DATA CENTER TRANSFORMATION
with SANGFOR HCI Solution

Demand Analysis of Data Center Transformation

**Low Resource Utilization Rate**
Need Consolidation

Solve problems like space constraints, power consumption, difficulty of IT resource expansion and complexity of multi-layer management through virtualization.

**Resource Bottleneck**
Need Expansion

Solve the problem of capacity and performance shortage by purchasing large amount of server, networking, storage and security hardware devices.
Data Center Transformation with Hyper-Converged Infrastructure

Problems and Challenges Faced by Traditional Transformation Approach

01 High Cost of Investment
Phase out existing IT hardware while purchasing new ones, such as storage devices with high performance and large capacity.

02 Big Impact on Business
Spend too much time on infrastructure tuning and platform reconstruction, causing serious impact on business, extending the on-line time of new business.

03 Heavy Workload of O & M
Not only complex management of server virtualization platform, but also loads of maintenance for a large number of basic network equipments, network security, storage hardware, etc.

04 Difficult to Scale Out
Subsequent platform expansion will be caught in a circular construction mode of high upfront cost, negative impact on business and complex operation and maintenance.

The Ideal Data Center Transformation Approach

Lower TCO
Significant reduction of new hardware purchase, maximize utilization rate of existing IT devices

Simplified O&M
Centralized, visualized and automated IT resource management

Flexible IT Architecture
Pay as you grow, modular expansion, no need to make changes to the existing infrastructure

Cloud Evolution
Achieve the evolution one step at a time, transforming smoothly to cloud architecture

Data Center Transformation with Sangfor HCI

Sangfor Hyper-Converged Infrastructure
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.
Solution Design Based on Hyper-Converged Infrastructure

- **Software Installation**: Use existing servers or purchase Sangfor HCI appliance
- **Resource Orchestration**: Establish business topology & allocate resources with “what you draw is what you get”
- **Business Migration**: Move physical hosts or third party VMs to HCI platform
- **Centralized O&M**: Centrally manage all IT resources with visualized troubleshooting and fault location
- **Elastic Expansion**: Rapid expansion with one node at a time

Before and After Deploying HCI

- **Traditional DC Architecture**:
  - Business 1
  - Business 2
  - Business n

- **HCI Architecture**:
  - Unified Resource Platform
    - Software-Defined Compute
    - Software-Defined Storage
    - Software-Defined Network

Analysis of Solution Advantages and Values

- **Maximum Protection for IT Investment**: 40%
  - Making full use of existing server hardware, reducing hardware cost by 40% with software defined compute, storage, network and security instead of fragmented and proprietary hardware.

- **Huge Efficiency Improvement for O&M**: 60%
  - Professional migration tool & drawable topology cut 50% of business downtime and 60% of operation & management workload through centralized management and visualized fault detection.

- **One Cloud Management Platform**: Adapt to Cloud Evolution
  - Only one cloud management platform needed to create a full cloud data center without any architectural change.
Data Center Transformation with Hyper-Converged Infrastructure

Our Customers

[Logos of various companies]

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