ONIE Project Update

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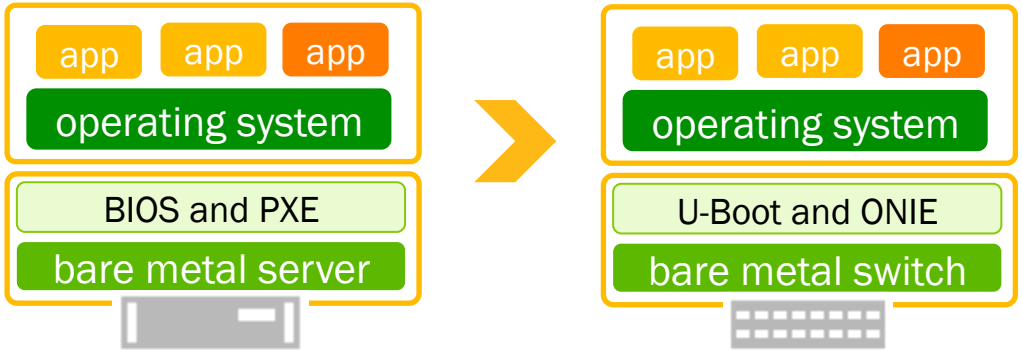
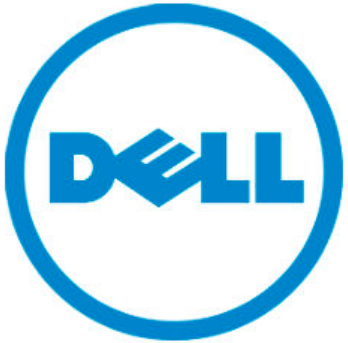
14th May 2013 @ RIPE68, Open Source Working Group

Similar approach to installing OS on server

- BIOS + PXE = U-Boot + ONIE (Open Network Install Environment)
- Supported hardware (HCL) preloaded with ONIE
- ONIE available on GitHub
  http://onie.github.io/onie/



Hardware Vendors



Operating System Vendors

The UTSA OCP Lab will …

- Collaborate on test plans
- Help develop test suites
- Help HW vendors certify their ONIE implementation
- Benefit OS vendors
- Improve the quality of the ONIE project

cumulus

Support Multiple CPU Architectures

- PowerPC - ready today
- x86 – ready today
- X86 Virtual machines
- Planning for ARM and MIPS
- Maintain ONIE behaviors across architectures

Choice

QuantaMesh BMS products offer higher performance, increased availability, low latency and better serviceability. QuantaMesh T1048-LB9 supports 48 10Base-T/100Base-TX/1000Base-T ports and 4 dual speed 1/10GbE SFP+ ports in a compact 1U size. By leveraging merchant silicon chips, T1048-LB9 is a high performance high density Ethernet switch with an affordable price for the deployment of data center infrastructure. With ONIE (Open Network Installation Environment) pre-loaded on QuantaMesh BMS switches, it provides the flexibility and allows choice of network operating system supported by ONIE installer. This provides agile installation process and faster response for the changing business demand.

Quanta

QuantaMesh 1000 Series
BMS T1048-LB9

A Powerful Top-of-Rack Switch for Cloud Datacenters

Overview

Datacenter networks are facing a major paradigm shift toward the disaggregation of software and hardware. This move, combined with the benefits of software-defined networking (SDN) allows network administrators respond quickly to changing business requirements at a lower capital cost as well as reducing the network operations complexity.

QuantaMesh BMS products offer higher performance, increased availability, low latency and better serviceability. QuantaMesh T1048-LB9 supports 48 10Base-T/100Base-TX/1000Base-T ports and 4 dual speed 1/10GbE SFP+ ports in a compact 1U size. By leveraging merchant silicon chips, T1048-LB9 is a high performance high density Ethernet switch with an affordable price for the deployment of data center infrastructure. With ONIE (Open Network Installation Environment) pre-loaded on QuantaMesh BMS switches, it provides the flexibility and allows choice of network operating system supported by ONIE installer. This provides agile installation process and faster response for the changing business demand.

Simplicity

48 10Base-T/100Base-TX/1000Base-T ports
4 SFP+ ports support 1/10GbE
1 RJ-45 out-of-band management port (10/100/1000M)
1 RJ-45 console port
1+1 hot-swappable power supply

High Switching Performance

Switching capacity: 176Gbps
Forwarding rate: 131Mpps
Memory: 1024MB DDR1
Flash: 64MB
MAC: 32K
Packet buffer: 4MB
Jumbo frame: 12K
Storage: 2GB CF

Mechanical

Dimension (HxWxD): 42.8x435x393.7 mm
Weight: 7.2kg (NET)

Operation Environment

Operating temperature: 0~45°C
Operating humidity: 90% maximum relative humidity

Safety

UL, cUL, CB, BSMI, CCC

EMC

CE, FCC, VCCI, MSIP, BSMI, CCC, RCM, Anatel

Environmental

Reduction of Hazardous Substances (RoHS) 6

Order Information

T1048-LB9 (1LB9BZZ0STQ) (Front to Back)
T1048-LB9 (1LB9BZZ0STR) (Back to Front)

QCT LLC.
47709 Fremont Boulevard, Fremont CA 94538
Sales: +1-510-270-6111 Fax: +1-510-270-6161 Support: +1-510-270-6216
Toll Free: 1-855-QCT-MUST
E-mail: sales@QuantaQCT.com For more information, please visit
http://www.QuantaQCT.com
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Choice

Servers today

How do I make my IT infrastructure live up to its true potential?

Help Me Choose

- No Operating System [Included in Price]
- Red Hat Enterprise Linux 6.3,Factory Install,x64,Req Lic&Sub Selection add $0.00
- Red Hat Enterprise Linux Non Factory Install,x64,Req Lic&Sub Selection add $0.00
- SUSE Linux Enterprise Server,Non Factory Install,Requires License & Subscription Selection add $0.00
- Microsoft® Small Business Server 2011, Standard Edition, Factory Installed [add $772.39]
- Windows Server 2008 R2 SP1, Enterprise Edition,x64, Includes 10 CALs [add $2,127.07]
- Windows Server 2008 R2 SP1, Standard Edition,x64, Includes 5 CALS [add $687.27]
- Windows Server 2008 R2 SP1, Datacenter Edition (2CPU),x64 [add $3,410.84]
- Windows Server® 2012,Standard Ed,Factory Install,No MED,2 Socket,2 VMs [add $687.27]
  Dell Recommended
- Windows Server® 2012,Datacenter Ed,Factory Install,No MED,Unlimited VM [add $3,410.84]
- SUSE Linux Enterprise Server 11,Factory Install,Requires License & Subscription Selection add $0.00

Networking Tomorrow

How do I make my network live up to its true potential?

Help Me Choose

- Dell Networking OS (Force 10)
- Cumulus Linux
- Other Operating System
- No Operating System

Questions

Thank You!

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