



QCT's Vision for VMware Solution

QCT's Value Proposition

Reliable Hardware Platform

Experienced in design and manufacture cloud infrastructure solutions with proven record on shipments for hyperscalers

Latest technology

Close relationship with technology partners to joint deliver the latest technology for building your modern cloud

Time to market

Validated and optimized infrastructure solutions delivering ultimate performance and accelerate your time to market

One Stop Shop Experience

Provides comprehensive cloud infrastructure for VMware solutions all under one roof to fulfill your needs



Powered by Intel® Xeon® Scalable Processor

As a world-leading data center solution provider, QCT grasps the pulse of the market to propose workload-driven solutions with the latest technologies to fulfill the needs of different industries. With rapid digital transformations and technology evolutions, we have observed the rising adoption of workloads i.e. Business-Critical Applications (BCA), Cognitive application, cloud-native application, and Network Function Virtualization (NFV). Meanwhile, the development of 5G and NFV also promote the rapid growth of the demand for edge computing. QCT, therefore, has introduced a series of comprehensive infrastructure solutions integrated with VMware software that can support the diverse requirements from data center to telco cloud and to the edge.

The figure below illustrates QCT's vision of the current market. We've launched a series of solutions, named QxStack VMware Edition, with standardized server, storage, switch, and rack (3S1R). The pre-integrated, validated, and optimized infrastructure solutions can be configured based on demands and to guarantee the best performance and reliability to accelerate your business. For more details, please refer to the QR codes below or visit the QCT solution website

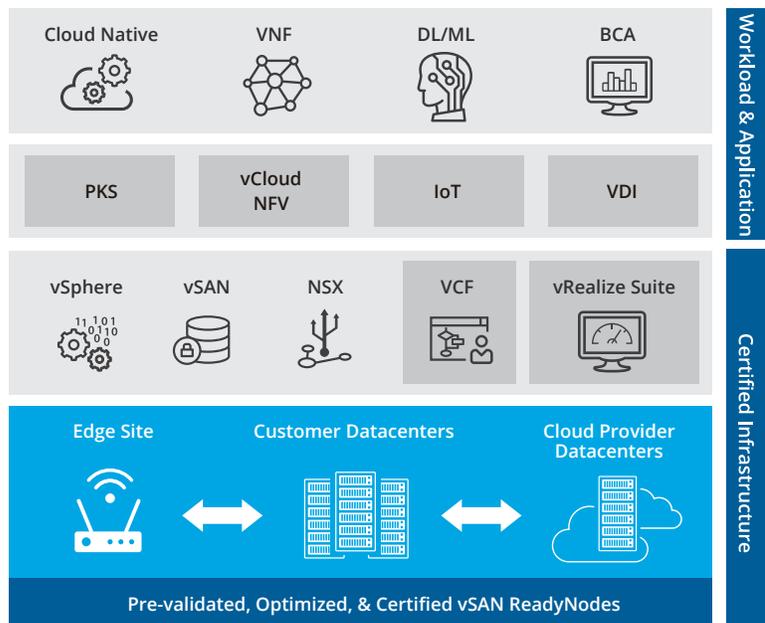


Figure 1. QCT's Vision



QxStack - Solution Brief for MySQL

- **Stability and scalability** with vSAN ALL Flash configuration
- Up to **6,609** average Transaction per second
- **42%** cost saving in capacity consumption



QxStack - Solution Brief for Microsoft SQL Server

- All NVMe configuration for high-performance use case
- **38.9M** transaction per minute
- **4.2M** new order per minute



QxStack - Solution Brief for Oracle® Database

- **Intel® Optane™+SATA SSD** configuration is suitable for your **write-intensive** workloads like OLTP
- **71%** TPM increase
- **33%** cost saving per TPM

QxStack VMware Edition Solutions

In order to provide the most appropriate and stable schemes for workloads, we propose QCT Hyper-Converged infrastructure (HCI) servers that have passed vSAN ReadyNode™ certification as the physical infrastructure for QxStack VMware Edition solutions.

HCI is a novel technology which merges compute, storage, and network in a single chassis. Every single node is capable of delivering compute and storage resources at the same time. By integrating QCT HCI servers with VMware vSAN™, the high availability design for both compute and storage resources can be easily implemented on the hosts as well as deliver high-performance, flash-optimized, easily-scaled hyper-converged storage for any virtualized applications.

To ensure the performance and stability, QCT strictly selects its hardware components, firmware, driver, and the software stack to guarantee the compatibility between servers and software. Various QCT servers have passed the entire range of VMware vSAN ReadyNode™ certifications and are recommended for different VMware solutions. With these certified infrastructures, administrators can save a considerable amount of time verifying hardware performance and compatibility to speed up time-to-market and reduce TCO.

QCT recommends a three-cluster design, which includes management, compute, and network nodes, as shown in Figure 2, for deploying or building cloud environments. By adopting this design, the function blocks can be separated for better operational flexibility. Each cluster corresponds to one vSphere cluster and can be easily scaled out by adding extra nodes. Furthermore, the functions in the three clusters can be separated for IT admins to flexibly allocate the software and hardware resources according to the specific functionality of each cluster.



Learn more:
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QxStack VMware Edition

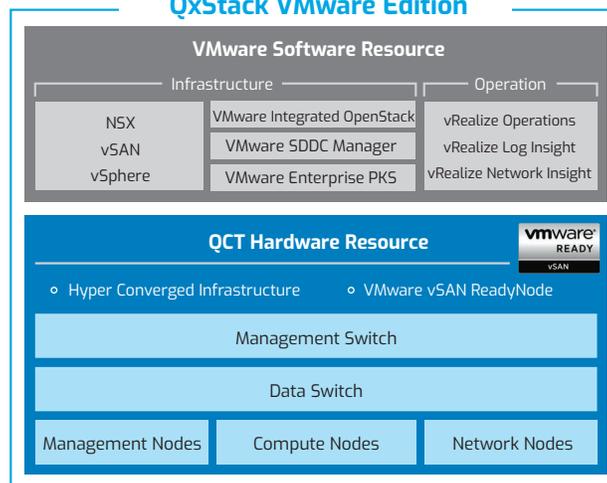


Figure 2. Three cluster design.

About QCT

Quanta Cloud Technology (QCT) is a global data center solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation data center design and operation challenges. QCT serves cloud service providers, telecoms, and enterprises running public, hybrid and private clouds.

Product lines include hyperconverged and software-defined data center solutions as well as servers, storage, switches and integrated racks with a diverse ecosystem of hardware components and software partners. QCT designs, manufactures, integrates and services cutting-edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

<http://www.QCT.io>

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