

QxData Series

Cloudera,
Hortonworks,
MapR



Simplify and Accelerate Deployment of Apache Hadoop

Today, big data tends to be widely distributed and largely unstructured. Hadoop, the core technology of big data analytics, works by breaking data into pieces and assigning each "piece" to a specific cluster node for analysis. Apache Hadoop is an open-source solution framework that supports data-intensive distributed applications on large clusters of industrial standard hardware.

What QxData Series Can Offer

The QxData Series are collaborations between QCT and Cloudera, Hortonworks, and MapR to develop a big data reference architecture so that businesses can manage and analyze big data without spending excessive time on maintenance and operations. With the QxData Series, an enterprise can adopt Apache Hadoop with minimum effort.

Solution Highlights



Flexibility:
Scale-up and scale-out architecture provides much more flexibility.



Reliability:
Full redundancy design on storage, network, compute and power.



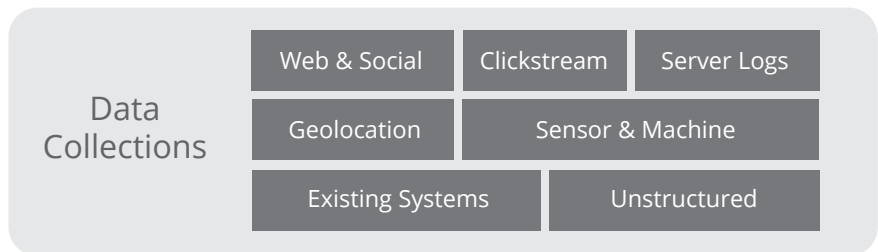
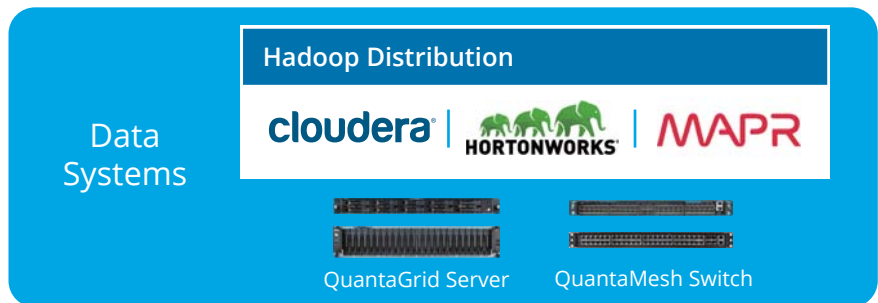
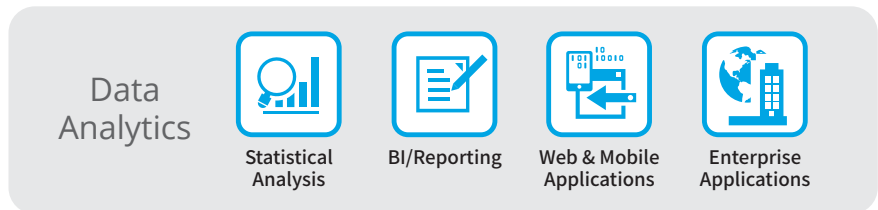
Optimization:
Fine-tuned performance powered by QuantaGrid servers.

Use Cases

- ▶ Data discovery
- ▶ Customer 360
- ▶ ETL offload
- ▶ Predictive analytics
- ▶ Active archive



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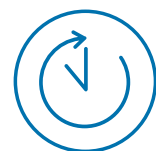
Customer Benefits



Visibility:
Providing visibility to secure, govern, and explore large amounts of diverse data.



Enterprise-ready:
Fully tested and enterprise ready to provide end-to-end data lineage.

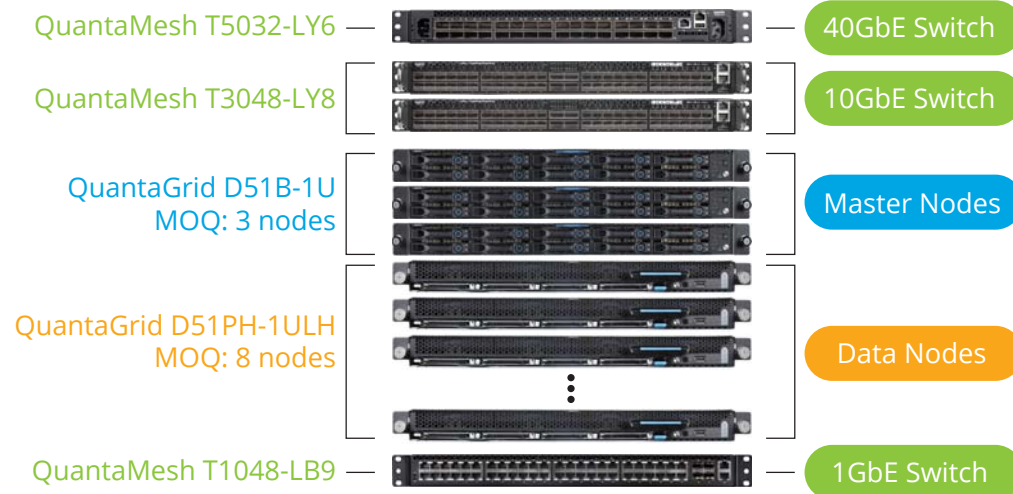


Time-to-solution:
Scalable and agile to support business growth.

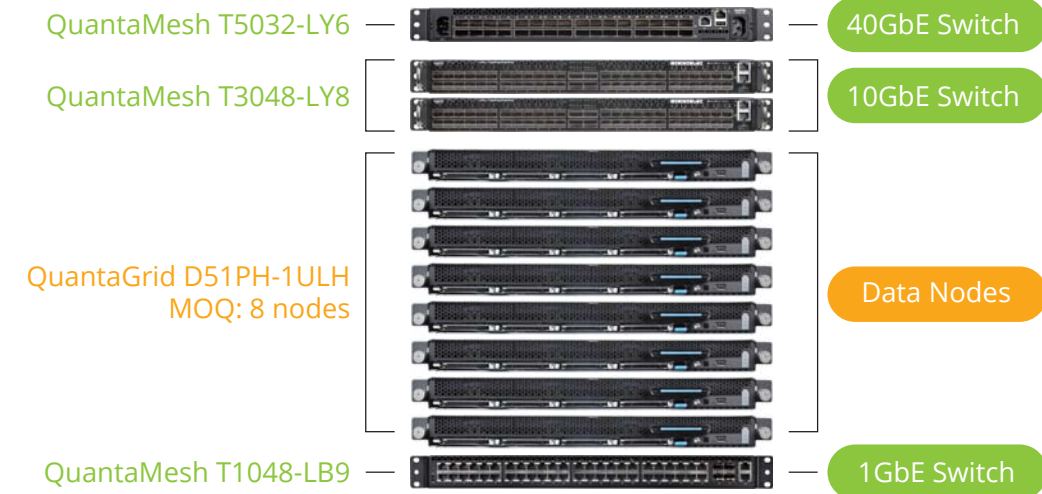
Big Data Reference Architecture



Cloudera / Hortonworks



MapR



QCT Big Data Building Blocks

	Master Node General	Data Node Performance Optimized	Data Node Performance & Capacity Balanced	Data Node Capacity Optimized
Purpose	<ul style="list-style-type: none"> Management & control Stores metadata 	<ul style="list-style-type: none"> Compute Stores data 	<ul style="list-style-type: none"> Compute Stores data 	<ul style="list-style-type: none"> Compute Stores data
Model	QuantaGrid D51B-1U 2.5"	QuantaGrid D51B-2U 3.5"	QuantaGrid D51PH-1U	QuantaPlex T21P-4U
CPU	Intel® Xeon® E5-2660 v4 (2.0GHz)	Intel® Xeon® E5-2667 v4 (3.2GHz)	Intel® Xeon® E5-2680 v4 (2.4GHz)	Intel® Xeon® E5-2660 v4 (2.0GHz)
Memory	<ul style="list-style-type: none"> 24 (R/LRDIMM) slots 256GB RDIMM (rec.) 768GB RDIMM (max.) 	<ul style="list-style-type: none"> 24 (R/LRDIMM) slots 512GB RDIMM (rec.) 768GB RDIMM (max.) 	<ul style="list-style-type: none"> 16 (R/LRDIMM) slots 256GB RDIMM (rec.) 512GB RDIMM (max.) 	<ul style="list-style-type: none"> 16 (R/LRDIMM) slots 256GB RDIMM (rec.) 512GB RDIMM (max.)
HDD	<ul style="list-style-type: none"> 8 * (SAS 12Gb) 2TB 7.2K 2.5" for metadata RAID 1 	<ul style="list-style-type: none"> 12 * (SAS 12Gb) 8TB 7.2K 3.5" for data 	<ul style="list-style-type: none"> 12 * (SAS 12Gb) 8TB 7.2K 3.5" for data 	<ul style="list-style-type: none"> 78 * (SAS 12Gb) 8TB 7.2K 3.5" for data
SSD SATA	<ul style="list-style-type: none"> 2 * 480GB 2.5" 7mm for OS RAID 1 	<ul style="list-style-type: none"> 2 * 480GB 2.5" 7mm for OS RAID 1 	<ul style="list-style-type: none"> 2 * 480GB 2.5" 7mm for OS RAID 1 	<ul style="list-style-type: none"> 2 * 480GB 2.5" 7mm for OS RAID 1
Raw Capacity/ Node	16 TB/ node	96 TB/ node	96 TB/ node	624 TB/ node
Minimum Nodes/ Cluster	3	8	8	8



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About QCT

Quanta Cloud Technology (QCT) is a global datacenter solution provider extending the power of hyperscale datacenter design in standard and open SKUs to all datacenter customers.

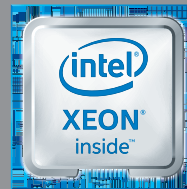
Product lines include servers, storage, network switches, integrated rack systems and cloud solutions, all delivering hyperscale efficiency, scalability, reliability, manageability, serviceability and optimized performance for each workload.

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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QCT authorized partner

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