



SANGFOR



SANGFOR CLOUD

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BUILDING CLOUD DATA CENTER with SANGFOR HCI Solution

Demand Analysis of New DC Construction



Secure & Reliable

Platform needs to meet the basic technical requirements reliability and security to ensure efficient delivery of business and reliable data management.



Highly Efficient O&M

To reduce the complexity of the data center construction process and the subsequent O&M, and release IT resources to improve daily IT efficiency



Economical & Flexible

The usage of virtualization, cloud computing & other technologies significantly cuts cost and enabling the establishment of a sharable, flexible & elastic IT infrastructure.

Traditional Construction Methods & Challenges



Planning

- Huge Upfront Cost
- Cumbersome Design

Planning 3-5 years ahead; requiring 2.5 times of advanced investment; stacking & integration of a variety of hardware complicating the overall design



Construction

- Large Investment
- Slow Business On-Line

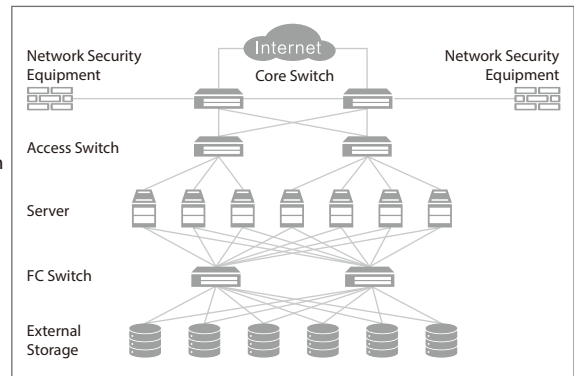
Hardware equipment accounts for over 45% of investment & low utilization rate is usual; the procurement-deployment cycle is over 6 months



O & M

- Heavy Maintenance
- Complicated Expansion

IT personnel spend 60% of their time on daily O & M; expansion via hardware replacement causes undesirable changes on business & infrastructure during



Building Cloud Data Center with Hyper-Converged Infrastructure

▶ "Software-Defined" leads the new direction of data center revolution



Investment Reduction

Using only general X86 servers & switches, Software Defined Data Center (SDDC) decouples software from hardware, thus reduces complexity of IT system, conserves resources & time and cuts down cost



Flexible & Efficient

IT resources can be flexibly defined, distributed on demand and is capable of scale-out expansion; business needs can be responded to rapidly through automated orchestration

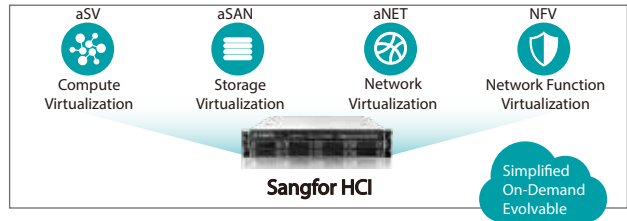


Automated Management

Automatically manage all business strategies such as service level, visual operation & maintenance, template construction, centralized strategy development and comprehensive monitoring

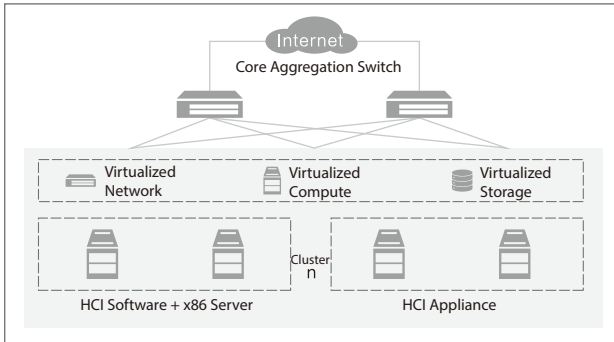
► **Hyper-Converged Infrastructure is the Best Way to Achieve "Software-Defined Data Center"**

Sangfor HCI deeply integrates compute, storage, network and network functions (security & optimization) into a standard x86 server by virtualization technology, forming a standardized HCI unit. Through a WEB management platform, multiple HCI units are integrated into the data center as a whole IT infrastructure and O&M is unified & visualized. As a result, users can create new IT framework that is ultra- simplified and can grow on-demand & evolve smoothly.



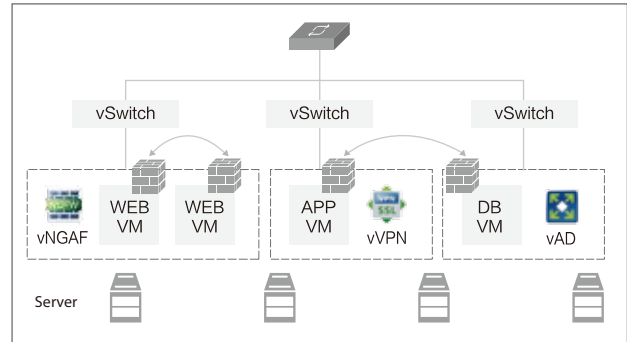
Step1 Simplified Construction

- Only need to purchase standard X86 servers & switches
- Use HCI software to "define" & construct IT architecture



Step2 Deep integration of NFV Components

- Network virtualization & security functions integratedly running on software
- No need to purchase & deploy complex SDN network & dedicated hardware
- Dynamic & on-demand resource expansion with no impact on business



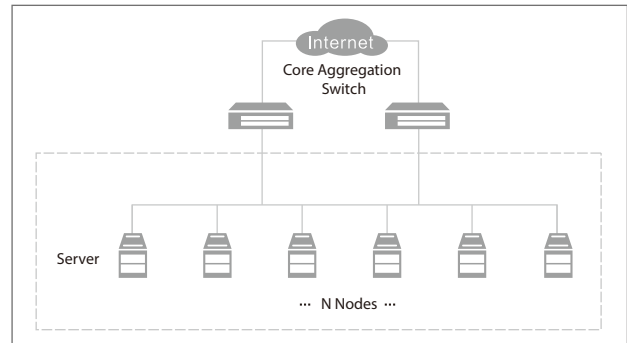
Step3 Simplified O&M Management

- Centralized, unified & visualized resource management
- "What you draw is what you get" topology, 1-click fault location
- 2 kinds of resources management role: administrator & tenant

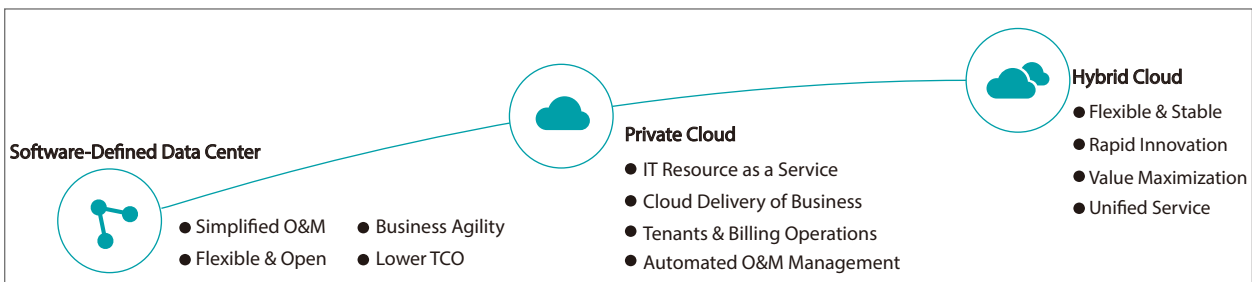


Step4 Elastic Modular Expansion

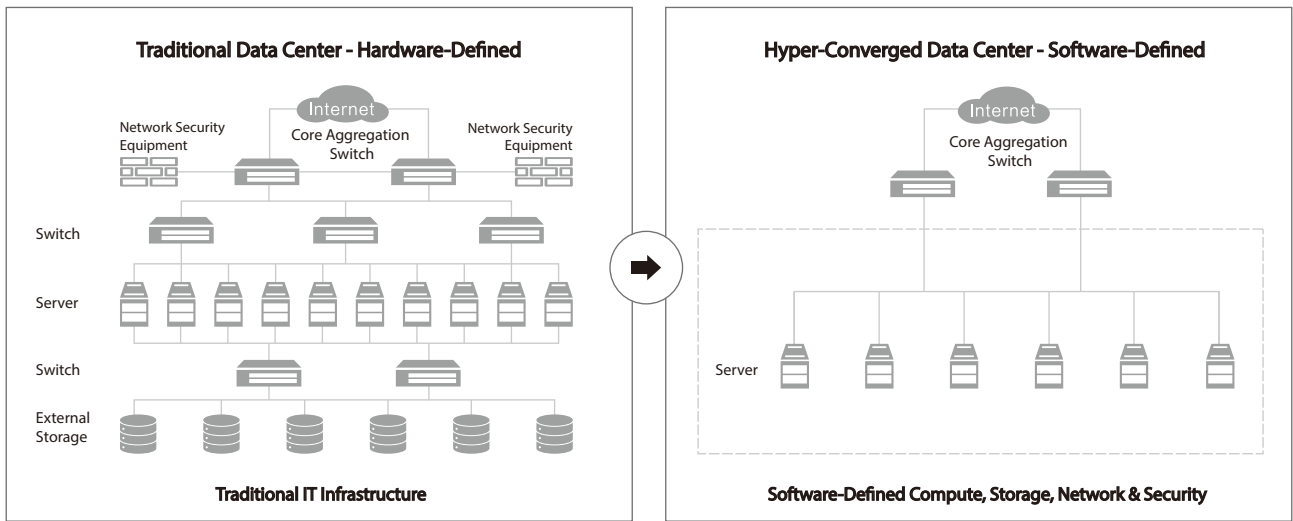
- No need to change original structure, only require to add HCI nodes
- Newly-added nodes can improve both performance & capacity



► **The Software-Defined Data Center based on HCI is Capable of Smooth Transition towards Cloud**

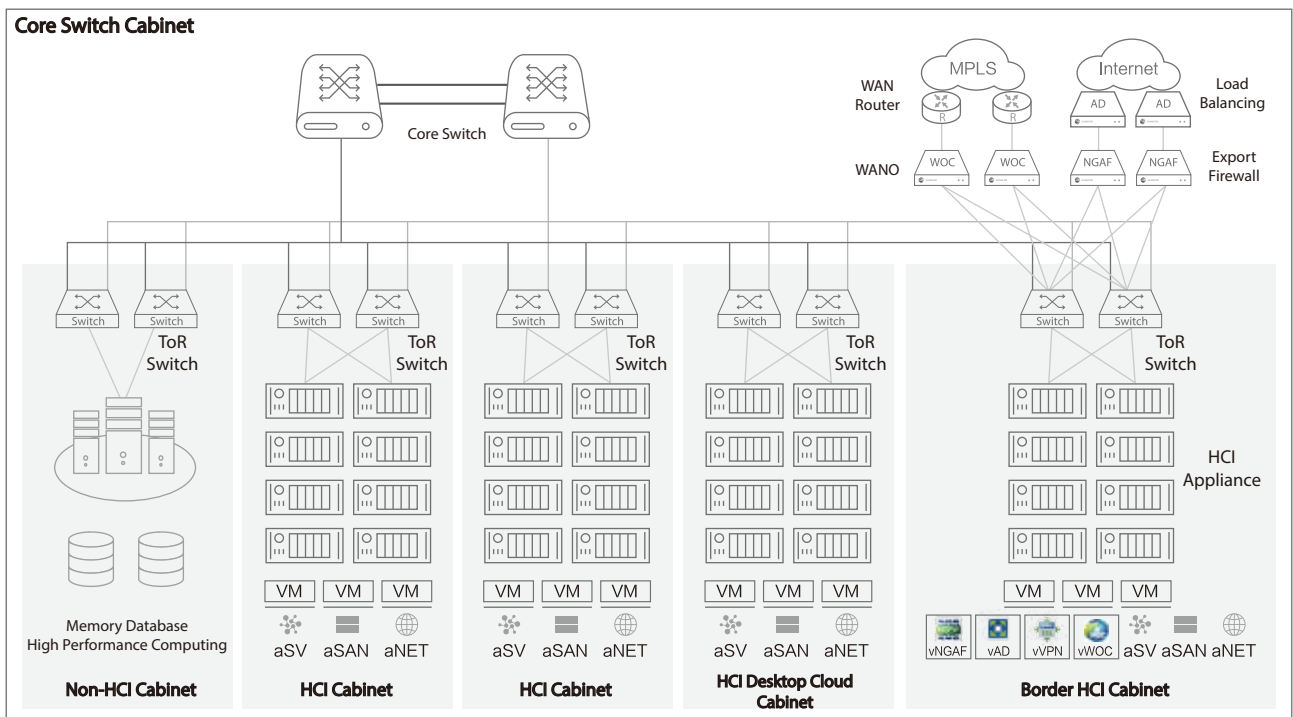


Analysis of Solution Advantages and Values



<p>30% TCO Reduction</p>	<p>App Online 50% Faster</p>	<p>O&M Complexity 60% Less</p>	<p>Cloudization</p>
<p>Reduce hardware procurement & investment Save energy consumption & cabinet space</p>	<p>Simplified platform construction requiring only servers & switches Flexible scale-out modular expansion</p>	<p>Unified, centralized & visualized management Build upon templates, 1-click fault location</p>	<p>Keep up with business & technical development, invest on demand Smooth transition towards cloud, no change on original architecture</p>

► **Cloud Data Center Topology based on Hyper-Converged Infrastructure**





Building Cloud Data Center
with Hyper-Converged Infrastructure

Our Customers



SANGFOR

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