

Pre-Integrated and Validated OpenStack Infrastructure from Data Center to Edge

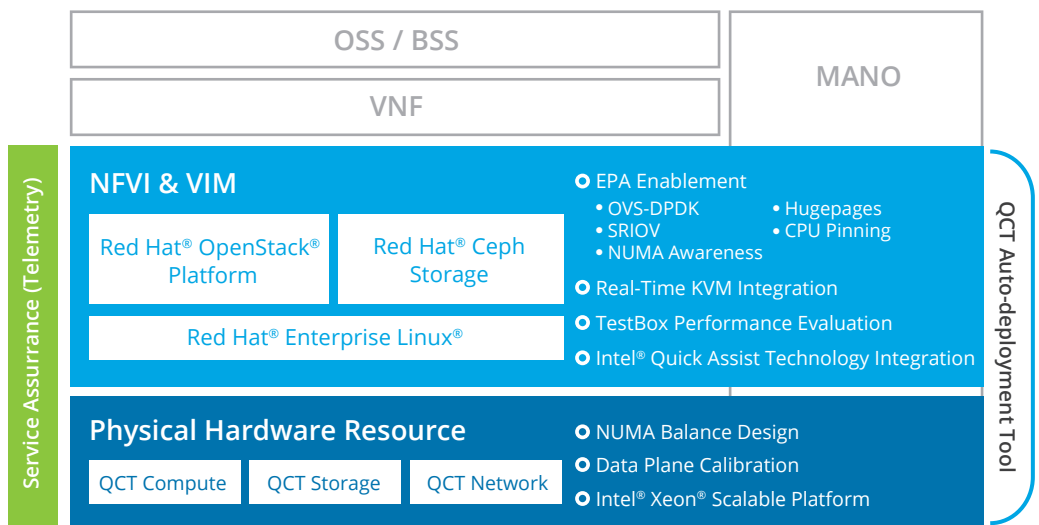
At a Glance

Along with the evolution of network technology, cloud computing adoption has created tremendous business opportunities, particularly in digital transformation and IoT adoption in the 5G era. Developers and IT operators are looking for agile cloud computing platforms to support business development. OpenStack is taking a leading role among the open source virtualization technologies. With its maturity and flexibility, OpenStack is enabled not only in data centers but also at the edge.

QCT QxStack with Red Hat OpenStack Platform provides a comprehensive solution for cloud service providers, enterprises, and Telecom operators. The platform is designed with high network bandwidth and the capacity to meet demanding performance requirements.

Key Values:

- Integrated Red Hat OpenStack Platform with Red Hat Ceph Storage for scalability and flexibility.
- Enabled EPA features for improving network performance.
- Comprehensive validation of performance and function with easy-to-use toolkit.
- Intel® Quick Assist Technology (QAT) and Real-Time KVM optional features to accelerate system performance.
- Optimized solution with QCT Auto Deployment Tool for accelerating time-to-market.
- Add-on solutions for system validation and operational monitoring architectures quickly.



Key Features and Capabilities



Open and Flexible

QxStack with Red Hat OpenStack Platform is an open and standardized platform which supports various use cases. From the physical layer to the virtualization layer, QCT builds an interoperable foundation without vendor lock-in, that avoids issues from proprietary appliances and provides an architecture with high flexibility.



Enhanced Platform Awareness (EPA) Design

The stack adopts EPA designs and fully takes advantage of QCT NUMA-balanced systems. With NUMA awareness and CPU pinning, QxStack with Red Hat OpenStack Platform is able to allocate resources separately; while with PCI pass-through technology, the compute nodes with OVS-DPDK and SR-IOV enablement are proven to improve network performance.



Validated by QCT TestBox

To provide a reliable infrastructure, QCT introduced a Test-in-a-Box (named TestBox) for an easy-to-use toolkit to validate this OpenStack solution. QCT has executed a series of tests to verify the resource allocation and PCI pass-through performance and consolidate the test results of network throughput, packet loss, and latency.



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Optional Features: Intel® Quick Assist Technology (QAT) & Real-Time KVM

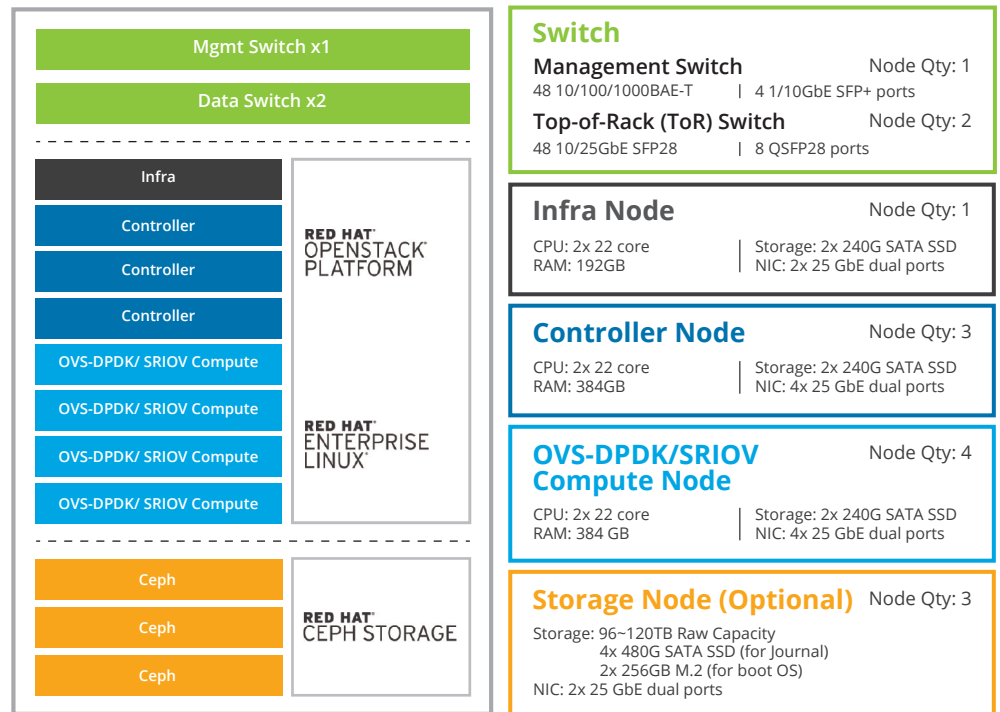
QCT enables two optional features to enhance system performance. By adopting the Intel® QAT card, the architecture can provide the security, authentication, and compression, along with acceleration, performance, and efficiency. With Real-Time KVM, the architecture can deliver low average latency and minimal jitter to avoid spikes that might cause a service degradation or even disruption.



Additional Tools: Automated Deployment and Service Assurance Framework

Real world OpenStack deployments generally come with a massive scale. QCT's Auto Deployment Tool is suitable for hastening the complicated OpenStack set-up process. For service assurance, QCT also developed a telemetry solution to deal with large scale performance data (metrics) and to implement service assurance for administrators to monitor resources.

Recommended Minimum Specifications



About QCT

QCT is a global data center solution provider extending the power of hyperscale data center design in standard and open SKUs to all datacenter customers. Product lines include servers, storage, network switches, integrated rack systems and cloud solutions, all delivering hyperscale efficiency, scalability, reliability, manageability, serviceability and optimized performance for each workload. QCT offers a full spectrum of datacenter products and services from engineering, integration and optimization to global supply chain support, all under one roof. The parent of QCT is Quanta Computer Inc., a Fortune Global 500 technology engineering and manufacturing company.

<http://www.QCT.io>

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