OPEN

Compute Project

MICROSOFT & OCP

2014
Joined Open Compute Foundation
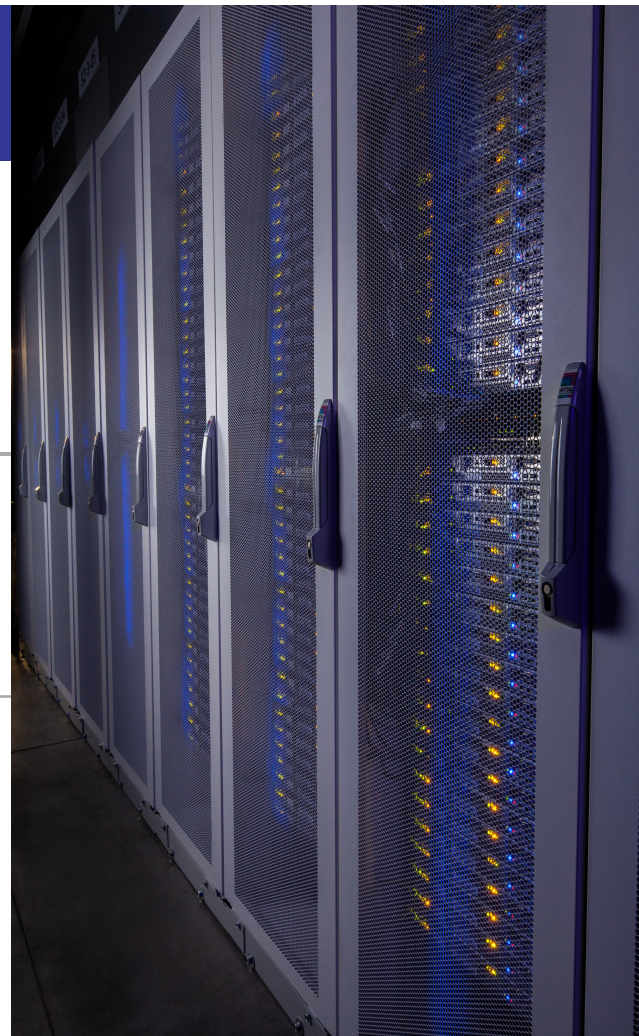Open Cloud Server (OCS) Spec
Cloud SSD M.2 Spec

2015
Local Energy Storage – Server UPS
Switch Abstraction Interface (SAI)

2016
SONiC Network Switch Software
Project Olympus Spec

PROJECT OLYMPUS RECAP

Next-gen Cloud Hardware
Open sourced cutting-edge Hyperscale cloud hardware developed at Microsoft

Development Model
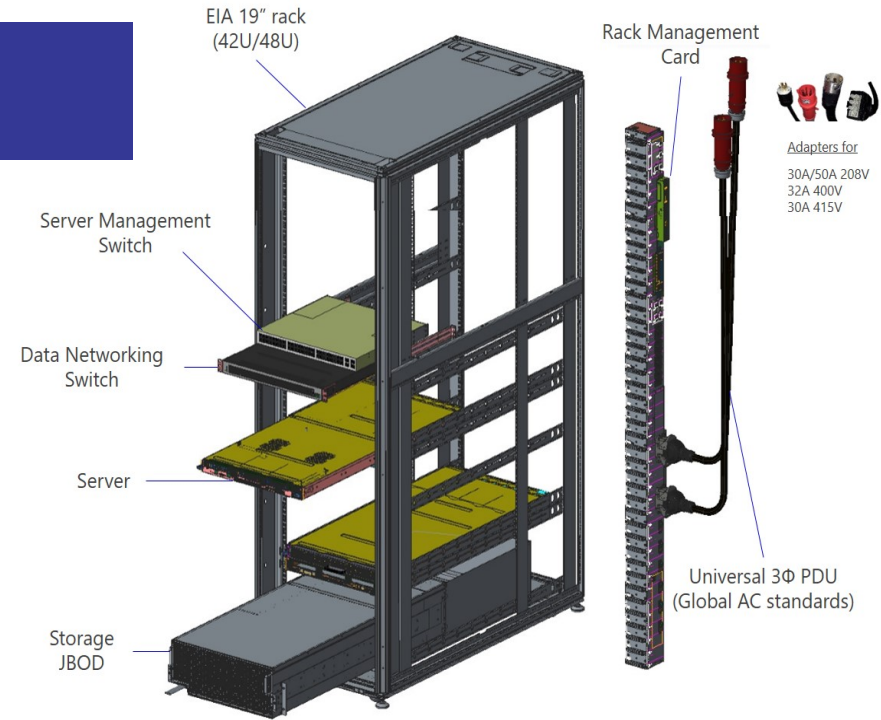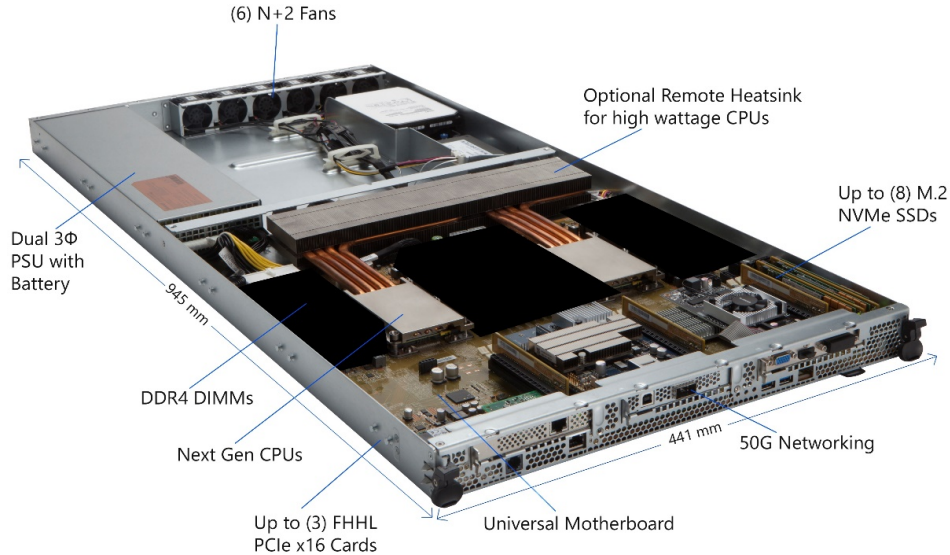New collaboration model with OCP community - co-develop open hardware at cloud speed

Industry Ecosystem
Bootstrap a vibrant ecosystem in OCP for the next generation of datacenter hardware

PROJECT OLYMPUS DESIGN

(6) N+2 Fans

Optional Remote Heatsink for high wattage CPUs

Up to (8) M.2 NVMe SSDs

Dual 3Φ PSU with Battery

945 mm

DDR4 DIMMs

Next Gen CPUs

441 mm

50G Networking

Up to (3) FHHL PCIe x16 Cards

Universal Motherboard

EIA 19" rack (42U/48U)

Rack Management Card

Adapters for
30A/50A 208V
32A 400V
30A 415V

Server Management Switch

Data Networking Switch

Server

Storage JBOD

Universal 3Φ PDU (Global AC standards)

| Modular building blocks | High Power Efficiency | Cost Optimized | Global Datacenter Standards | Solution delivery agility |

PLACEHOLDER FOR VIDEO EMBED

PROJECT OLYMPUS ECOSYSTEM PARTNERS

CPU
- intel
- AMD
- QUALCOMM
- CAVIUM

COMPONENTS
- NVIDIA
- BROADCOM
- Mellanox TECHNOLOGIES
- TEXAS INSTRUMENTS
- flex
- ARTESYN
- LITEON
- HARTING
- Schneider Electric
- ingrasys
- Inventec
- GEIST
- hynix
- SAMSUNG
- MARVELL
- RITTAL

SYSTEMS
- Hewlett Packard Enterprise
- DELL
- wiwynn
- Quanta
- zt Systems
- inspur
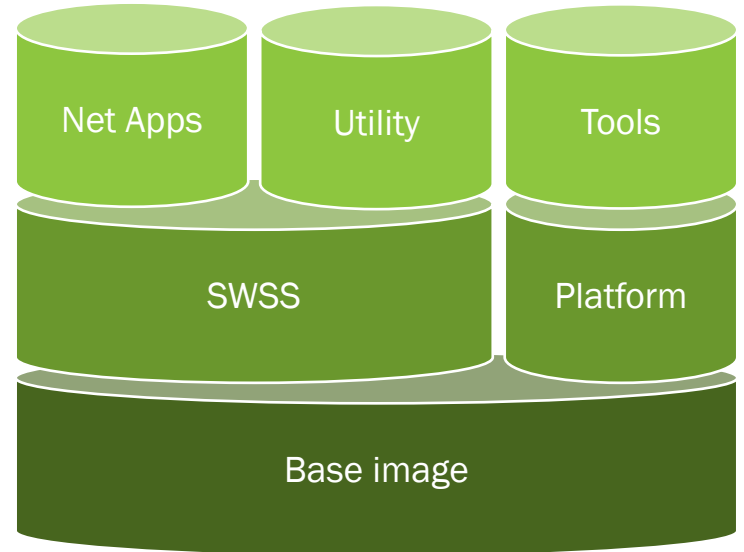
OPEN NETWORKING IN THE CLOUD

SONiC – Fully Open Sourced Software for building network switching

- ✓ Born in Cloud Powering Microsoft Azure at scale
- ✓ Unique containerized approach
- ✓ Rich Monitoring and diagnostics capabilities
- ✓ Fully open ecosystem   enables customer choices

Net Apps

Utility

Tools

SWSS

Platform

Base image

OPEN NETWORKING IN THE CLOUD

SONiC – Fully Open Sourced Software for building network switching

- ✓ Broadly supported by the OCP community

- ✓ Ecosystem rapidly growing
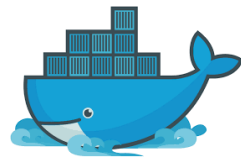
- ✓ ASICs, Switches, App/Tooling

Leendert van Doorn

Distinguished Engineer, Azure

OPTIMIZING ARM64 SERVERS FOR MICROSOFT'S CLOUD SERVICES

Evaluating multiple ARM64 servers (Qualcomm, Cavium and others)

Ported Windows Server for Azure internal use only

Easy deployment with *Project Olympus* compliant motherboards

MICROSOFT IS COMMITTED TO OCP AND OPEN SOURCE

Significant OCP momentum for *Project Olympus* and SONiC

HGX-1: New Hyperscale industry standard for GPU acceleration on AI

ARM64 servers enabled for OCP community with *Project Olympus*

Learn More

Attend Exec Talk

2:35pm

Leendert Van Doorn
Enabling Cloud Workloads Through Innovations in Silicon

Visit Microsoft booth for demos

Project Olympus

SONiC

ARM64

Get specs and collateral at OCP Github repo