

**DELL** Technologies / Forum

# REAL TRANSFORMATION

GLOBAL SPONSORS



# The Next Generation of PowerEdge Servers, Featuring AMD

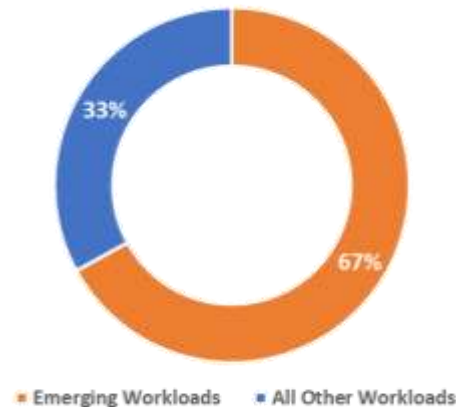
**Tim Loake**

**Vice President – UK&I  
Dell Technologies | Infrastructure Solutions Group**



**Multi-Cloud Agility**  
requires  
**Right Workloads**  
matched with  
**Right IT**  
**infrastructure**

**Multi-cloud deployments  
are the norm**



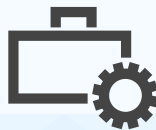
**2/3 of new server installations are being used for emerging workloads (AI, ML, DL, Data Analytics, IOT, etc.)**

Surveyed global IT Decision Makers Base Sample: 480  
Source: Dell EMC Market Research, December 2018

# Innovations required on multiple fronts across diverse workloads in the **multi-cloud** environment



**Effortless Management**



**Dynamic W/L Optimized Scaling**



**Robust Security**



**Lower TCO**



**Larger Bandwidth Capacity**

**TOP FACTORS DRIVING WORKLOAD PLACEMENT**

**SECURITY**

**COMPLIANCE**

**COST**

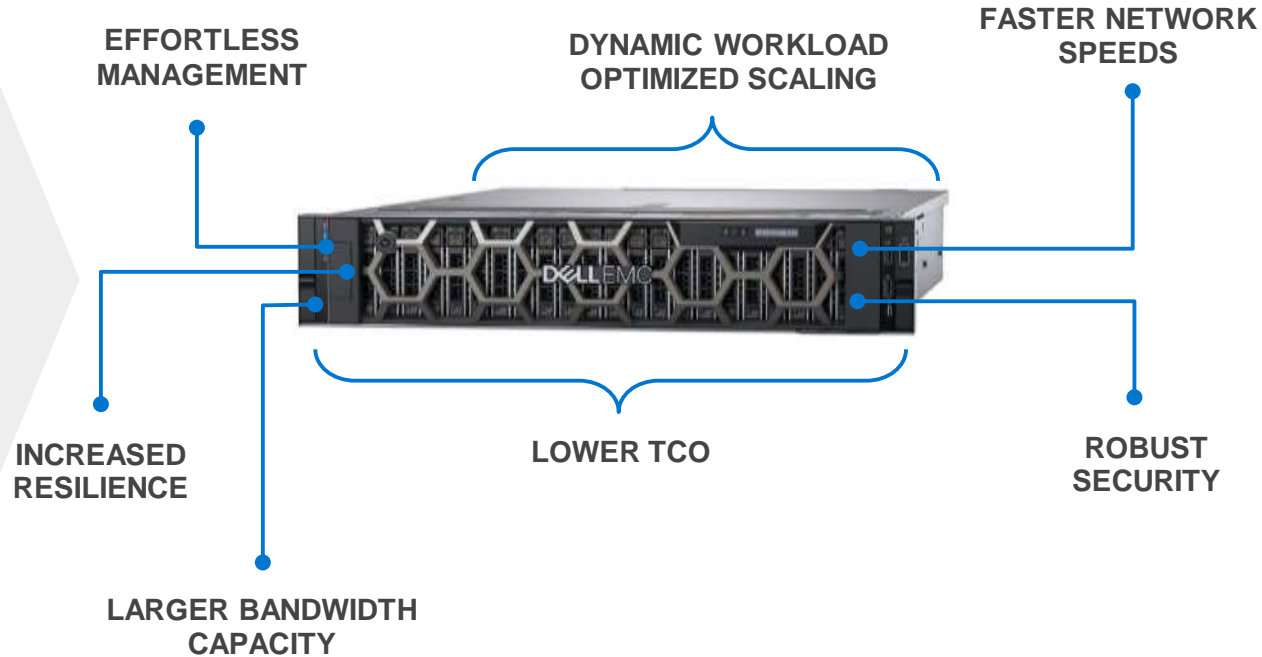
**LATENCY**

**CONTROL**

# Introducing – The new PowerEdge Servers

*Innovations designed to enable better business outcomes*

SERVER PLATFORMS  
**REIMAGINED**  
&  
**REDESIGNED**  
FOR  
MULTI-CLOUD  
ENVIRONMENT



# The new PowerEdge server innovations address key business priorities



## Accelerate Performance

**100%**<sup>1</sup> more processing cores and faster data transfer speeds with PCIe Gen 4

**20%**<sup>1</sup> **faster** memory speed to reduce latency and deliver faster response

**2X**<sup>1</sup> PCIe performance with Gen4 at 16GT/s to overcome bottlenecks



## Manage Effortlessly

Up to **96%**<sup>2</sup> reduction in deployment time through automation capabilities in OpenManage system management solutions

Easy BIOS tuning with workload-optimized server configuration profiles

**56%**<sup>3</sup> improvement in data center cooling power utilization efficiency (cooling **PUE**)



## Integrated end-to-end security

Secure data at rest with OpenManage Secure Enterprise Key Manager and AMD Secure Memory Encryption (**SME**)

Maintain enterprise-wide security with automated firmware and compliance drift detection with iDRAC and OpenManage Enterprise

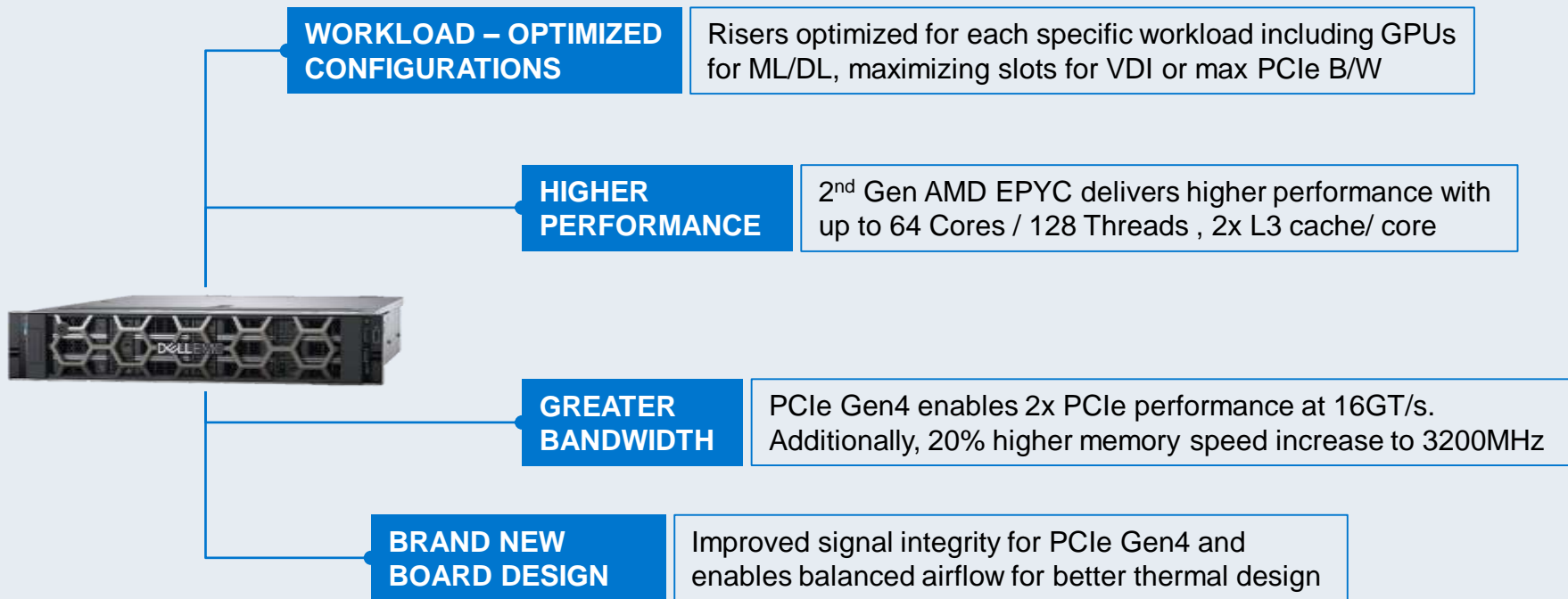
**509** unique keys -Secure Encrypted Virtualization (**SEV**)

<sup>1</sup> Based on Dell EMC Internal Analysis; versus comparable Dell EMC PowerEdge Servers with AMD Naples configurations

<sup>2</sup> Based on Dell EMC Internal Analysis; PowerEdge OpenManage vs. manual deployment

<sup>3</sup> Based on Dell EMC Internal Analysis

# Accelerating Performance



# Manage Effortlessly



## INTELLIGENT POWER MANAGEMENT

Streamline power management with the latest OpenManage Enterprise plug-in architecture

## iDRAC9

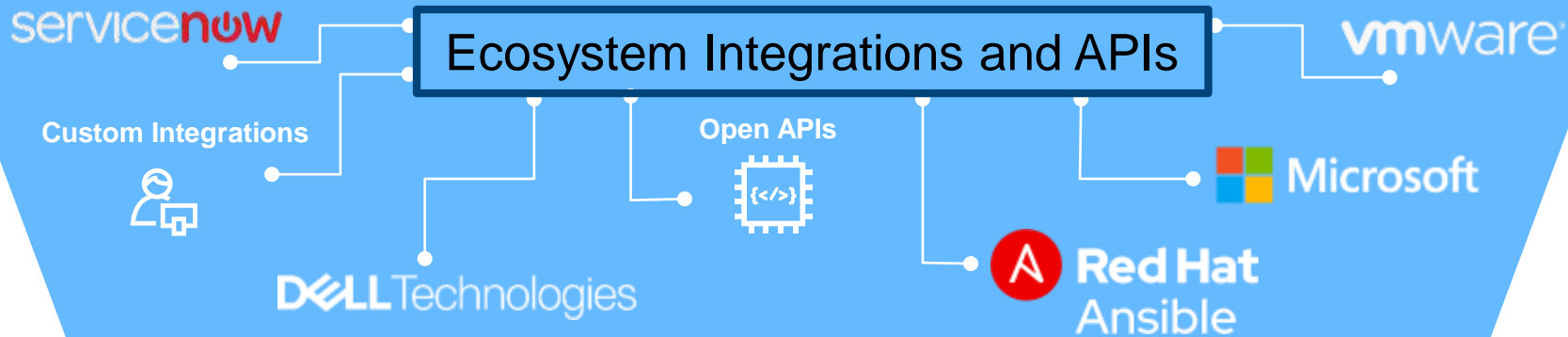
4x faster user experience vs. previous generation including support for PCIe Gen4

## AUTOMATED COOLING

Multi-vector cooling that is automatically guided on to the hottest parts of the server



# Enhanced management agility **on-premises** and in the **cloud**



**iDRAC +  
OpenManage  
Enterprise  
Innovations**

  
Cluster/vSAN  
aware updates

  
Server  
Configuration  
Profiles

  
Authenticated  
updates

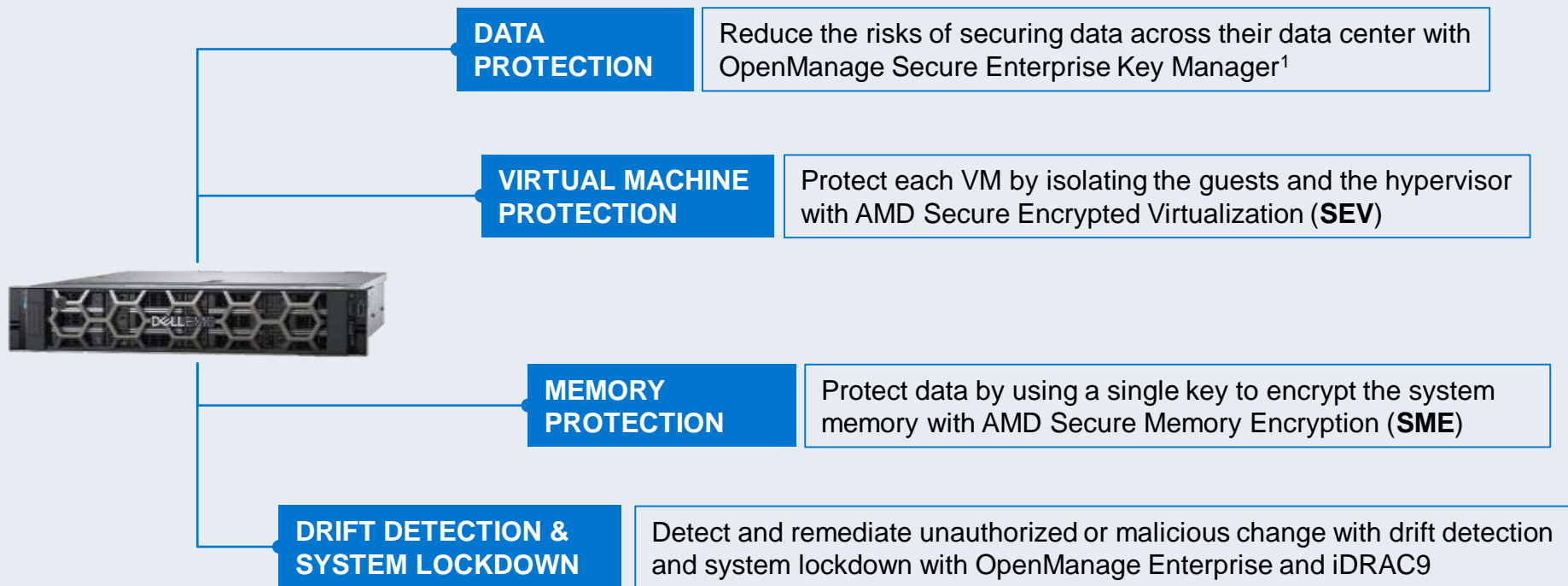
  
Configuration  
and firmware  
drift detection

  
Health/security  
monitoring

**PowerEdge Servers**



# Robust end-to-end integrated security



1. OpenManage Secure Enterprise Key Manager will be available on R6515 and R7515 in December 2019

# Expanding the New Dell EMC PowerEdge Servers

with the 2<sup>nd</sup> Generation AMD EPYC™

BRAND NEW



## R6515

Single-socket 1U rack server brings peak performance and excellent TCO

## R7515

Highly scalable 2U rack server delivers performance and outstanding TCO

## R6525

Highly configurable 1U rack server delivers outstanding balanced performance for dense compute

## R7525

Highly adaptable 2U rack server brings powerful performance and flexible configuration

## C6525

Compute-dense server sled accelerates data center performance to tackle diverse HPC applications

### 1S RACKS

### 2S RACKS

### C-SERIES

HPC & DATA ANALYTICS

VIRTUALIZATION & VDI

SDS

SDS

# Target Workloads and Solutions

	Data Analytics	SDS	HPC	Virtualization & VDI	NFV
workloads	<ul style="list-style-type: none"> <li>High core count for complex analysis</li> <li>Massive I/O bandwidth for faster data loading</li> <li>Fast memory and high bandwidth for better performance with in-memory databases</li> <li>Security for business critical data</li> </ul>	<ul style="list-style-type: none"> <li>NVMe Direct for lowest latency storage</li> <li>More memory for larger cache</li> <li>Memory encryption for data security</li> <li>Single-Socket licensing enables large TCO advantages</li> </ul>	<ul style="list-style-type: none"> <li>High core count CPUs optimize compute performance</li> <li>Faster Gen4 I/O for cluster connectivity</li> <li>Memory capacity for large datasets</li> <li>Massive I/O bandwidth for NVMe with GPUs</li> </ul>	<ul style="list-style-type: none"> <li>Higher CPU core count to enable richer user sessions for VDI</li> <li>Large memory bandwidth, high core count with Gen 4 I/O provides increased VM Density</li> <li>Cryptographic isolation between hypervisor and VM</li> </ul>	<ul style="list-style-type: none"> <li>Gen4 I/O provides best networking performance and bandwidth</li> <li>Memory and VM encryption for business critical data</li> <li>Large I/O bandwidth enables high performing network VMs</li> </ul>
solutions	<ul style="list-style-type: none"> <li>Hadoop Ready Sol.</li> <li>Apache Spark</li> <li>TensorFlow</li> </ul>	<ul style="list-style-type: none"> <li>Azure Stack HCI Ready Node</li> <li>vSAN Ready Node</li> <li>VxRail</li> </ul>	<ul style="list-style-type: none"> <li>Digital Mfg.</li> <li>Life Sciences</li> <li>Research</li> </ul>	<ul style="list-style-type: none"> <li>VDI Ref. Architecture</li> <li>Horizon</li> <li>Dassault Sys.</li> <li>Autodesk</li> </ul>	<ul style="list-style-type: none"> <li>OpenStack</li> </ul>
	R7515, R7525	R6515, R7515 R7525	R6525, C6525	R6515, R7515 R6525, R7525	R6515, R7525

# SINGLE SOCKET LEADERSHIP

1S AMD EPYC™ MATCHES PERFORMANCE OF 2S INTEL STACK UP TO XEON® PLATINUM 8280M

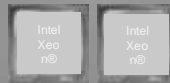
SPEC RATE @ 2017 INT. PEAK



INTEL STACKS DO NOT INCLUDE XEON PLATINUM 9200 SERIES



1S Intel® Xeon®  
PRODUCT STACK

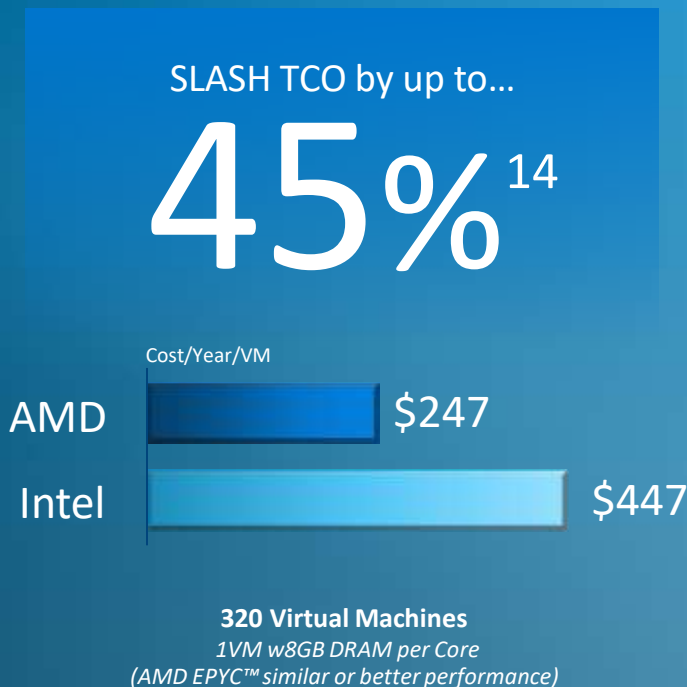
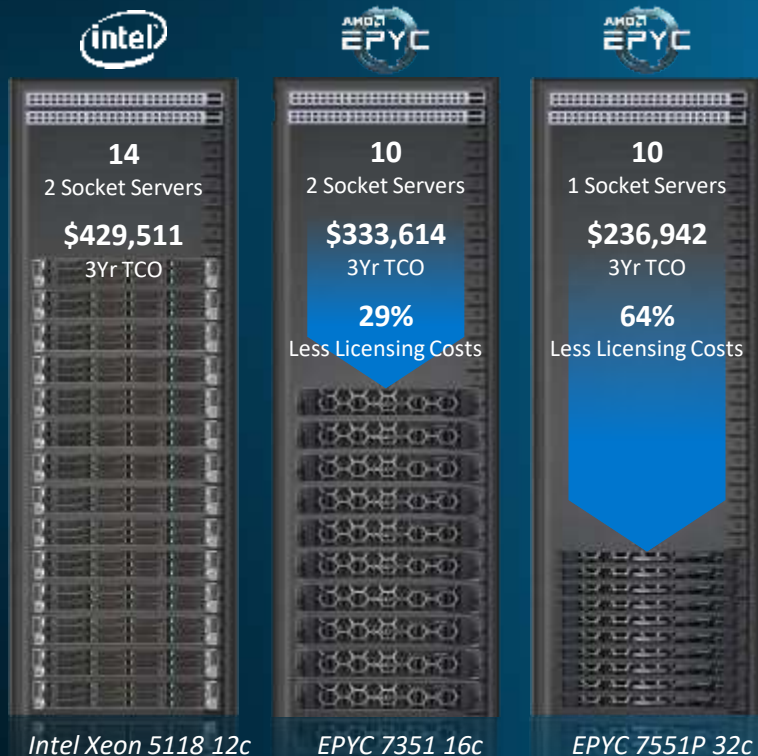


2S Intel® Xeon®  
PRODUCT STACK



1S AMD EPYC™  
PRODUCT STACK

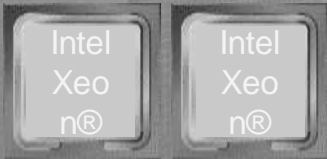
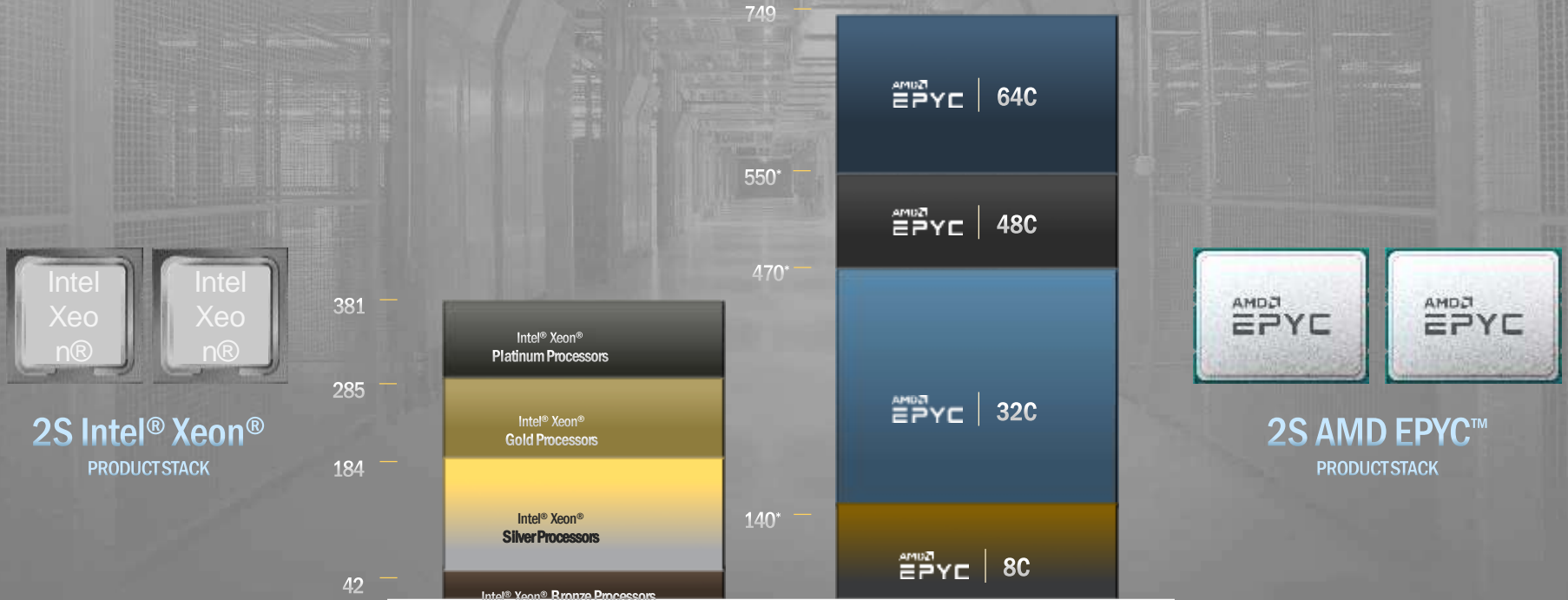
# AMD EPYC™ FOR VIRTUALIZATION AND CLOUD



# TWO SOCKET LEADERSHIP

## 2S INTEL® XEON® vs. 2S AMD EPYC™ SPEC CPU® 2017 PERFORMANCE

SPEC RATE@2017 INT PEAK



2S Intel® Xeon®  
PRODUCT STACK



2S AMD EPYC™  
PRODUCT STACK

INTEL STACK DOES NOT INCLUDE XEON PLATINUM 9200 SERIES

\*ESTIMATED. SEE ENDNOTE ROM-258

# Intel Cascade Lake / AMD Rome

	INTEL Cascade Lake	AMD ROME
1S Rich	No	Yes
Transistor size	14nm	7nm (lower power usage)
CPU I/O (2S) PCIe	96 lanes / gen 3	128 lanes / gen 4 x 2 speed
Max Core Count per socket	28	64
Memory Channels per socket	6	8
New AI CPU Instructions	AVX512 new AI//ML "VNNI"	No additional instructions
NUMA domains in Socket	1	1
Storage Class Memory	Optane DC persistent memory (code name "AEP" Apache Pass)	None





# To Rome, or not to Rome?

Requirement	INTEL Cascade Lake	AMD ROME
Expand Existing Virtual Environment	Yes	No
New Virtual Environment	Yes	Yes (lower \$/VM than Intel)
Artificial Intelligence / GPU workloads – PCIe Gen 4	No	Yes
Artificial Intelligence codes taking advantage of VNNI	Yes	No
High Performance Compute – Max core count and throughput	No	Yes
HPC code optimised by AVX512	Yes	No
Extremely large memory spaces – e.g SAP HANA	Yes	Not optimal

# ROME AT A GLANCE

BUILT UPON THE SOLID FOUNDATION OF EPYC 7000 WITH ADDITIONAL FEATURE AND SOCKET COMPATIBILITY

## Compute Core Die (CCD)

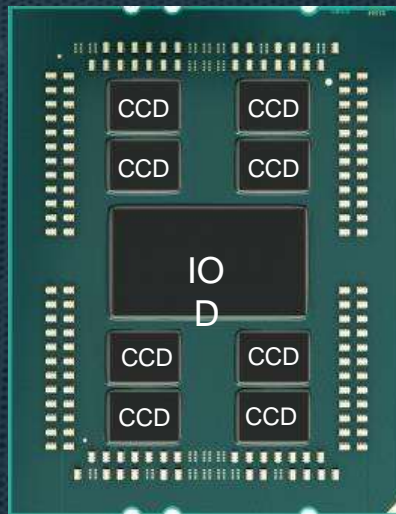
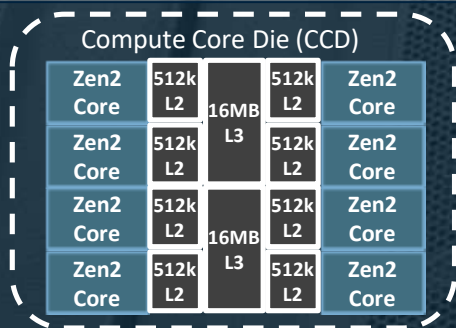
### COMPUTE

Up to 2x AMD “Zen2” x86 cores  
(64 core / 128 threads)  
2x FLOPs per cycle per core

Up to 4x shared L3 cache (256MB)  
Up to 2x L3 cache per core (16MB per  
4 cores)

Reduced System Diameter (NUMA  
domain)

TDP range: 120W-225W\*



## IO Die (IOD)

### MEMORY

First x86 Server Processor with  
DDR4-3200\*

RDIMM, LRDIMM, 3DS, NVDIMM

2 DIMMs/channel capacity of  
4TB/socket (256GB DIMMs)

### INTEGRATED I/O – NO CHIPSET

128 lanes PCIe Gen3/4\*

- Used for PCIe, SATA, and Coherent Interconnect
- Up to 32 SATA or NVMe devices

Server Controller Hub  
(USB, UART, SPI, LPC, I2C, etc.)

### SECURITY

Dedicated Security Subsystem

Hardware Root-of-Trust

Additional Security enhancement

\*Motherboard update required to support  
higher data rate

DELL EMC PowerEdge

# Rome Product Stack



Model No.	1P model No.	TDP (W)	Cores	Threads	Base Freq (Ghz)	Max. Boost Freq** (Ghz)	L3 Cache (MB)	DDR Channels	Max DDR Freq (1DPC)	PCIe	Wave
7742	-	225	64	128	2.25	3.40	256	8	3200	x128	1
7702	7702P	200	64	128	2.00	3.35	256	8	3200	x128	1
7642	-	225	48	96	2.30	3.30	256	8	3200	x128	2
7552	-	200	48	96	2.20	3.30	192	8	3200	x128	2
7542	-	225	32	64	2.90	3.40	128	8	3200	x128	2
7502	7502P	180	32	64	2.50	3.35	128	8	3200	x128	1
7452	-	155	32	64	2.35	3.35	128	8	3200	x128	1
7402	7402P	180	24	48	2.80	3.35	128	8	3200	x128	1
7352	-	155	24	48	2.30	3.20	128	8	3200	x128	2
7302	7302P	155	16	32	3.00	3.30	128	8	3200	x128	1
7282	-	120	16	32	2.80	3.20	64	8*	2666*	x128	2
7272	-	120	12	24	2.90	3.20	64	8*	2666*	X128	2
7262	-	155	8	16	3.20	3.40	128	8	3200	x128	1
7252	7252P	120	8	16	3.10	3.20	64	8*	2666*	x128	2

\*8 channel and 3200 capable, Performance Optimized for 4 channels @ 2666

\*\*The maximum single-core frequency at which the processor is capable of operating.

# Bedrock of the Modern Data Center

Accelerate Performance



Manage Effortlessly



Integrated End-to-End Security

# #1

World's  
Server Portfolio  
**PowerEdge**

Source: IDC Quarterly Server Tracker, Q1 2019

**DELL**EMC PowerEdge

# Backup

# CHIPLETS EVOLVED – HYBRID MULTI-DIE ARCHITECTURE



Use the Most Advanced Technology  
Where it is Needed Most

Each IP in its Optimal Technology,  
2<sup>nd</sup> Gen Infinity Fabric™ Connected

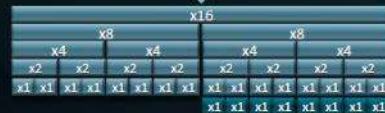
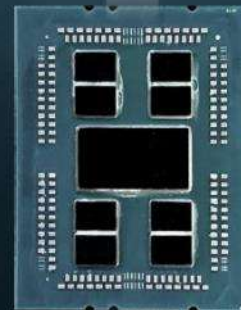
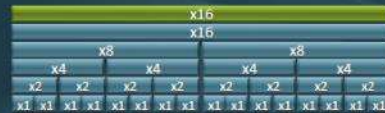
Centralized I/O Die  
Improves NUMA

Superior Technology for  
CPU Performance and Power

# EPYC™ 7002 SERIES I/O SUBSYSTEM

- ▲ All 8 x16 links PCIe® Gen4 ready
  - 64GB/s bi-dir bandwidth per link, 512GB/s per socket
- ▲ 8 x16 links available per CPU, IOMMU support
- ▲ Link bifurcation support; max of 8 PCIe devices per x16
- ▲ Full PCIe Peer-to-Peer (P2P) support, within-socket, across-socket
  - Up-to 256B P2P payload size
  - Up-to 512B Direct-Memory-Access (DMA) payload size
- ▲ I/O Die AMD Infinity Fabric™ optimized for DMA and P2P traffic
- ▲ All links available for I/O in 1 socket platforms
- ▲ New 2 socket platform options with up to 162L of PCIe Connectivity

**LEADERSHIP PCIE GEN4 I/O CAPABILITIES AND CONNECTIVITY WITH EPYC  
PROVISIONED BANDWIDTH FOR PERFORMANCE SCALING**

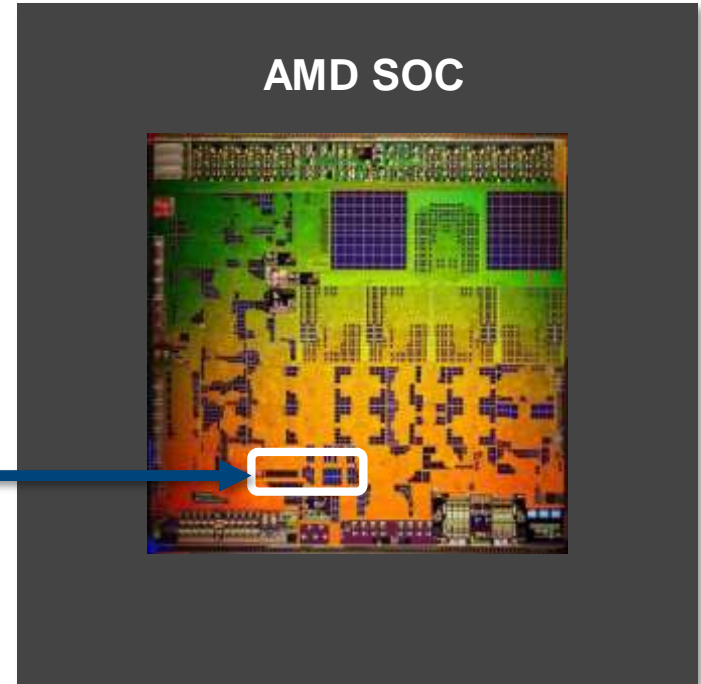
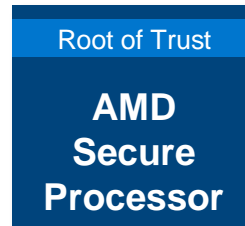


# AMD Secure Processor



## A Dedicated Security Subsystem

- AMD Secure Processor integrated within SoC
  - 32-bit microcontroller (ARM Cortex-A5)
- Runs a secure OS/kernel
- Secure off-chip NV storage for firmware and data (i.e. SPI ROM)
- Provides cryptographic functionality for secure key generation and key management
- Enables hardware validated boot





# EPYC Memory Encryption - Overview



## AES-128 engine in the memory controller

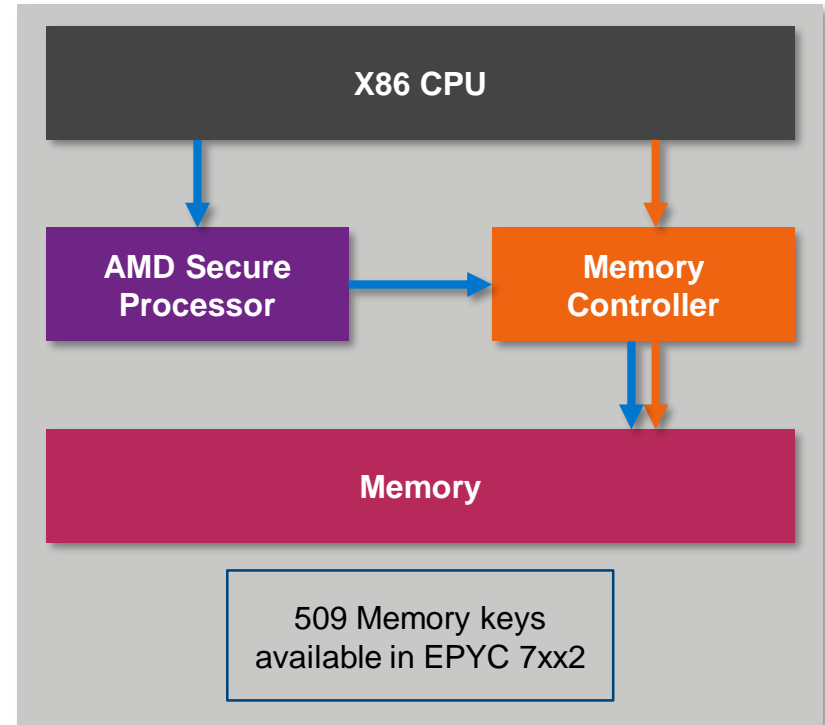
- Encryption keys managed by the AMD Secure Processor / not visible to the x86
- Guest OS chooses pages to encrypt via page tables
- No changes to end user applications

## AMD Secure Memory Encryption (SME)

- All memory encrypted by single key
- Can be implemented in BIOS (Transparent SME / TSME)

## AMD Secure Encrypted Virtualization (SEV)

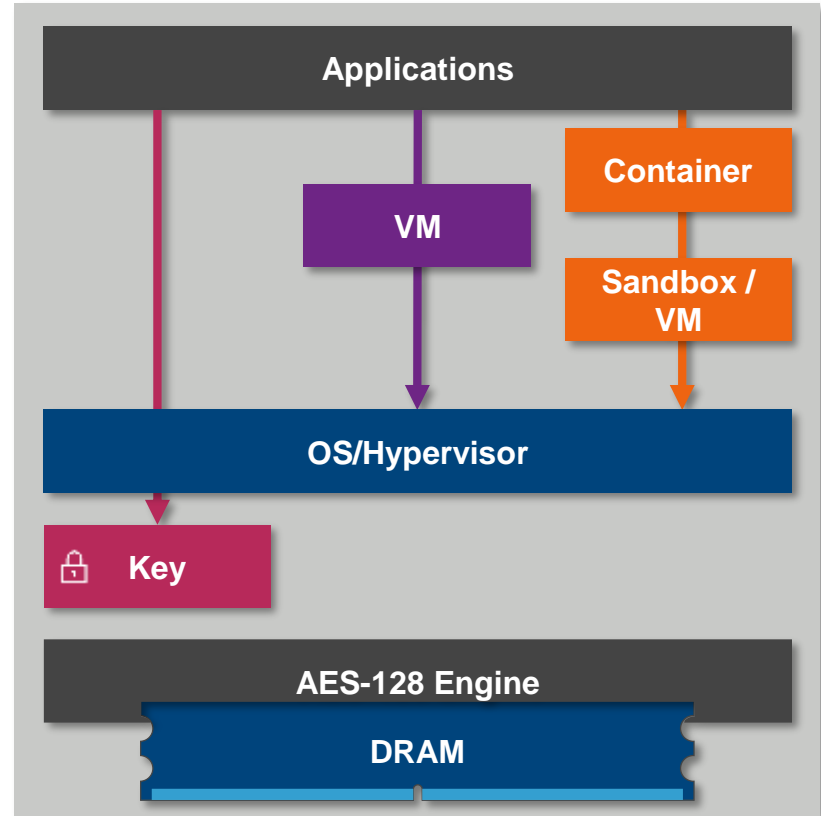
- Active encryption key selected by Virtual Machine ID
- Hypervisor and Guest VMs cryptographically isolated from one another



# Secure Memory Encryption (SME)



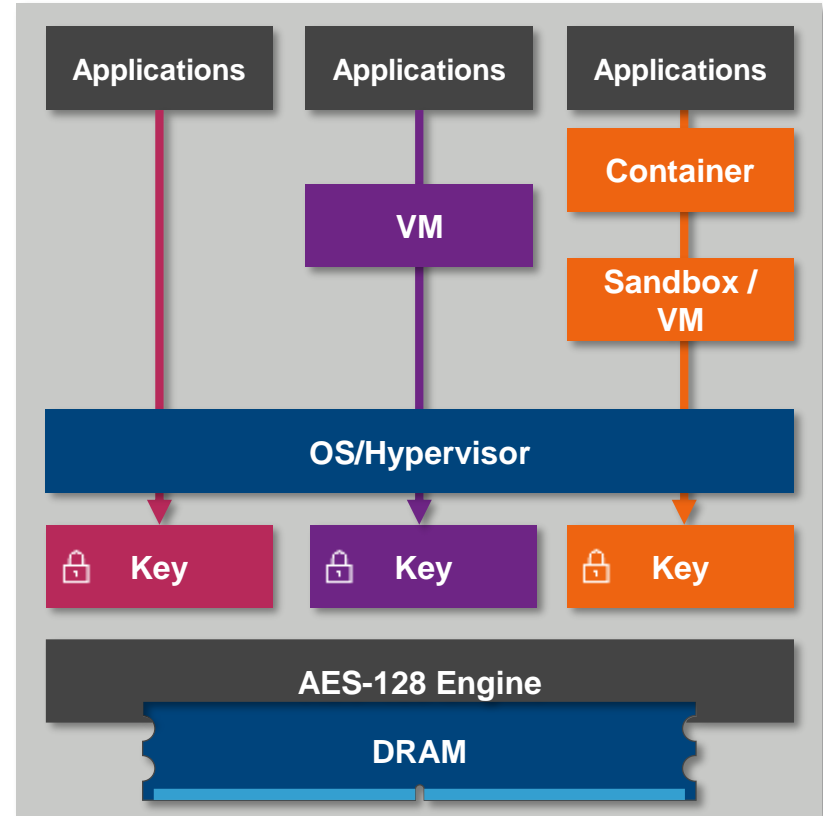
- Helps protect against physical memory attacks
- Single key is used for encryption of system memory
  - Can be used on systems with VMs or Containers
- OS/Hypervisor chooses pages to encrypt via page tables
- Support for hardware devices (network, storage, graphics cards) to access encrypted pages seamlessly through DMA



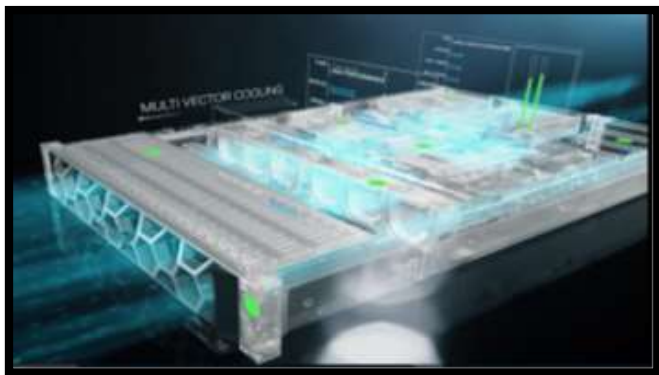
# Secure Encrypted Virtualization (SEV)



- Helps protect VMS from each other, administrator tampering, and untrusted Hypervisor
- One key for Hypervisor and one key per VM, groups of VMs, or VM/Sandbox with multiple Containers
- Cryptographically isolates the hypervisor from the guest VMS
- Integrates with existing AMD-V technology
- System can also run unsecure VMs
- EPYC 7002 Series: Adds Virtual-transparent-encryption capability to facilitate unmodified guest VM support

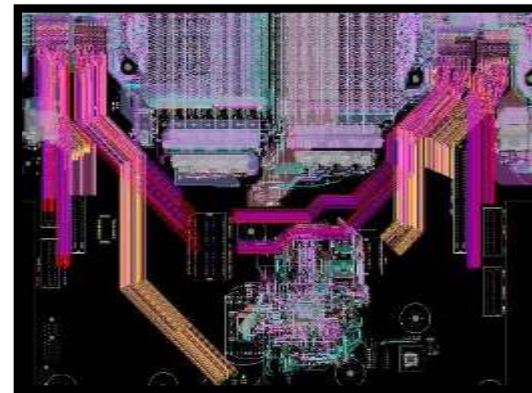


# Balanced System Board Design



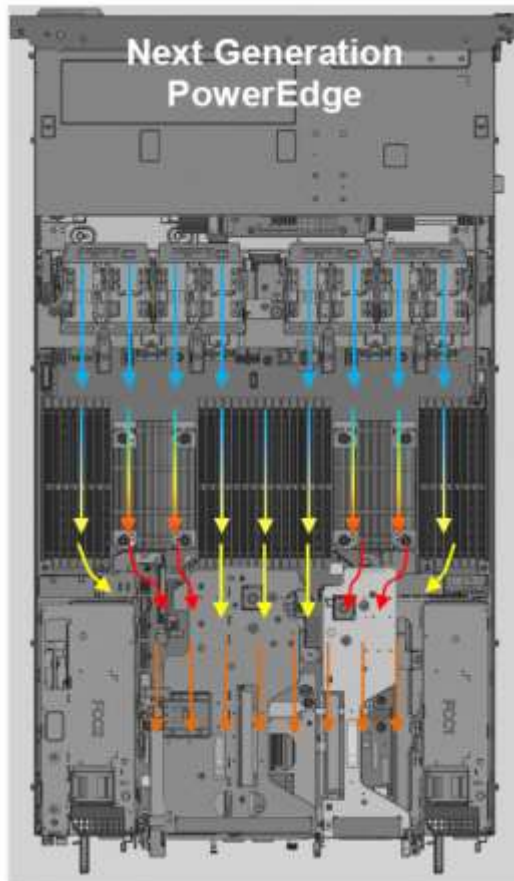
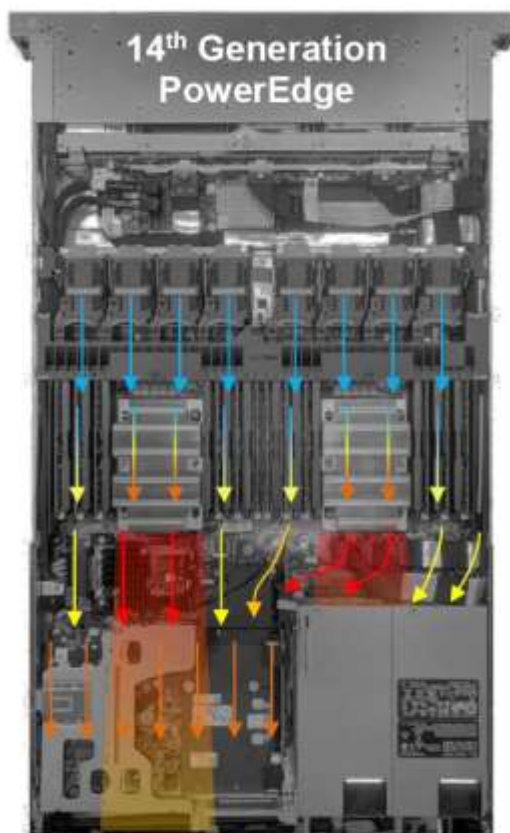
Balanced airflow provides better thermals for workloads requiring rich configurations

- CPU TDPs up to **240W**
- Multiple GPUs up to **300W**
- High mem capacities – up to **32 LRDIMMs**







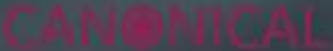

Improved signal integrity for PCIe Gen4 at 2X the speed of Gen3 – 16GT/s

# T-Bar Power Supply Design



# Optimised Ecosystem

## LEADERSHIP ECOSYSTEM READINESS

	N - 1	Launch (N)
 Microsoft	Server 2016	Server 2019
 vmware	vSphere 6.5x	vSphere 6.7x
 redhat	RHEL 7.6	RHEL 8.0
 SUSE	SLES 12 SP4	SLES 15.x
 CANONICAL	Ubuntu 16.04.x	Ubuntu 18.04.x
 CITRIX	XenServer 7.1 LTS	XenServer 2019

# Dell EMC PowerEdge R6515

1-socket server that performs like a 2-socket



**SINGLE-SOCKET RACK SERVER BRINGS PEAK PERFORMANCE AND EXCELLENT TCO**

## VIRTUALIZATION



Improved TCO with VM density and SQL performance improvements

## HCI



High parallelism for low latency on ROBO VxRail and Dense Azure Stack HCI

## NFV



OpenStack Ready Architecture applicable for Telco

# Dell EMC PowerEdge R6515 – Tech Specs

## Features PowerEdge R6515

**CPU** 1x AMD Rome/Milan (Socket SP3), up to 240W (cTDP)

**Memory** **DDR4:** Up to 16 x DDR4 RDIMM, LRDIMM (2TB), bandwidth up to 3200 MT/S

**Disk Drives/Storage** **Front:**

1. Up to 4x 3.5" Hot Plug SAS/SATA HDD
2. Up to 10x 2.5" Hot Plug SAS/SATA/NVMe
3. Up to 8x 2.5" Hot plug SAS/SATA

**Internal:** Option 2x M.2 (BOSS)

**PCIe Storage** Up to 10 NVMe Direct

**USB** **Front:** 1 ports (USB 2.0), 1 (micro-USB, iDRAC Direct)  
**Rear:** 2 ports (USB 3.0)  
**Internal:** 1 port (USB 3.0)

**Storage Controller** **HW RAID:** PERC 9/10 - HBA330, H330, H730P, H740P, H840, 12G SAS HBA  
**Chipset SATA/SW RAID (S150):** Yes

**Network Daughter Cards (NDC)** 2 x 1GbE; 2 x 10GbE BT; 2 x 10GbE SFP+; 2 x 25GbE SFP28

**PCIe slots** Up to 2 PCIe: 1 PCIe Gen3; 1 PCIe Gen4

**Power Supply Unit (PSU)** PSU – 550W

**System Mgmt** LC 3.x, OpenManage, QuickSync 2.0, Digital License Key, iDRAC9, iDRAC Direct (dedicated micro-USB port), Easy Restore

**High Availability (HA)** Hot plug Hard drives, PSUs, IDSDM, Boot Optimized Storage Subsystem (BOSS)

**Security** Dell EMC Integrated Security

**Graphics Processing Unit (GPU)** Up to 2 Single-Wide GPU (T4)



# Dell EMC PowerEdge R7515

Powerful performance and scalability



HIGHLY SCALABLE SINGLE-SOCKET 2U RACK SERVER DELIVERS PERFORMANCE AND OUTSTANDING TCO

## SDS



Direct connect  
SAS/SATA/NVMe for vSAN  
Ready Nodes

## VIRTUALIZATION



High core count  
performance for highest VM  
density in 1S

## DATA ANALYTICS



Multi-die architecture offers low  
latency and floating point capacity  
for Big Data and Containers

# Dell EMC PowerEdge R7515 – Tech Specs

## Features PowerEdge R7515

**CPU** 1x AMD Rome/Milan (Socket SP3), up to 240W (cTDP)

**Memory** **DDR4:** Up to 16 x DDR4 RDIMM, LRDIMM (2TB), bandwidth up to 3200 MT/S

**Disk Drives/Storage** **Front:**  
1. Up to 8 x3.5" Hot Plug SATA/SAS HDDs  
2. Up to 12x 3.5" hot-plug SAS/SATA HDDs  
3. Up to 24x 2.5" Hot Plug SATA/SAS/NVMe  
**Rear:** Up to 2x 3.5" hot-plug SAS/SATA HDDs  
**Internal:** 2x M.2 (BOSS)

**PCIe Storage** Up to 24 NVMe (Up to 12 NVMe Direct)

**USB** **Front:** 2 ports (USB 2.0), 1 (micro-USB, iDRAC Direct)  
**Rear:** 2 ports (USB 3.0)  
**Internal:** 1 port (USB 3.0)

**Storage Controller** **HW RAID:** PERC 9/10 - HBA330, H330, H730P, H740P, H840, 12G SAS HBA  
**Chipset SATA/SW RAID( S150):** Yes

**Network Daughter Cards (NDC)** 2 x 1GbE; 2 x 10GbE BT; 2 x 10GbE SFP+; 2 x 25GbE SFP28

**PCIe slots** Up to 4 PCIe: 2 PCIe Gen3; 2 PCIe Gen4

**Power Supply Unit (PSU)** PSU – 495W, 750W, 1100W, 1600W

**System Mgmt** LC 3.x, OpenManage, QuickSync 2.0,  
Digital License Key, iDRAC9, iDRAC Direct (dedicated micro-USB port), Easy Restore

**High Availability (HA)** Hot plug Hard drives, PSUs, IDSDM, Boot Optimized Storage Subsystem (BOSS)

**Graphics Processing Unit (GPU)** Up to 4 Single-Wide GPU(T4); Up to 1 Full-Height FPGA

# Dell EMC PowerEdge R6525

Dense virtualization



HIGHLY CONFIGURABLE, DUAL-SOCKET RACK SERVER DELIVERS  
OUTSTANDING BALANCED PERFORMANCE FOR DENSE COMPUTE

## HPC



20% more memory  
performance for scale out  
environments

## DENSE VDI



Multi GPU support to accelerate  
end user VDI performance

## VIRTUALIZATION



Highest core count PE 1U server  
with cryptographic isolation  
between hypervisor and VMs

# Dell EMC PowerEdge R6525 – Tech Specs

## Features PowerEdge R6525

**CPU** 2x AMD Rome/Milan (Socket SP3), up to 240W (cTDP)

**Memory** **DDR4:** Up to 32 x DDR4 RDIMM, LRDIMM (8TB), bandwidth up to 3200 MT/S

**Disk Drives** **Front:**

1. Up to 4x 3.5" Hot Plug SAS/SATA HDD
2. Up to 12x 2.5" (10 Front + 2 Rear) Hot Plug SAS/SATA/NVMe
3. Up to 8x 2.5" Hot plug SAS/SATA

Optional: BOSS (2x M.2)

**PCIe Storage** Up to 12 (10+2) NVMe Direct

**USB** **Front:** 1 port (USB 2.0), 1 (micro-USB, iDRAC Direct)  
**Rear:** 1 port (USB 3.0) + 1 port (USB 2.0)  
**Internal:** 1 port (USB 2.0)

**Storage Controller** **HW RAID:** PERC 10.5–HBA345, H345, H745, H840, 12G SAS HBA  
**Chipset SATA/SW RAID:** Yes

**Network** OCP x16 Mezz 3.0 + 2 x 1GE LOM

**PCIe slots** Up to 3 x PCIe x16 Gen4 slots @ 16GT/s; 2 EMS slots @ 25GT/s

**Power Supply Unite (PSU)** PSU – 800W, 1400W

**System Mgmt** iDRAC9 with Lifecycle Controller

**High Availability (HA)** Hot plug redundant Hard drives, Fans, PSUs  
BOSS (2 x internal M.2) pRTS

**Graphics Processing Unit (GPU)** 2 x FH ¼ L at 150W each

# Dell EMC PowerEdge C6525

## High Performance Dense-computing



COMPUTE-DENSE SERVER BOOSTS DATA CENTER PERFORMANCE TO TACKLE A VARIETY OF HPC APPLICATIONS

### DIGITAL MANUFACTURING



Optimized core count and memory for large datasets

### RESEARCH



Low latency and flexible high speed fabric for highly performant clusters

### WEB TECH



Cost optimized design with rich 1S configurations

# Dell EMC PowerEdge C6525 – Tech Specs

## Features PowerEdge C6525

**CPU** Single or dual AMD Rome (and Milan) per node  
Air and Direct Contact Liquid Cooling (DCLC target post RTS)

**Memory** **DDR4:** 8 channels/CPU; Up to 16 x RDIMMs and LRDIMMs  
Speed: up to 3200 MT/s

**Storage** **Backplanes:**

- 24 x 2.5" (direct, and NVMe with 2 universal slots)
- 12 x 3.5" direct
- No-Backplane

**Internal:** uSD card | M.2 SATA BOSS 1.0

**PCIe slots** 2 PCIe Gen4 HH/HL slot, x16 (network, storage, AIC)  
1 x16 Gen4 OCP 3 Slot

**USB** MiniDP, 1x USB 3.0, dedicated iDRAC direct port

**Storage Controller** **HW RAID:** PERC 10.x: H345, HBA 345 & H745 adaptor PERC  
**SW RAID:** Yes, S150

**LOM** Single port 1Gbe LOM (Broadcom)

**Power Supply Unite (PSU)** PSUs (support for 2x1600W, and 2400W), and 2000W 240VDC

**System Mgmt** iDRAC9 with Lifecycle Controller

**High Availability (HA)** Hot plug Hard drives and PSUs, Dual rotor redundant fans

**Graphics Processing Unite (GPU)** At least 1 x T4

# Dell EMC PowerEdge R7525

Unprecedented performance

Available February 2020



HIGHLY ADAPTABLE RACK SERVER BRINGS POWERFUL PERFORMANCE AND FLEXIBLE CONFIGURATION

## DATA ANALYTICS



Maximized storage and memory configuration option enables HPC, ML/DL/AI and rendering

## ALL FLASH SDS



24 direct connect Gen4 NVMe supports all flash vSAN Ready Node

## VDI



Balanced core count and GPU to support for maximum numbers of end users

# DELL Technologies



DELL EMC

Pivotal

RSA

Secureworks

virtustream

vmware