

SANGFOR HCI

(Hyper-Converged Infrastructure)



SANGFOR

The 3rd Gen HCI, Driving Hyperconvergence
to Fully Converged



www.sangfor.com



Traditional Data Center — Challenges & Limitations

IT is a fast changing industry. With organizations trying to follow the trend of digitalization and stay agile at all time, IT departments are looking at growing and seemingly endless requests for better and faster services delivery, as well as increased efficiency and robust operating environment. The driving force that ensures your business stays ahead and evolves smoothly, is your data center.

The revolution of x86 server virtualization over a decade ago marked the change of IT service delivery. However, the rest of the IT infrastructure in the data center haven't kept up, namely the virtualization of networking, security and storage.



What was the Time Spent On?

The traditional data center is very delicate in many ways, the work it takes to keep it running properly is complex and tedious – deployment, expansion, resource scheduling, upgrade, maintenance, troubleshooting, fault tolerance and release of new versions – these have occupied the majority of time of IT department's daily work.



What was the Money Invested in?

With traditional data center, the provision of new services usually starts with planning and scaling of networking, and hardware selection. Organizations also take into account their overall planning for the next 3-5 years. As a result, the actual quantity of device purchased and model selected shall exceed the current business needs to a great extent, thus leading to a considerable amount of investment in advance. Not to mention the speed data center technology is evolving and the follow-up investment that comes with it.



Is Current Architecture Scalable?

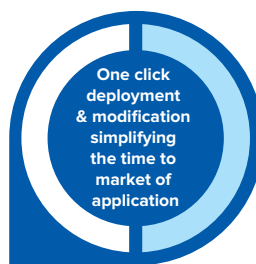
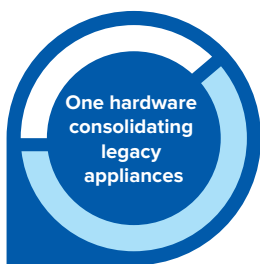
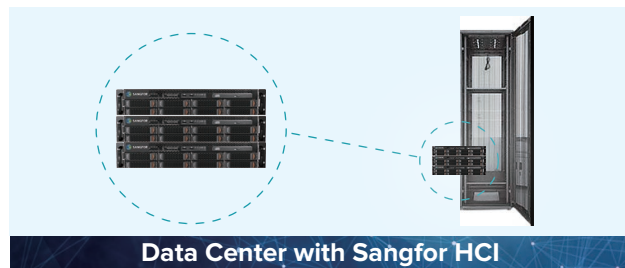
Whenever new business needs to go online or data center needs expansion, it requires supplementary storage and massive data migration; and the IT department have to go over the entire hardware planning/selecting process again. Not to mention the manpower it takes to set it up and keep in running.



Is Your Data Center Cloud Era Compatible?

With the emergence of "The Era of Cloud", increasingly people are resorting to Cloud to deal with the hurdles physical data center brings – namely expensiveness, inefficiency and difficulty to manage – in business transitions. However, it's not the case that you could enjoy the full breadth of benefits that go with cloud at a snap of finger. Easily put your IT architecture needs to be simplified and automated.

Sangfor HCI Solution



Sangfor HCI Solution

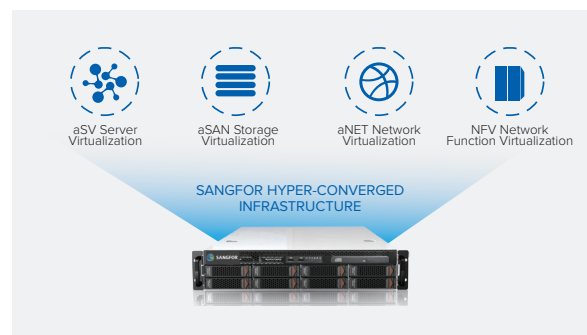
Why Choose Sangfor as Your HCI Solution Provider?

Sangfor has over 20 years' experience in network security and optimization and it has been the only Asian vendor with 6 products (HCI, NGAF, WANO, IAM, AD and SSL VPN) in the Gartner Magic Quadrant. The R&D investment in virtualization started since 2011 and the next year the Virtual Desktop (VDI) has seen successful commercial deployment.

Sangfor HCI at a Glance

5-Tier Architecture Consolidated into 1 1 Single User Interface Managing All IT Resources

Sangfor Hyper-Converged Infrastructure consolidates traditional hardware-appliance-based security, IP network, storage network, server and storage into one tier of commodity hardware (x86 server). The foundation of all these are Server Virtualization (aSV), Storage Virtualization (aSAN) and Network Virtualization (aNET), on top of that we have NFV (Network Function Virtualization) integration including all our network applications such as NGAF/IAM/WANO.





Highlights of Sangfor HCI

aSAN (Storage Virtualization)

2-3 copies of data are stored and data can be written synchronously so as to ensure data consistency. SSD as cache is utilized for higher IOPS. With the patented I/O localization technology, aSAN can detect where VM's data is stored and make it a priority to run the VM on that physical host, dramatically increase IOPS in a clustered environment.

aSV (Hypervisor)

Using distributed resources scheduler, dynamic resources scheduling functions can be achieved by VMP without installing agents.

High Availability

Applications can be restored from networking, host and storage layer in an extremely short time if physical node failed in the cluster.

Integrated Backup and Recovery

Daily incremental backup and hourly snapshot backup with no need of backup software or host.

Ultra-Simplified Operation

1 integrated software stack. Deploy infrastructure to support business in minutes. "What You Draw is What You Get" topology. Very limited manual operation is needed. Virtualized data center displays real-time flow based on ports, uplink and downlink of virtual machine



Reduced TCO & Pay as You Grow

Minimum 70% reduction in overall CapEx & Opex than traditional data center. Up to 90% reduction in power, cooling and space. Start with 1 commodity server and scale linearly according to your need without limits. Shift your focus to business. IT could be a revenue generating department instead of a cost center.

High Performance

1 single server to achieve 10Gbps virtual network throughput, read 60,000+ IOPS, write 17,000+ IOPS and storage capacity 20TB. High stability and reliability ensured by vAD business clustering, HA (High Availability), distributed management platform, distributed virtual networking device, multi-copies, back-up plans etc.

Best NFV Integration

More flexible and scalable network and service provisioning. Virtualized network functions can be easily moved to various locations in the network without having to install new equipment. 3D protection inside-out: Kernel built-in WAF to protect aSV from web threats; distributed firewall to protect east-west traffic and vNGAF to safeguard south-north traffic.

Sangfor HCI

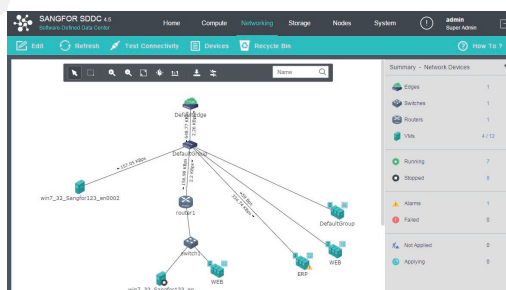


aCloud

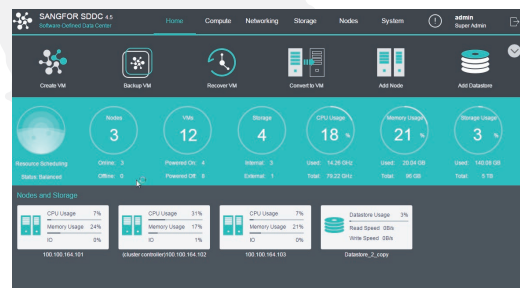
Hybrid Cloud

Transit Smoothly towards Cloud Era

Build Data Center by Simple Drawing



Visualized Data Center





Deployment Scenarios of Sangfor HCI



Server & Storage Virtualization

Think about the workload of running and maintaining various units in a legacy data center; think about the increased investment in data center as business grows; think about the amount of time left for IT to innovate; think about how the legacy data center is going to deal with data explosion and the trend of digitalization. Sangfor HCI can reduce TCO by 70% or more by eliminating IT silos, over-provisioning, and simplifying data center operations.



Test/Development

Test/development environments tend to rely heavily on VMs, yet usually the number of running VMs is limited due to the concern that things might be slowed down by them. With Sangfor HCI that concern can be completely eliminated, as hyper-converged infrastructure is based around real, enterprise-class hardware that is specifically designed for virtualization, it is extremely agile and elastic in handling test/dev workload. Moreover, the test/dev environments created on HCI are completely isolated from the production environment, so that no bad code will ever be released into production.



SME

Due to budget constraints, SMEs sometimes are reluctant to upgrade their IT. Also, they don't think it's worth stopping IT production just for upgrade. The consequence of that kind of mindset is outdated technology, which then leads to frustrated employees with limited IT functionality or even worse, disastrous system breakdown. However, with Sangfor HCI, SMEs can now enjoy continuous technology refresh and implementation of new systems via this on-premise solution that enables cloud-like elasticity, agility and economics with superior performance, reliability and availability.



ROBO (Remote Office Branch Office)

As today's enterprises add additional office locations, they are also adding expensive hardware and support challenges for IT. They lack physical space and power resources that traditional datacenter platforms need, and in most cases there is no qualified IT staff on site to manage servers, storage and backup at the branch. These will all have a negative impact on business productivity and ultimately business results. The implementation of Sangfor HCI can eliminate IT infrastructure cost, complexity and the need for specialized personnel in remote offices, providing them with effortless negative impact on business productivity and ultimately business results. The implementation of Sangfor HCI can eliminate IT infrastructure cost, complexity and the need for specialized personnel in remote offices, providing them with effortless operations and flexible scalability.



COMPANY PROFILE

Sangfor Technologies is a leading global vendor of IT infrastructure solutions, specializing in Cloud Computing & Network Security with a wide range of products & services including: Hyper-Converged Infrastructure, Virtual Desktop Infrastructure, Next Generation Firewall, Internet Access Management, Endpoint Protection, Ransomware Protection, Managed Detection and Response, WAN Optimization, SD-WAN and many others.

Sangfor takes customers' business needs and user experience seriously, placing them at the heart of our corporate strategy. Constant innovation and commitment to creating value for our customers helps them achieve sustainable growth. Established in 2000, Sangfor currently has 6,000+ employees with more than 60 branch offices globally in exciting locations like Hong Kong, Malaysia, Thailand, Indonesia, Singapore, Philippines, Vietnam, Myanmar, Pakistan, UAE, Italy and the USA.

CONTINUOUS INNOVATION & EXCELLENT SERVICE

Sangfor invests at least 20% of its yearly revenue in R&D, improving current products and developing new solutions in their four R&D centers in the USA & China. So far, Sangfor has applied for more than 1,000 patents with more patent applications scheduled for 2020. This dedication to innovation enables Sangfor to release new and updated versions of products every quarter and launch new products yearly or bi-yearly.

Sangfor also emphasizes excellent service. With three Customer Service Centers in Malaysia & China, Sangfor's total customer service capacity exceeds 250 technicians and providers.

With thousands of certified engineers and 24x7 online support 365 days a year, Sangfor customers enjoy fast and personalized on-site service support. At present, Sangfor has more than 100,000 customers worldwide, many of them Fortune 500 companies, governmental institutions, universities and schools.



AWARDS & ACHIEVEMENTS

- "Technology Fast 500 Asia Pacific Region" Award for 8 consecutive years from 2005 to 2012 by Deloitte
- Sangfor SSL VPN No. 1 in Network Security market in China, Hong Kong & Taiwan according to F&S
- No. 1 for Secure Content Management Hardware and VPN Hardware segment in China according to IDC
- Sangfor NGAF WAF recommended by NSS labs (2014)
- "Most Promising Network Security Solution" in June 2016 by Singapore NetworkWorld Asia
- "Readers Choice Awards for Enterprise Security" in October 2016 by Computerworld Malaysia
- Member of various technology alliances including VirusTotal
- "Next Gen" Award for Sangfor Endpoint Secure by Cyber Defense Magazine (2019)
- SAP Certified for Cloud and Infrastructure Operations and SAP HANA Operations (2019)
- ICSA Labs certification for Sangfor Next Generation Firewall (2020)

Gartner Magic Quadrant



SANGFOR HCI (Hyper-Converged Infrastructure)

SANGFOR INTERNATIONAL OFFICES

SANGFOR SINGAPORE

8 Burn Road # 04-09, Trivex,
Singapore (369977)
Tel: (+65) 6276 9133

SANGFOR HONG KONG (CHINA)

Unit 04, 6/F, Greenfield Tower, Concordia Plaza, No.1 Science
Museum Road, Tsim Sha Tsui East, Kowloon, Hong Kong
Tel: (+852) 3427 9160

SANGFOR INDONESIA

MD Place 3rd Floor, Jl Setiabudi No.7, Jakarta Selatan
12910, Indonesia
Tel: (+62) 21 2966 9283

SANGFOR MALAYSIA

No. 47-10 The Boulevard Offices, Mid Valley City, Lingkaran
Syed Putra, 59200 Kuala Lumpur, Malaysia
Tel: (+60) 3 2201 0192

SANGFOR THAILAND

6th Floor, 518/5 Maneeya Center Building, Ploenchit Road,
Lumpini, Patumwan, Bangkok, 10330 Thailand
Tel: (+66) 22517700

SANGFOR PHILIPPINES

7A, OPL Building, 100 Don Carlos Palanca, Legazpi, Makati,
122 Metro, Manila, Philippines.
Tel: +63(0) 9175081244 / +63(0) 9171179346

SANGFOR VIETNAM

OTX2-0327 Sunrise City, 27 Nguyen Huu Tho,
Tan Hung Ward, Dist. 7, HCMC, Vietnam.
Tel: (+84) 28 62700133

SANGFOR SOUTH KOREA

Floor 17, Room 1703, Yuwon bldg. 116, Seosomun-ro,
Jung-gu, Seoul, Republic of Korea
Tel: (+82) 2 6261 0999

SANGFOR EMEA

C-80 (C-Wing), Dubai Silicon Oasis HQ Building, Dubai, UAE
Tel: +971-52-9606471

SANGFOR PAKISTAN

D203, Navy Housing Scheme, ZamZamma, Karachi, Pakistan
Tel: +92 3142288929

SANGFOR ITALY

Sede Legale ed Operativa via E. Berlinguer, 9 20834 Nova
Milanese MB Italia
Tel: +393400616767

SANGFOR USA

46721 Fremont Blvd, Fremont, CA 94538, USA
Tel: +1 (510) 573-0715

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WANO

Enjoy a LAN Speed on your WAN

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VDI

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aBOS

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CM

Centralized Management Platform



www.sangfor.com

Sales : sales@sangfor.com

Marketing : marketing@sangfor.com

Global Service Center : +60 12711 7129 (or 7511)

Our Social Networks :



<https://twitter.com/SANGFOR>



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