ONIE Project Update

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Summary – what is ONIE?

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

Agema

Penguin Computing

Mellanox Technologies

BROADCOM

Edge-core Networks

Interface Masters

Quanta
Operating System Vendors

- Big Switch Networks
- Cumulus
- Mellanox Technologies
- Broadcom
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
ONIE Ongoing development

Support Multiple CPU Architectures

- PowerPC - ready today
- x86 – ready today
- X86 Virtual machines
- Planning for ARM and MIPS
- Maintain ONIE behaviors across architectures
QuantaMesh BMS products offer higher performance, increased availability, low latency and better serviceability. QuantaMesh T1048-LB9 supports 48 10Base-T/100Base-TX/100Base-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.
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[x86], Req Lic&Sub Selection add $0.00
- Red Hat Enterprise Linux Non Factory Install[x86], Req Lic&Sub Selection add $0.00
- SUSE Linux Enterprise Server, Non Factory Install, Requires License & Subscription Selection add $0.00
- 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 $867.27]
- Windows Server 2008 R2 SP1, Datacenter Edition (2CPU), x64 [add $3,410.84]
- Windows Server 2012, Standard Ed, Factory Install, No M1/M2 Socket, 2 VMs [add $667.27]

Dell Recommended

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
Bringing the Linux Revolution to Networking

Thank You!