



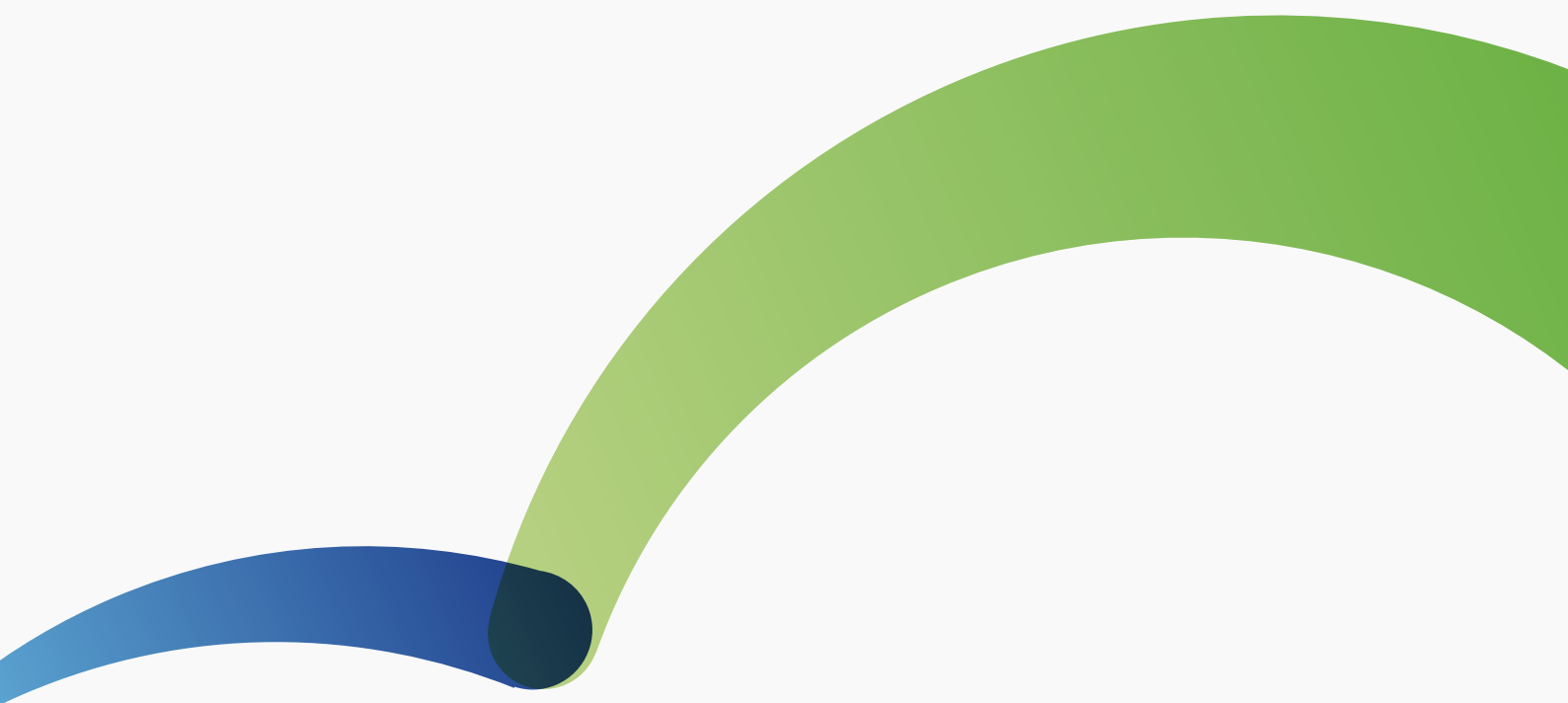
**SANGFOR**



**SANGFOR CLOUD**

# **Capsule Data Center Solution**

**by Sangfor Hyper-Converged Infrastructure**



[www.sangfor.com](http://www.sangfor.com)

## Problems & Challenges Faced by Traditional IT



01

### HIGH INITIAL INVESTMENT

To ensure high availability, a series of expensive hardware equipment needs to be purchased: 20TB external storage, storage switches, security equipment, and high-performance servers with a total investment of more than 40W.

### SLOW FOR BUSINESS TO GO LIVE

The deployment of different devices makes the entire procurement, implementation, inter-connection and configuration extremely complicated, with an average construction period of more than 60 days.

02

## Problems & Challenges Faced by Traditional IT

03

### HEAVY O&M LOAD

Not only do you need to manage the server virtualization platform, but you also need to maintain a large number of basic network devices, network security, storage hardware, and so on.

### COMPLEX EXPANSION

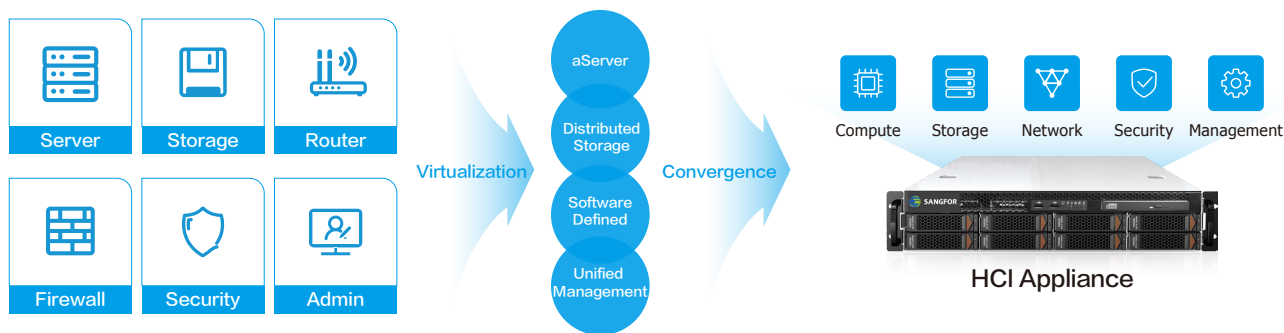
In the face of performance bottlenecks, it is common to purchase "high-performance devices" to replace "original low-performance devices", the input-output ratio is poor, and the application needs to be re-migrated and deployed.

04

## Solution Description



Sangfor HCI Solution is a new IT infrastructure platform based on converged architecture. It integrates industry-leading technologies such as server virtualization, distributed storage and software-defined networking into an X86 server, and realizes IT resources through a unified management platform. Visual management helps users create a new IT infrastructure that is minimal, stable with high-performance. Only 2 servers are required to build a fully functional Software-Defined Data Center.



## Advantages & Values



### SIMPLIFIED

All resource requirements are met with HCI Appliances and switches, and unified visual management is supported.

### STABLE

Fully redundant architecture to ensure business stability,  
No data loss even if hardware fails.



### HIGH PERFORMANCE

A single unit can provide up to 100,000 IOPS and supports linear expansion.  
Performance has no bottlenecks.

## Evolution with No Limitation



|                          | Sangfor (2 nodes)                | VMware ES+   | Nutanix 2-Node Cluster                        |
|--------------------------|----------------------------------|--|---|
| <b>Technical Frame</b>   | SDDC                             | Server Virtualization                              | SDDC  |
| <b>Scalability</b>       | Unlimited                        | Maximum 3 Nodes (6 CPUs)                           | Maximum 2 Nodes                               |
| <b>Backup</b>            | Built-in                         | 3rd-party  | 3rd Party                                     |
| <b>Disaster Recovery</b> | Support All Existing Features    | Do not support SRM, have to buy 3rd party solution | Do not support near sync & metro availability |
| <b>High Availability</b> | Support all features: HA/DRS/DRX | Do not support DRS/DRX                             |   |
| <b>Virtual Security</b>  | Built-in                         | 3rd Party  | 3rd Party                                     |

## Sangfor HCI Specifications



|  | Edition                           | Basic                  | Standard               | Advanced               |
|--|-----------------------------------|------------------------|------------------------|------------------------|
|  | License                           | aSV+aSAN               | aSV+aSAN+aNET          | aSV+aSAN+aNET +CDP+vAF |
| Hardware Spec  | CPU Socket                        | 1                      | 2                      | 2                      |
|  | CPU Model                         | Silver 4210R           | Silver 4210R           | Gold 6226R             |
|  | CPU Performance                   | 10C20T 2.4GHZ          | 10C20T 2.4GHZ          | 16C32T 2.9GHZ          |
|  | RAM                               | 64GB                   | 128GB                  | 256GB                  |
|  | SSD                               | 960GB                  | 1.44TB                 | 1.92TB                 |
|  | Storage Performance (IOPS)        | 30k                    | 70k                    | 100k                   |
|  | Storage Capacity (raw)            | 12TB                   | 20TB                   | 24T                    |
|  | Network Port                      | 6*GE                   | 2*10GE+6*GE            | 2*10GE+6*GE            |
|  | Power Supply                      | Redundant power supply | Redundant power supply | Redundant power supply |
| VM quantity per server                                   | Light Load System (2 CPU / 4G)    | 6-10                   | 16-20                  | 24-32                  |
|  | Moderate Load System (4 CPU / 8G) | 4-6                    | 8-12                   | 16-24                  |
|  | Heavy Load System (8 CPU / 16G)   | 2-3                    | 6-8                    | 8-12                   |
| Common system capabilities per server (Concurrent users) | Oracle                            | 60                     | 200                    | 400                    |
|  | SQL Server                        | 60                     | 200                    | 400                    |
|  | ERP                               | 60                     | 200                    | 400                    |
|  | MES                               | 60                     | 200                    | 400                    |
|  | OA                                | 60                     | 200                    | 400                    |



# Sangfor HCI Specifications

| Edition  |  | Basic | Standard | Advanced |
|----------|--|-------|----------|----------|
| Function | VM O&M                                 | √     | √        | √        |
|          | VM HA                                  | √     | √        | √        |
|          | High Reliability of Storage            | √     | √        | √        |
|          | Storage Performance Enhancement        | √     | √        | √        |
|          | Resource Management Center             | √     | √        | √        |
|          | Managing VMware vCenter                | √     | √        | √        |
|          | Reliability Center                     | √     | √        | √        |
|          | System Backup & Restore (Hour Level)   | √     | √        | √        |
|          | What You Draw is What You Get Topology | √     | √        | √        |
|          | Virtual Router                         | 1     | √        | √        |
|          | Virtual Switch                         | 2     | √        | √        |
|          | Distribution FW (4 layer)              | —     | √        | √        |
|          | Real-Time Vulnerability Assessment     | —     | —        | √        |
|          | IPS                                    | —     | —        | √        |
|          | WAF(Recommended by NSS Lab)            | —     | —        | √        |
|          | Ransomware Protection                  | —     | —        | √        |
|          | ATP                                    | —     | —        | √        |
|          | Security Report                        | —     | —        | √        |
|          | Sandbox                                | —     | —        | √        |
|          | CDP (Second level)                     | —     | —        | 5        |

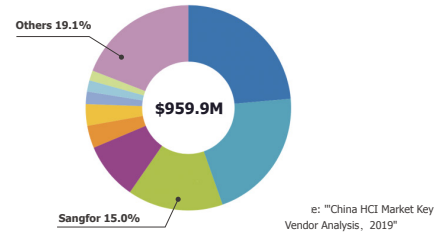
## Leader in HCI Market



According to IDC statistics, in 2019, Sangfor HCI ranked 3rd in China HCI market with a remarkable 30.1% YoY growth rate. This is the 4th consecutive year that Sangfor is in top 3 in China HCI market since 2016.

In the corporate market, Sangfor HCI has served more than 8,000 customers and ranked first in market share. And more than 60% of the users have migrated their core business or all their business to Sangfor HCI.

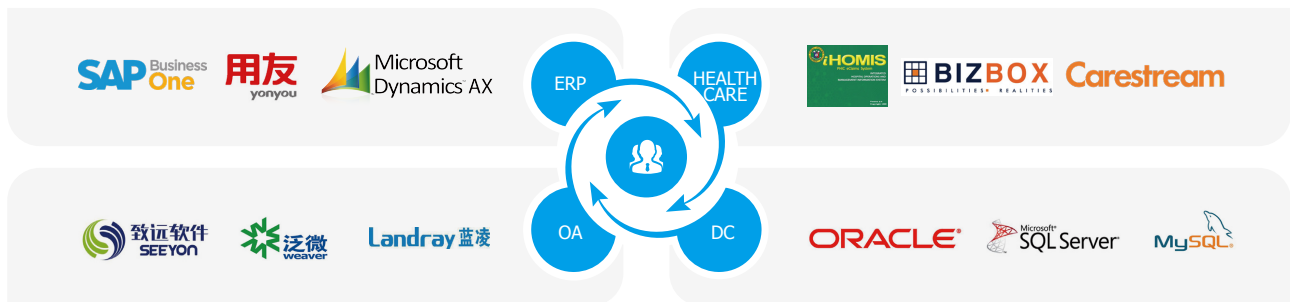
China HCI Market Overview, 2019



## Build a Strong Ecological Cooperation



With its excellent performance and reliability, Sangfor HCI has been highly recognized by mainstream software vendors in the industry. By building a wide range of eco-cooperation circles, it has improved the overall competitiveness of its products, providing customers with better products and services, and helping enterprises to "digitalize".



## HCI Customer Success



**Your One-Stop Solution Provider for Network Security & Cloud Computing**

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