPEX & OPEX compared with a traditional data center.
- Up to a 90% reduction in memory costs, power consumption, cooling requirements, and space requirements.
- Infrastructure deployment cycles are reduced by 80%, and time to market for business services is reduced by 50%.

Business Continuity and Compliance



- Under high-load conditions (90% CPU utilization), VM performance fluctuations remain within 5%.
- In-place live platform upgrades require no VM migration and cause only 3–5 seconds of performance fluctuation.
- HA, Stretched Cluster, and Metro Storage Cluster can achieve an RPO of zero; CDP and aDR can achieve a seconds-level RPO.

Future-Proof Infrastructure



- Start with two nodes and scale linearly according to your needs.
- Continuously adapt to cloud-native environments and evolving AI architectures.
- Upgrade seamlessly on demand to support multi-tenant and hybrid cloud environments.

Business Use Cases

Data Center Consolidation



Getting rid of legacy architecture and complex costly data centers with Sangfor's software-defined HCI technology.

VMware Alternative



Replace VMware infrastructure with a modern platform offering enhanced cost-efficiency, proven stability and VMware-like operational experience.

Data Protection & Disaster Recovery



Business continuity is prioritized with effortless and secure data recovery and disaster recovery options such as snapshot, CDP and stretched cluster.

Cloud Transformation



Deploy the HCI cloud platform engineering for superior and leading virtualization for your enterprise - providing scalability and agility.

Why Sangfor is the Best VMware Alternative

Similar Functionality, Reliability, and Performance

1. 96.5% Matched Capabilities for Sangfor aSV VS VMware vSphere
2. 89% Matched Capabilities for Sangfor aSAN VS VMware vSAN
3. 79% Matched Capabilities for Sangfor aNet VS VMware NSX

Similar Ecosystems, Protecting Existing Investments

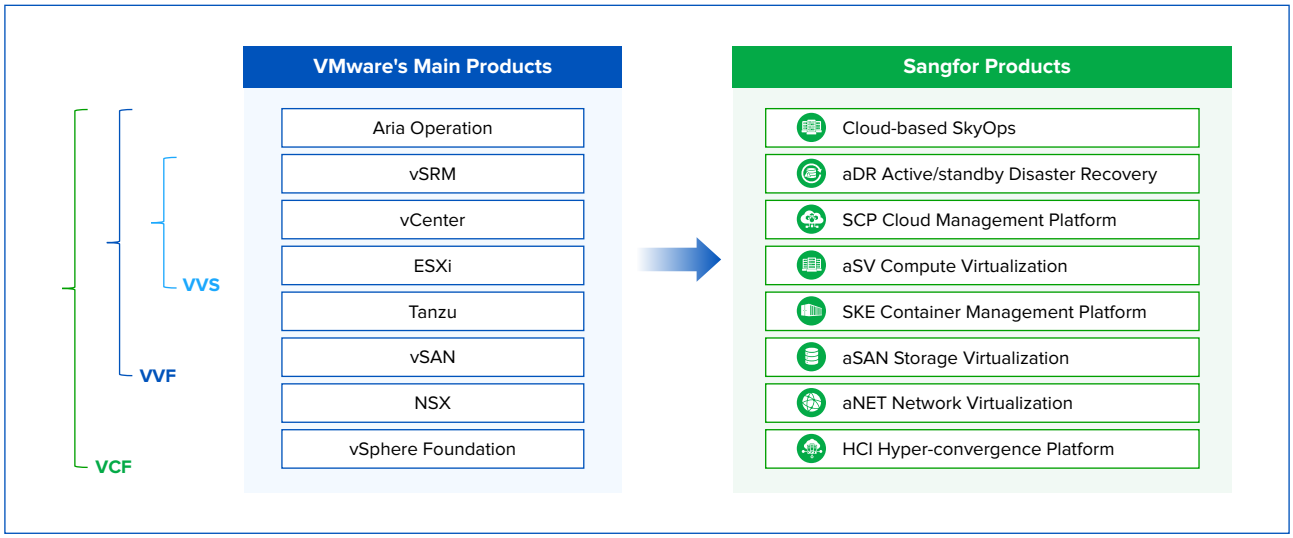
1. Agentless backup with Veeam & Cohesity NetBackup
2. Open APIs enable customers to develop their own solutions
3. Supports Ansible, Terraform, Prometheus, and Zabbix plugins

A Comprehensive Migration Plan with Minimal Downtime

1. Unified management of VMware and Sangfor clusters; Gradual migration of business operations.
2. Pre-migration assessment tool + agent-based/agentless VM migration + quick migration of NSX configurations.
3. Consistent usage conventions for 236 CLI commands compatible with VMware; platform page layout.

Get More

1. Simple architecture leads to lower hardware, licenses, and maintenance costs.
2. Full-stack foundation for tomorrow
3. Faster response, better service



Deployment of Sangfor HCI

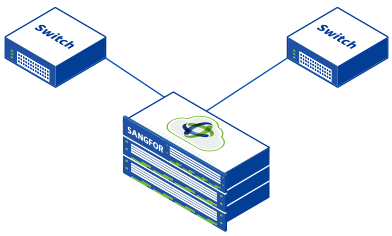
Sangfor HCI supports two deployment models.

The hyper-converged model integrates compute, storage, networking, and security into a single platform, simplifying data center operations and reducing costs. It is suitable for organizations of all sizes.

The 3-tier model separates compute and storage, connecting to external storage through standard protocols such as iSCSI, FC, NFS 3.0, and NVMe over RoCE v2. This approach enables organizations to reuse existing storage, protect their investments, and share storage across infrastructure environments. It suits organizations that require independent scaling of compute and storage, although managing separate components can introduce additional complexity and costs.



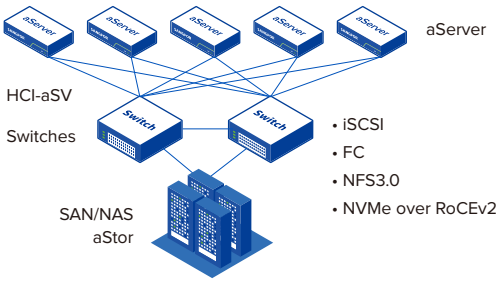
Hyper-Converged Infrastructure



aServer (HCI-aSV+aSAN+aNET)

- Unified resource pool, single vendor solution and support
- Single-pane-of-glass management with intuitive GUI
- Only requires IT generalist for O&M
- Low TCO

3-tier infrastructure



- Available to share storage with other Infrastructure
- Protect existing investments and maintain the current infrastructure
- Multiple vendors' products and support
- Complex O&M with multiple management planes
- Requires professional IT

Deployment of Sangfor HCI

China's Largest HCI Vendor in 2024

in IDC Market Tracker for Software-Defined Storage and Hyperconverged Infrastructure System

CSA STAR Level 1 Certification

Sangfor Cloud Achieves CSA STAR Level 1 Certification

A Representative Vendor in Gartner® Market Guide

for Full-Stack Hyperconverged Infrastructure Software in 2025

A Sample Vendor for Data Center Infrastructure Technologies

in the Gartner Hype Cycle™ for Data Center Infrastructure Technologies, 2025

A Sample Vendor for Storage Technologies

in the Gartner Hype Cycle™ for Storage Technologies, 2025

A Sample Vendor for VMware Alternative

in Gartner's A Guide to Choosing a VMware Alternative in the Wake of Broadcom Acquisition

Gartner® Magic Quadrant™

Recognized as a Visionary in the 2026 Gartner Magic Quadrant™ for Server Virtualization Platforms

Top 5 Largest HCIS Vendor Worldwide by Revenue for 2024

in Gartner® "Market Share: Data Center Hardware Integrated Systems, Worldwide, 1Q25 Update"

"Strong Performer" with 100% Willingness to Recommend

in 2024 Gartner Voice of the Customer for Full-Stack Hyperconverged Infrastructure Software

Sangfor HCI Software Modules

Sangfor offers a software-only HCI solution compatible with most commercially available commodity servers.

The following table lists the software modules and licensing options for Sangfor HCI. In quotations, these modules are offered as bundled licenses.

Licensing Basis	Software Module	Key Features
Per CPU socket	aSV (Server Virtualization)	Compute virtualization, HA 2.0, DRS 2.0, DRX, hot-add resources, backup, cloning, snapshots, and memory tiering
Per CPU socket	aSAN (Storage Virtualization)	Storage virtualization, 2–3 data copies, SSD read and write acceleration, data locality, data striping, and VM-based storage policies
Per CPU socket	aNET (Network Virtualization)	Network virtualization, distributed firewall, drawable topology, network visualization, virtual switches, and virtual routers
Per CPU socket	aSEC (Security Virtualization)	Built-in cloud security center with real-time virus prevention, ransomware prevention, vulnerability detection and remediation, and distributed IPS
Per CPU socket	SCP (Cloud Management)	Cloud management platform, IaaS, IT resource automation, self-service portal, reporting, multi-tenancy, billing, and metering
Per CPU socket	aSC (Stretched Cluster)	Active-active stretched cluster, zero RPO, and cross-site high availability
Per VMware VM	aHM (VMware Backup)	Integration with vCenter for unified management and backup of VMware VMs
Per VM	CDP (Continuous Data Protection)	Near-zero RPO with file-level recovery
Per VM	aDR (Disaster Recovery)	Active-passive disaster recovery between Sangfor HCI environments, with a second-level RPO and one-click failover
Per VM or by capacity	hDR (Heterogeneous DR)	Active-passive disaster recovery between third-party infrastructure and Sangfor HCI, with zero RPO and a minutes-level RTO
Per vCPU	SKE (Kubernetes Engine)	Sangfor Kubernetes Engine for container management and orchestration
Per database instance or per application system	DMP (Database Management Platform)	Database management platform for one-stop SQL database lifecycle management
Per VM to be migrated	SCMT (Migration Tool)	Sangfor Cloud Migration Tool for migration from other cloud platforms to Sangfor

SANGFOR HYPER-CONVERGED INFRASTRUCTURE

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AVAILABLE SOLUTIONS

Athena SWG - Secure Web Gateway
Secure User Internet Access Behaviour

Athena NGFW - Next Generation Firewall
Smarter AI-Powered Perimeter Defence

Athena EPP - Endpoint Protection Platform
The Future of Endpoint Security

Athena NDR - Network Detection and Response
Smart Efficient Detection and Response

Athena XDR - Extended Detection and Response
Revolutionize Your Cyber Defense with Intelligent XDR

Athena MDR - Managed Threat Detection & Response Service
Faster Response Through Human/AI Collaboration

Athena SASE - Secure Access Service Edge
Simple Security for Branches & Remote Users

TIARA - Threat Identification, Analysis and Risk Assessment
Smart Threat Analysis and Assessment

IR - Incident Response
Sangfor Incident Response – One Call Away

HCI - Hyper-Converged Infrastructure
Fully Converge Your Data Center

VDI - aDesk Virtual Desktop Infrastructure
Seamless Experience, Secure and Efficient

VMware Alternative
The Ideal Platform to Streamline Your off-VMware Journey

EDS - Enterprise Distributed Storage
The Only Secured Data Storage You Need

SD-WAN
Boost Your Branch with Sangfor

MCS - Managed Cloud Services
Your Exclusive Digital Infrastructure

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