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Enzo Romeo Marro - Sales Manager Italia

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Supermicro Solutions Overview

Cloud DataCenter - Virtualization

Soluzioni Green Open Hardware

1. **Supermicro Green Technological Factory**
2. **Tecnologie Define Software – alcuni esempi**
3. **5G and Edge Computing**



Supermicro fabbrica tecnologica

- **1.5M Server / Storage and Sub-systems** shipped in 2018
- **10%** approximate market share by volume
- **8 Production** factories worldwide
- **3M units** per year in the mid-term
- **Plug and Play** complete rack solutions

Supermicro fabbrica «Green»



I punti di forza della proposta Supermicro

- Ecosistema Completo per Esigenze di Cloud e Datacenter
- Innovazione Tecnologica
- Time-to-Market dei Prodotti
- Sistemi Configure To Order
- Performance per Watt
- Performance per Mq.
- Performance per Costo totale

Broadest Solutions Portfolio



Broadest Portfolio

- Vertical Integration and Building Block Architecture enable Industry's Broadest Portfolio

Workload Optimized Building Block Designs

- Massive choice enables virtual workload optimized system design

Innovation Enabled

- Building Block Architecture ensures innovation across entire portfolio

**Rack Mount
UP/DP/MP Servers**

Ultra



WIO



DCO



Mainstream



**Multi-Node
Twin Architecture**



Twin, TwinPro
TwinSIOM

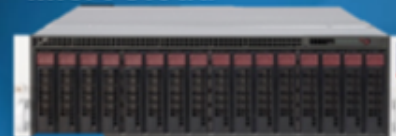


FatTwin



**Multi-Node
Blade Architecture**

MicroCloud



MicroBlade



SuperBlade



**High-End
MP Servers**



4-Way



8-Way



GPU

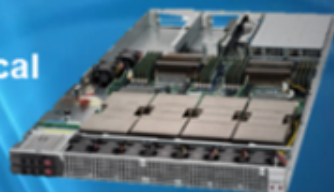
4-GPU 1U



KNL Twin



Pascal



High-End GPU



Storage/JBOD NVME and SAS3

Simply Double



Double
Sided



60-Bay

90-Bay



Cold Storage



Desktop Workstation Gaming

Desktop



Gaming PC



WorkStation

Small Form Factor

IoT Gateway

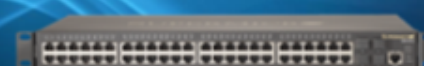


Box PC

Mini Tower



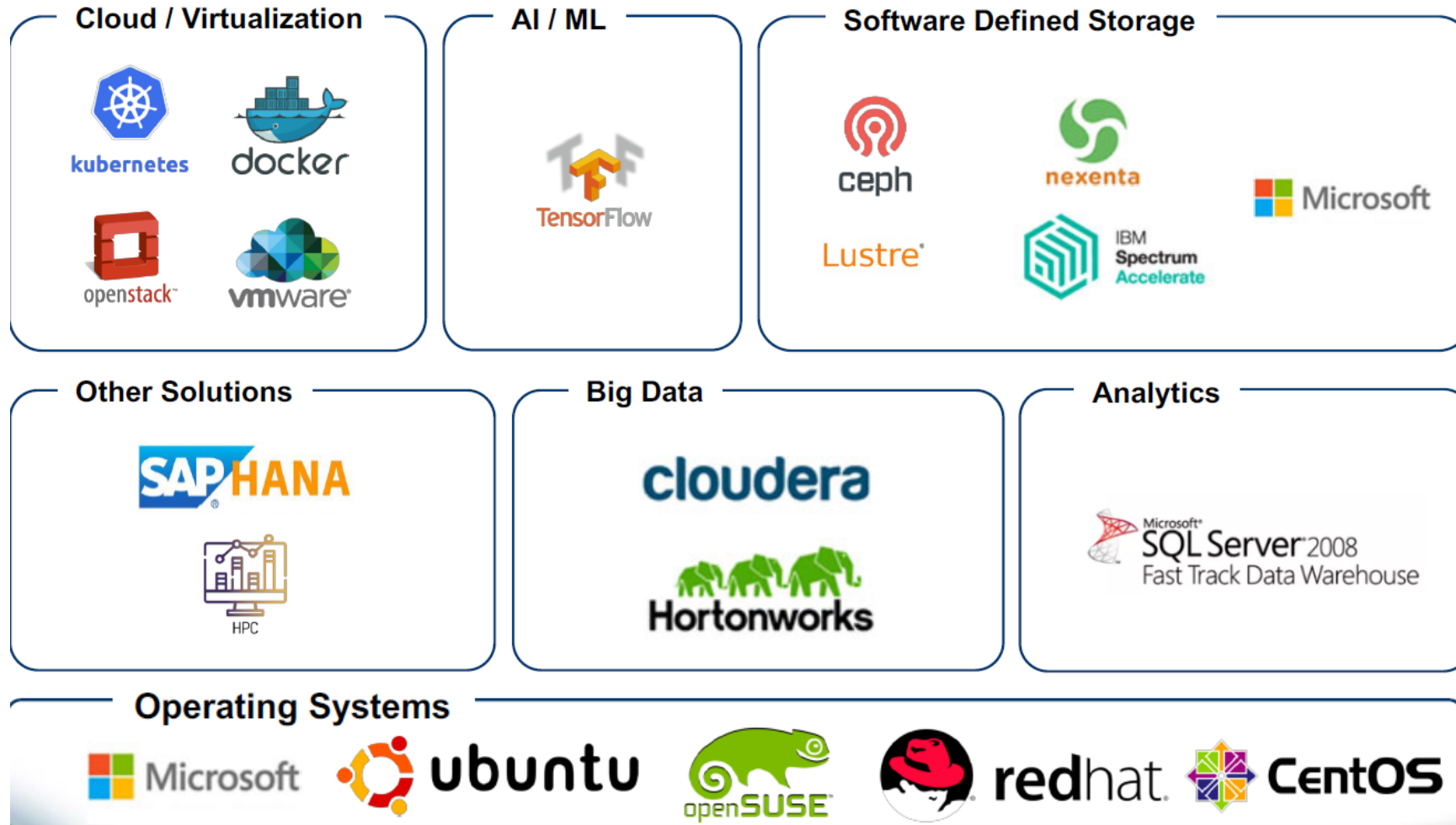
ToR Switches L2/L3 1/10/40/100G



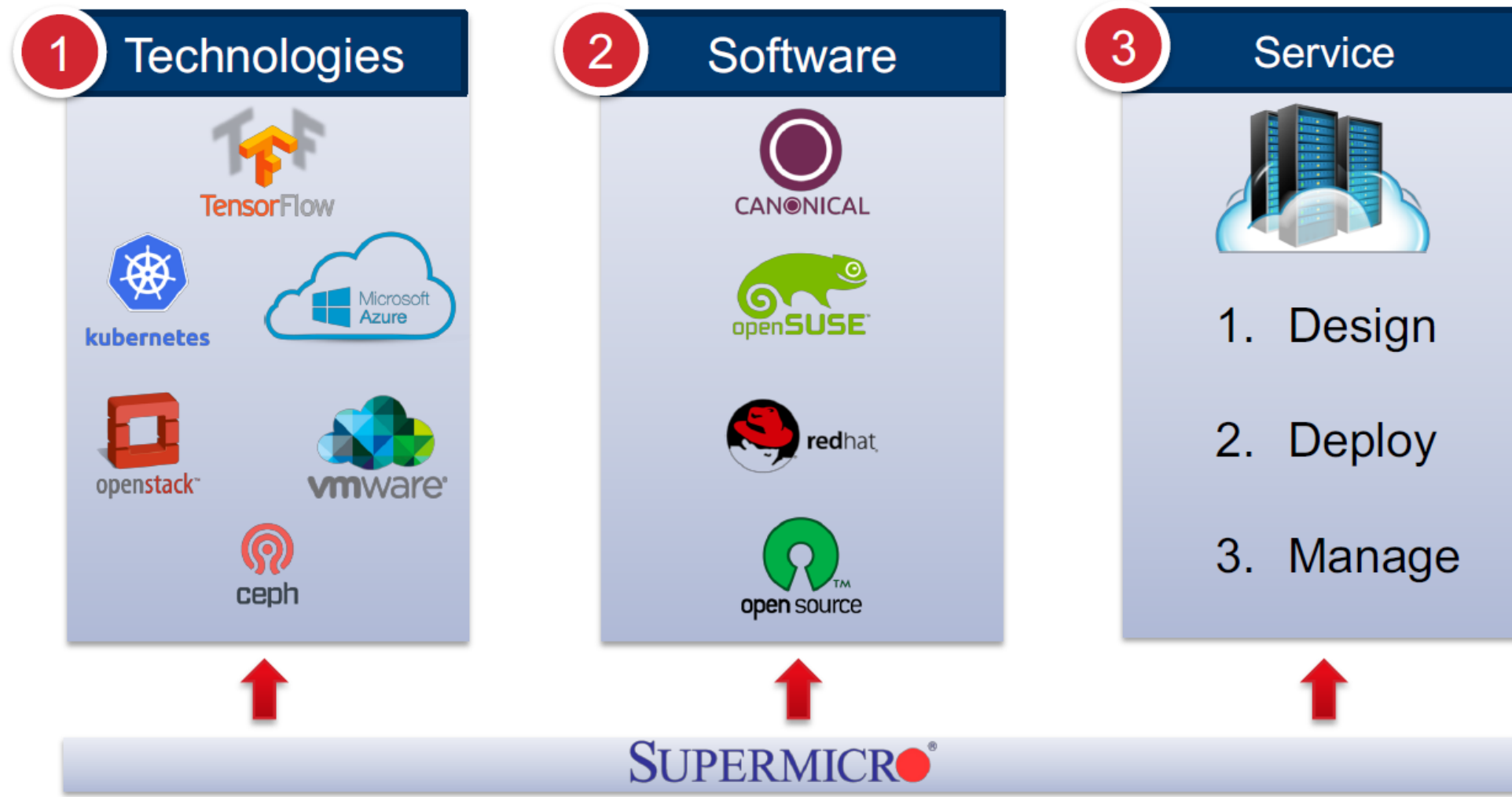
System Management Tools



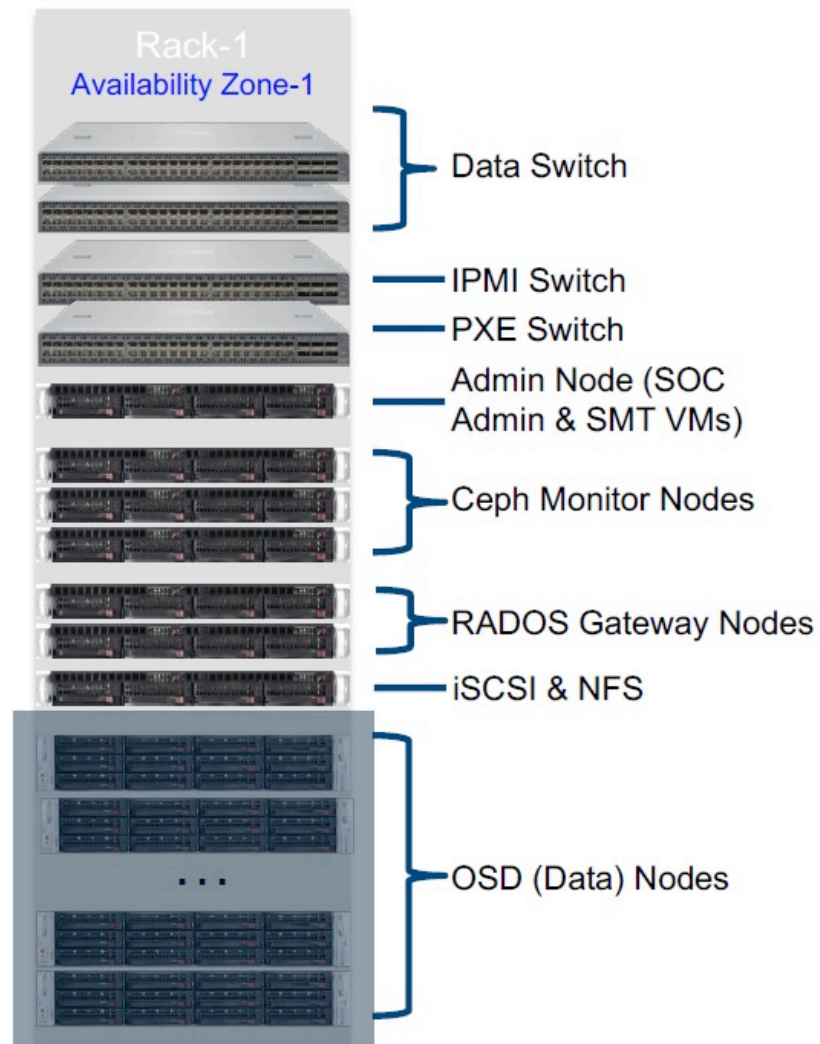
Supermicro Solutions Alliance



Soluzioni per il Cloud e il Datacenter

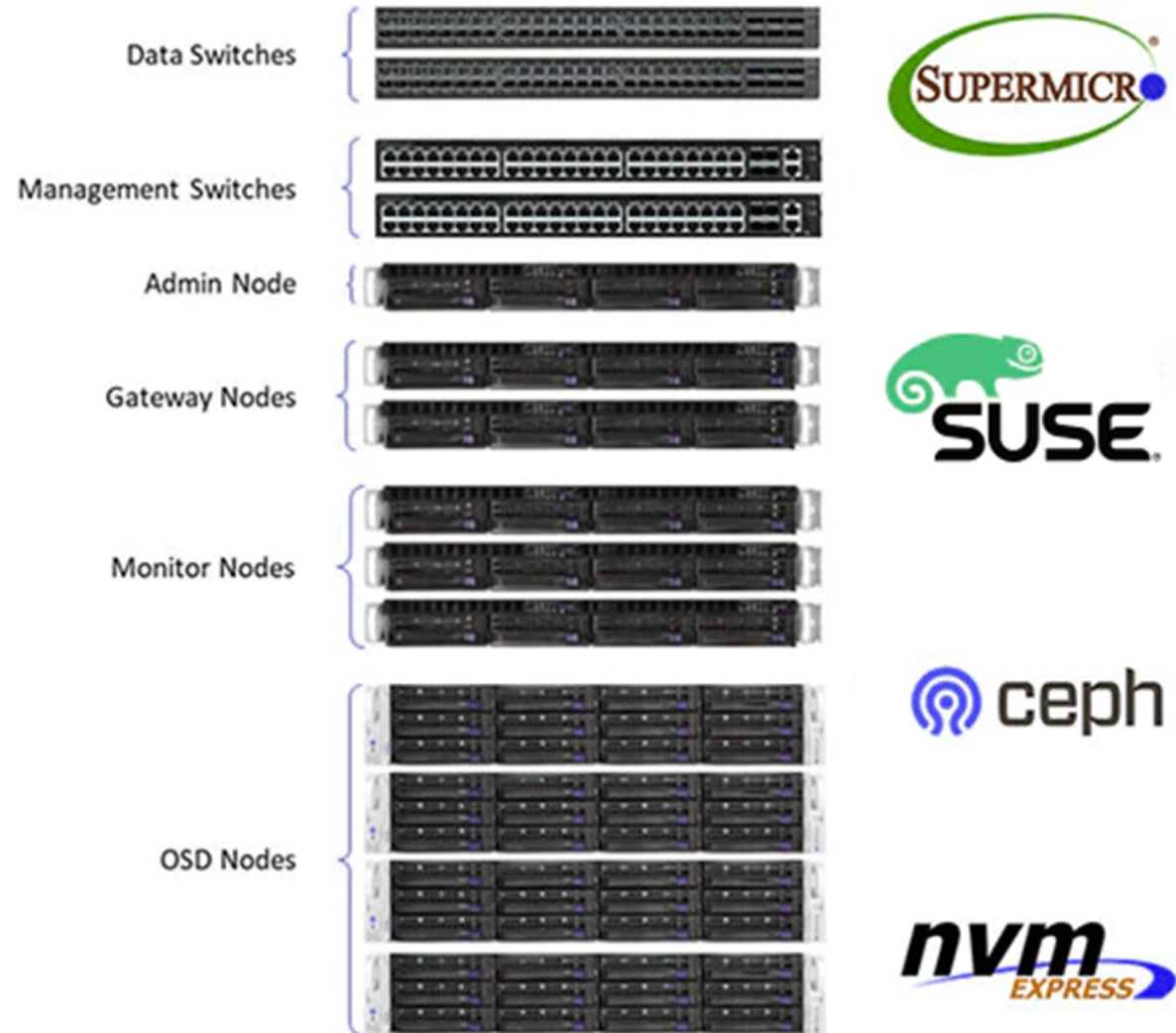


Supermicro Total Solution for Red Hat Ceph



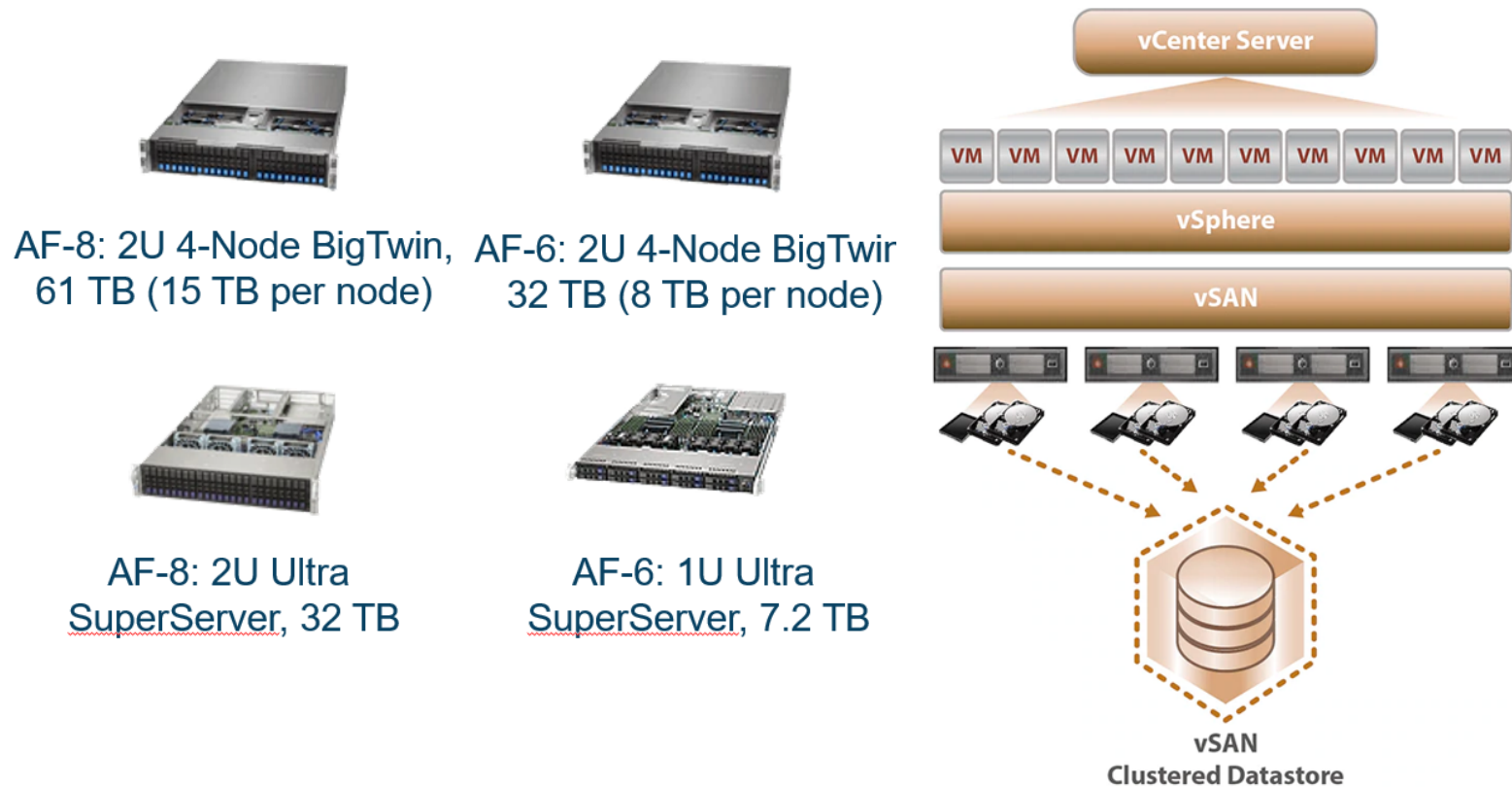
- **Admin Nodes**
 - ❖ Host two VMs (SOC Admin & SMT)
 - ❖ SYS-5018R-S0ADS
- **CEPH Monitor Nodes**
 - ❖ SYS-5018R-S0ADS - 3 nodes in 1U form factor
- **RADOS Gateway Nodes**
 - ❖ SYS-5018R-S0ADS - 2 nodes in 1U form factor
- **iSCSI & NFS Node**
 - ❖ SYS-5018R-S0ADS - 1 node in 1U form factor
- **Networking ToR Switches**
 - ❖ 2 switch(s) SSE-X3348S 48 10G ports for data
 - ❖ 2 SSE-G3648B 48 1G ports for IPMI PXE

Supermicro Total Solution for SUSE Ceph



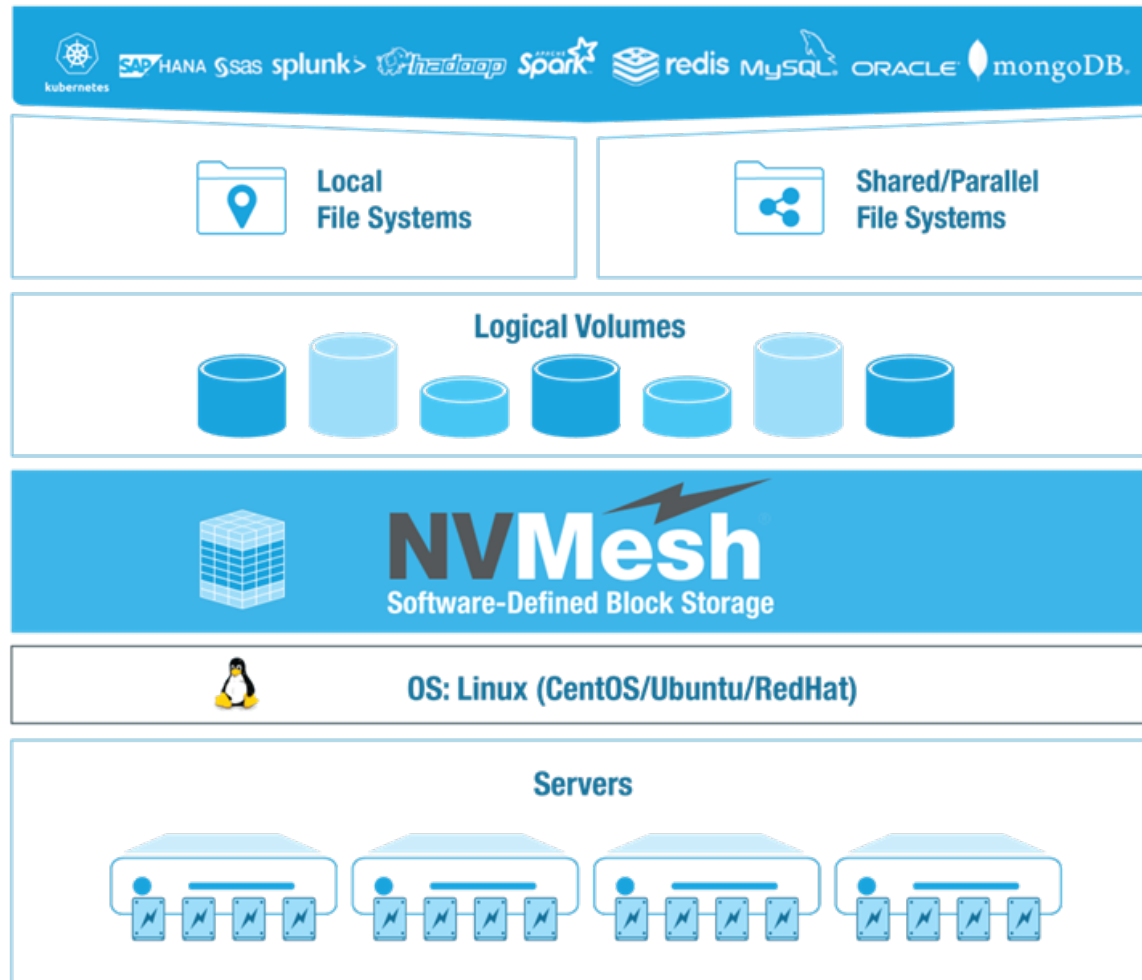
- Validated reference architectures
- SUSE Yes certified components
- Faster and more efficient with BlueStoreObject Store
- Easier to manage with Nextgen openATTIC and DeepSea

Supermicro Total Solution for VSAN Enterprise Storage



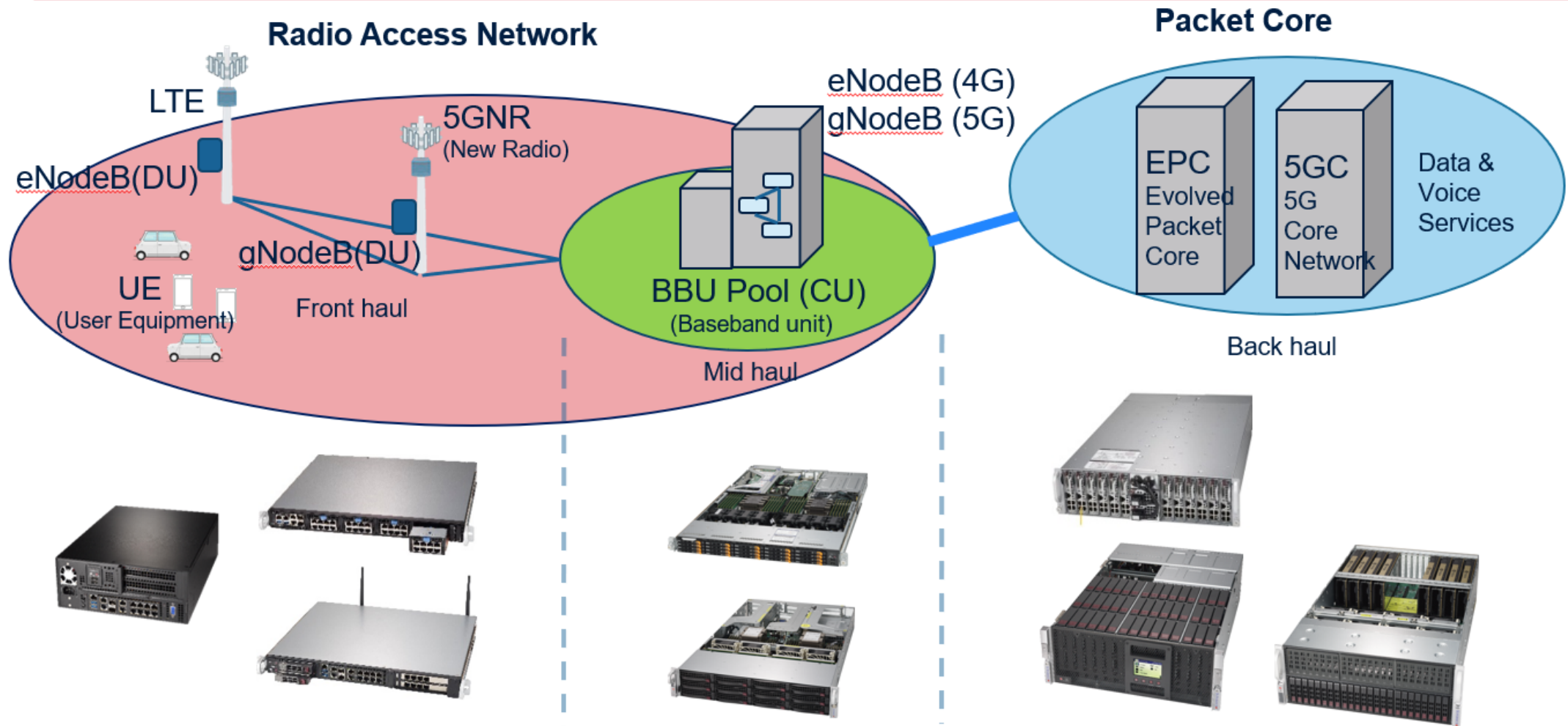
- vSAN ReadyNode is a preconfigured single-node or multi-node server
- vSAN certified components
- high performance storage tier optimized for enterprise-class virtual environments
- Enterprises ROBO and SMBs to efficiently grow

Supermicro Excelero/NVMesh Storage Solutions



- Low-latency distributed block storage solution for web-scale applications
- Maximize the utilization of NVMe SSDs
- Predictable application performance
- Supports standard hardware & protocols
- Use as block storage or with any file system
- Easy to manage & monitor

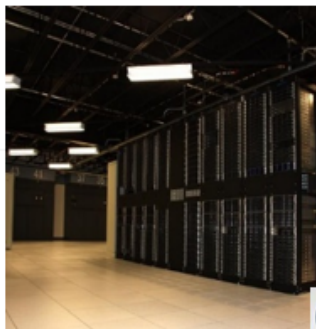
5G Edge Computing: Architecture



SOFTLAYER



- 7 DCs
- ~ 80.000 nodes Supermicro

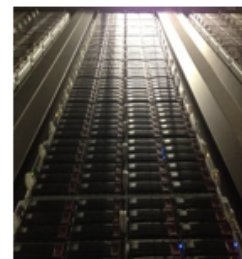


Dropbox

- **Application:** Online Backup
- **Quantity:** 1,200 nodes shipped
- **FatTwin**

SGX
SINGAPORE EXCHANGE

- **Application:** Online stock trading engine, linked to major stock trading data centers in New York, Chicago, London & Tokyo
- **Systems :** 2U Twin 4-Node QDR solution 3000 nodes in single deployment, 36000-Core in total



YAHOO! JAPAN

- >15,000 nodes over 2.5 years
- Search, Indexing, Big Data / Hadoop



Baidu

- ~ 70.000 nodes Supermicro
- Data Center & Engine Search



2U Twin² DCO server



Building Clouds

With Supermicro
Solutions,
building Cloud is
very simple !!!





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Thank you

Enzo Romeo Marro

Sales Manager Italia



enzom@supermicro.com



39 392 9660120



www.supermicro.com