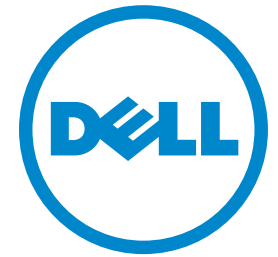# Dell PowerEdge Portfolio

The Dell PowerEdge portfolio and the power to do more — maximize productivity, efficiency, and ensure business continuity with products designed for adaptive and reliable IT solutions, today and tomorrow.

With Dell, you can do more

Dell™ PowerEdge™ servers are built to support the work that IT organizations do. They are engineered to handle the most demanding business applications and designed with specific features to better run workloads like HPC, collaboration, database, ERP, business intelligence and data warehousing.

As the foundation for a complete, adaptive IT solution, Dell PowerEdge servers deliver dramatic performance and management advantages that more effectively and efficiently power the business applications our customers run most.

Combined with the innovative Dell OpenManage™ systems management portfolio and industry-leading workload solutions, PowerEdge servers provide technology that is intelligent, yet simple, giving you the power to do more in even the most complex environments.

Achieve more
Increase application performance and availability while gaining scalability.

Maximize efficiency
Use IT to boost productivity and get the most out of every dollar.

Ensure business continuity
Provide secure, continual access to IT services that power your business.

PowerEdge servers
Engineered by Dell, designed by you

The PowerEdge portfolio is customer inspired and purpose built. We spend countless hours listening to customers, and then put our time and expertise into giving you the features you need to accomplish more, improve efficiency, and ensure business continuity. Our latest generation of PowerEdge servers deliver innovations like:

- **Express Flash PCIe solid-state drives** — offer more transactions per second, resulting in faster interactions
- **Agent-free server management** — uses the Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller, providing significant reductions in administration time
- **Dell Fresh Air technology** — allows servers to run at much higher ambient temperatures, saving tremendous operational costs
- **More widely integrated GPU technology** — provides accelerated HPC research with high sustained GFlops

Our latest generation of servers responds to customer needs in the following areas:

- **Memory capacity and scalability** — much larger memory footprints
- **Virtualization performance** — more processor cores and denser memory
- **Systems management** — complete lifecycle management using iDRAC with Lifecycle Controller, and monitoring and update capabilities with Dell OpenManage Essentials
- **Energy efficiency** — comprehensive optimizations, including Dell OpenManage Power Center
- **Infrastructure flexibility** — innovations like Select Network Adapters, offering more and better I/O options
- **Reliability** — even more RAS features, including a failsafe hypervisor option on most servers

Dell PowerEdge servers deliver value by turning once overpriced, complex, and underutilized technologies into solutions that save you time, money and resources.

Dell PowerEdge shared infrastructure

Dell PowerEdge VRTX:
The first integrated
IT solution designed
from the ground up,
specifically for office
environments

Dell PowerEdge VRTX brings order to chaos, redefines IT operations and allows users to deploy performance anywhere. VRTX is a fully integrated, scalable, easy-to-manage solutions platform optimized specifically for office environments — and capable of integrating up to four PowerEdge M-series server nodes, storage, networking, and management in a single chassis.

Dell PowerEdge rack servers

PowerEdge R210 II
PowerEdge R210 II is an entry-level, yet enterprise ready, ultra-dense 1-socket 1U rack server that is well suited for single-tier architectures, workloads and SMB applications.

PowerEdge R420
A 2-socket, 1U rack-mount server that delivers mainstream performance and density combined with internal expandability for customized workloads.

PowerEdge R320
An enterprise-class, 1-socket, 1U rack-mount server, with the right computing power, scalability and value balanced in a high-performance, dense chassis.

PowerEdge R515
An AMD processor-based 2-socket rack server offering immense amounts of local storage capacity, enterprise-class features and excellent price/performance with up to 16 cores in a 2U form factor.
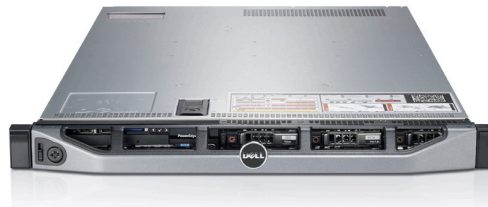
PowerEdge R415
A 2-socket rack server with enterprise-class features offering a great balance of AMD Opteron™ processing power and value with up to 16 cores in a 1U form factor.

PowerEdge R520
A powerful, 2-socket, 2U rack-mount server that balances performance with storage expandability for data-intensive applications.

PowerEdge R620
A hyper-dense 2-socket, 1U rack-mount server with a large memory footprint and impressive I/O options that make it an exceptional platform for space-sensitive environments.

Dell PowerEdge rack servers

PowerEdge R715
A 2-socket rack server powered by the latest AMD Opteron processors and offering excellent price per performance in a 2U form factor.

PowerEdge R815
A 4-socket rack server offering the latest AMD Opteron processors with up to 64 processor cores and an excellent balance of advanced manageability, memory scalability, I/O and redundancy in a space-saving 2U form factor.

PowerEdge R720
Setting the standard for feature flexibility in a 2-socket, 2U rack-mount server and built to run complex workloads using its highly scalable memory, I/O capacity and flexible network options.

PowerEdge R820
A high-performance, 4-socket, 2U rack-mount server designed for dense virtualization and scalable database applications for both mid-size and large enterprise environments.

PowerEdge R720xd
An ultra-dense, 2-socket, 2U rack-mount server with massive internal storage and performance balanced for data-intensive operations.

PowerEdge R910
A scalable 4U, 4-socket server offering performance and reliability while allowing large workload consolidation or max virtualization machine density.

Dell PowerEdge tower servers

PowerEdge T110 II
An ideal first server for small business with the right combination of value, reliability, collaboration and data protection features to improve your business continuity and productivity.

PowerEdge T420
A powerful, 2-socket tower server that delivers performance, expandability, and reliability with a built-in capacity for non-disruptive growth in a quiet office setting.

PowerEdge T320
Designed for a broad range of workloads and applications, this quiet, 1-socket tower delivers performance, reliability and value for a wide range of applications.

PowerEdge T620
A 2-socket, 5U tower server ideal for corporate data centers and remote sites that require high availability, exceptional virtualization, large internal storage capacity and energy efficiency.

Dell PowerEdge blade servers

PowerEdge M420
A quarter-height blade server that delivers unprecedented computational density, allowing up to 32 individually serviceable 2-socket blade servers per chassis, with no compromise on enterprise-class features.

PowerEdge M820
A full-height 4-socket blade server that delivers exceptional performance and scalability for core business applications or consolidated environments.

PowerEdge M520
An enterprise-class 2-socket, half-height blade server that delivers an extraordinary balance of value and performance for mainstream business applications.

PowerEdge M910
A full-height, 4-socket blade server that allows deployment of large Enterprise-class applications, as well as the ability to support heavy virtualization or workload consolidation in maximum density.

PowerEdge M620
An exceptionally feature-rich 2-socket blade server designed for maximum performance combined with extreme density and power efficiency.

PowerEdge M915
A full height, 4-socket AMD processor-based blade server with robust performance, flexibility and throughput for maximized performance per watt

Dell PowerEdge C servers

PowerEdge C6220
Compact 2U shared infrastructure rack server designed for performance, density, and flexibility, supporting up to four independent server nodes.

PowerEdge C8000XD
Designed for efficiency to pack more compute power in the same space, with up to four double-wide storage sleds in one 4U PowerEdge C8000 chassis.

PowerEdge C8000 Chassis
Up to 8 dual-socket servers in a dense 4U rack chassis. Ideal for balancing high performance for compact, scale-out environments that offer both high efficiency and maximum flexibility.
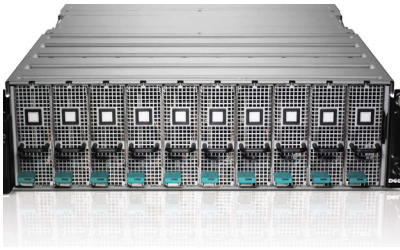
PowerEdge C8220X
Pack more computer power with up to 16 cores, 256GB memory, and three 3.0 expansion slots in up to four double-wide compute sleds in one 4U PowerEdge 8000 chassis.
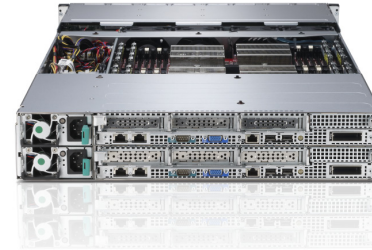
PowerEdge C8220
Compact for fast results with up to 16 cores, 256GB memory, and two 3.0 expansion slots in up to eight single-wide compute sleds in one 4U PowerEdge 8000 chassis.

Dell PowerEdge C servers

PowerEdge C410x
Industry leading 3U PCIe expansion chassis that enables one to eight servers to connect to up to 16 PCI devices. Maximizes space, energy and cost efficiency with unprecedented flexibility.

PowerEdge C6145
One of the highest performing servers ever, with two 4-socket AMD Opteron 6200 series processor-based servers in a hyper-efficient 2U; with 10 PCIe slots to ramp up expansion possibilities.

PowerEdge C6105
A 4-node 2U shared infrastructure AMD Opteron series processor-based hyperscale server designed to maximize performance per watt per dollar.

PowerEdge C5000 Chassis
Up to 12 single-socket servers fit in this 3U rack chassis. Ideal for scale-out power and space-sensitive environments, this server was designed for those looking to increase revenue per square foot in their data

PowerEdge C5220
Up to 12 Intel processor-based server nodes in a shared-infrastructure C5000 chassis. This microserver provides more density with less to cool. Designed for lightweight workloads like virtualized hosting and CDN.

PowerEdge rack servers

Maximize performance and availability

Dell provides a complete portfolio of 1-, 2- and 4-socket rack servers designed to reduce complexity and deliver superior value. PowerEdge rack servers feature excellent performance and functionality and outstanding reliability.

Dell PowerEdge rack servers

Racks

	Description	Form factor	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
R910	The PowerEdge R910 is an Intel processor-based, 4-socket, 4U rack server for mission-critical applications in corporate data centers and workloads needing the highest performance, reliability and I/O scalability.	4U	4-socket, up to 10-core Intel processors Up to 16 hard drives 64 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor 7500 series; Intel Xeon E7-4800 and E7-8800 product families	Up to 2TB Up to 1066 MT/s	Up to 10 PCIe 2.0 + 1 storage	PERC H200 PERC H700 PERC H800	Two embedded Broadcom® 5709C dual-port NICs	Up to 16 hot-plug 2.5" SATA SSD, SAS, nearline SAS, or SATA drives	Hot-plug hard drives, hot-plug redundant power, hot-plug redundant fans, ECC memory, internal dual SD module, redundant cooling, iDRAC with Lifecycle Controller, OpenManage Essentials
R820	The PowerEdge R820 is an Intel processor-based, 4-socket, 2U rack server designed for dense virtualization an scalable database applications.	2U	4-socket, 4-, 6-, or 8-core Intel processors Up to 16 hard drives 48 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-4600 product family	Up to 1.5TB Up to 1600 MT/s	7 PCIe 3.0	PERC H310 PERC H710 PERC H710P PERC H810	Select Network Adapter— minimum configuration: 4 x 1Gb; 10GbE (optional)	Up to 16 hot-plug 2.5" SATA SSD, SAS, nearline SAS, or SATA drives	High-efficiency, hot-plug redundant power supplies, hot-plug drive bays, TPM, dual internal SD support, hot-plug redundant fan, optional bezel, luggage tag, ECC memory, interactive LCD screen, extended thermal support, ENERGY STAR® compliant, switch independent partitioning, iDRAC with Lifecycle Controller, OpenManage Essentials
R815	The PowerEdge R815 is an AMD processor-based 4-socket, 2U rack server ideal for customers seeking a combination of value, systems management and performance in virtualization, database, HPC and other highly threaded application implementations.	2U	4-socket, up to 64 AMD processor cores Up to 6 hard drives 32 DDR3 DIMM slots Advanced systems management Redundancy options	AMD Opteron 6100, 6200 and 6300 series processors	Up to 1TB Up to 1600 MT/s	6 PCIe 2.0 + 1 storage	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC H800 PERC 6/E	Two embedded Broadcom 5709C dual-port NICs	Up to 6 hot-plug 2.5" SATA SSD, SAS, nearline SAS, or SATA drives	Hot-plug hard drives, hot-plug redundant power, dual SD modules, ECC memory, interactive LCD screen, iDRAC with Lifecycle Controller, OpenManage Essentials
R720xd	The PowerEdge R720xd is ideal for workloads that are hungry for storage and I/O performance, like medical imaging and email servers, and is a powerful combination of highly expandable memory, impressive I/O capabilities and extraordinary storage capacity.	2U	2-socket, 2-, 4-, 6- or 8-core Intel processors Up to 26 hard drives 24 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600 MT/s	6 PCIe 3.0	PERC H310 PERC H710 PERC H710P PERC H810	Select Network Adapter— minimum configuration, 4 x 1Gb, 10GbE (optional)	Up to 26 hot-plug 2.5" SAS, SATA or SSD drives or up to 12 hot-plug 3.5" SAS or SATA drives	High-efficiency, hot-plug redundant PSU, hot-plug drive bays, TPM/No-TPM, dual internal SD support, hot-plug redundant fan, optional bezel, luggage tag, ECC memory, extended thermal support, ENERGY STAR compliant, switch independent partitioning, iDRAC with Lifecycle Controller, OpenManage Essentials
R720	The PowerEdge R720 is designed to excel at running a wide range of applications and virtualization environments for both mid-size and large enterprises. R720 is a general purpose platform with expandable memory up to 768GB and impressive I/O capabilities to match.	2U	2-socket, 2-, 4- 6- or 8-core Intel processors Up to 16 hard drives 24 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600 MT/s	7 PCIe 3.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	Select Network Adapter— minimum configuration: 4 x 1Gb, 10GbE (optional)	Up to 8 hot-plug 3.5" SAS or SATA drives or up to 16 hot-plug 2.5" SAS, SATA, SSD drives Up to 4 Express Flash PCIe SSDs	High-efficiency, hot-plug redundant PSU, hot-plug drive bays, TPM/No-TPM, dual internal SD support, hot-plug redundant fan, optional bezel, luggage tag, ECC memory, interactive LCD screen, extended thermal support, ENERGY STAR compliant, switch independent partitioning, iDRAC with Lifecycle Controller, OpenManage Essentials

Dell PowerEdge rack servers

Racks

	Description	Form factor	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
R715	The PowerEdge R715 is an AMD processor-based 2-socket, 2U rack server ideal for customers seeking value, systems management, and great price for performance in workload consolidation, virtualization, medium databases and other applications.	2U	2-socket, 4-socket, up to 32 AMD processor cores Up to 6 hard drives 16 DDR3 DIMM slots Advanced systems management Redundancy options	AMD Opteron 6100, 6200 and 6300 series	Up to 512GB Up to 1333 MT/s	6 PCIe 2.0 + 1 storage	PERC H200 PERC H700	Two embedded Broadcom® 5709C dual-port NICs	Up to 6 hot-plug 2.5" SAS, SATA or SSD drives	Hot-pluggable hard drives, hot-pluggable redundant power supply, internal dual SD module, ECC memory, interactive LCD screen, iDRAC with Lifecycle Controller, OpenManage Essentials
R620	The PowerEdge R620 is a hyper-dense 2-socket, 1U rack server with a large memory footprint and impressive I/O options that make it an exceptional platform for space-sensitive environments.	1U	2-socket, 2-, 4- 6- or 8-core Intel processors Up to 10 hard drives 24 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600 MT/s	Up to 3 PCIe 3.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	Select Network Adapter— minimum configuration: 4 x 1Gb	Up to 10 hot-plug 2.5" SAS, SATA, or SSD drives or up to 4 hot-plug 2.5" SAS, SATA, or SSD + two Express Flash PCIe SSDs	High-efficiency, hot-plug, redundant power supplies, DC power supplies, hotplug hard drives, TPM, dual internal SD support, hot-plug redundant fans, ECC memory, optional bezel, luggage tag, interactive LCD screen, extended thermal support, ENERGY STAR compliant, switch independent partitioning, iDRAC with Lifecycle Controller, OpenManage Essentials
R520	The PowerEdge R520 is an Intel processor-based 2-socket, 2U rack server designed for demanding workloads with an excellent balance of processing power, storarge power, and redundancy.	2U	2-socket, 4-, 6-, or 8-core processors Up to 8 hard drives 12 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2400 product family	Up to 192GB Up to 1600 MT/s	4 PCIe 3.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	Two embedded Broadcom 5720 Gigabit Ethernet NICs	Up to 8 hot-plug 3.5" SAS or SATA drives or up to 8 hot-plug 2.5" SAS, SATA or SSD drives	High-efficiency, hot-plug, redundant power supplies, DC power supply, hot-plug hard drives, TPM, dual internal SD support, fan fault tolerance, ECC memory, optional bezel, luggage tag, interactive LCD screen, ENERGY STAR compliant, extended power range, switch independent partitioning, iDRAC with Lifecycle Controller, OpenManage Essentials
R515	The PowerEdge R515 is an AMD processor-based 2-socket, 2U rack server that is great for department, branch or small business database tasks, email, virtualization, workload consolidation and business applications with large storage requirements.	2U	2-socket, 4- or 6-core AMD processors Up to 12 hard drives 8 DDR3 DIMM slots Optional advanced systems management Redundancy options	AMD Opteron 4100, 4200 and 4300 series	Up to 256GB Up to 1600 MT/s	3 PCIe 2.0+ 1 storage	PERC H200 PERC H700 PERC S300 PERC H800	One embedded Broadcom 5716 Gigabit Ethernet NIC	Up to 8 or 12 hot-plug 2.5" or 3.5" SAS, SATA or SSD hard drives + 2 internal 2.5" cabled hard drives	Hot-plug redundant power, ECC memory, and quad-pack LED diagnostic or interactive LCD (only with 8 hard drive chassis), iDRAC with Lifecycle Controller, OpenManage Essentials
R420	The PowerEdge R420 is an Intel processor-based 2-socket, 1U rack server offering value with internal expandability for dense workloads supporting growth through the life of the server.	1U	2-socket, 4-, 6-, or 8-core processors Up to 8 hard drives 12 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2400 product family	Up to 192GB Up to 1600MT/s	2 PCIe 3.0 + 1 storage	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	Two embedded Broadcom NetXtreme 5720 Gigabit Ethernet NICs	Up to 4 cabled 3.5" SAS or SATA drives Up to 4 hot-plug 3.5" SAS or SATA or 8 2.5" SAS or SATA SSD drives	High-efficiency, hot-plug, redundant power supplies, hot-plug hard drives, TPM, dual internal SD support, fan fault tolerance, ECC memory, interactive LCD screen, ENERGY STAR compliant, iDRAC with Lifecycle Controller, OpenManage Essentials

Dell PowerEdge rack servers

	Description	Form factor	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
R415	The PowerEdge R415 is an AMD processor-based 2-socket, 1U rack server suited for small and medium businesses and data centers run-the-business functions such as IT infrastructure, file/print, web, email, select HPC usage and entry virtualization needs.	1U	2-socket, 4- or 6-core AMD processors Up to 4 hard drives 8 DDR3 DIMM slots Optional advanced systems management Redundancy options	AMD Opteron 4100, 4200 and 4300 series	Up to 256GB Up to 1600MT/s	1 PCIe 2.0 + 1 storage	PERC H200 PERC H700 PERC H800 SAS 6/iR PERC S300	One embedded Broadcom NetXtreme II 5716 Gigabit Ethernet NIC	Up to 4 cabled 3.5" SAS or SATA drives Up to 4 hot-plug 3.5" SAS or SATA or 2.5" SAS or SATA SSD drives	Hot-plug hard drives, hot-plug redundant power, ECC memory, and quadpack LED diagnostic or interactive LCD only with hot-plug HDD chassis, iDRAC with Lifecycle Controller, OpenManage Essentials
R320	The Dell PowerEdge R320 is an enterprise-class, 1-socket, 1U rack-mount server designed to deliver the right combination of performance, redundancy and value in a dense chassis.	1U	1-socket, 2-, 4-, 6-, or 8-core Intel processors Up to 8 hard drives 6 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processor E5-2400 product family Intel Xeon Processor E5-1410	Up to 96GB Up to 1600MT/s	1PCIe 2.0 and 1PCIe 3.0	PERC S110 PERC H310 PERC H710 PERC H810	Two embedded Broadcom NetXtreme 5720 Gigabit Ethernet NICs	Up to 4 cabled 2.5" SAS or SATA drives or Up to 8 hot-plug 2.5" SAS SSD or SATA drives or 4 3.5" SAS or SATA drives	Hot-plug hard drives, hot-plug redundant power supplies, DDR3 ECC memory, and diagnostic LED or an interactive LCD display screen, iDRAC with Lifecycle Controller, OpenManage Essentials
R210 II	PowerEdge R210 II is an entry-level, yet enterprise ready, ultra-dense 1-socket 1U rack server that is well suited for single-tier architectures, workloads and SMB applications.	1U	1-socket, dual- or quad-core Intel processors Up to 2 hard drives 4 DDR3 DIMM slots Optional advanced systems management eSATA external storage connectivity option	Intel Xeon processor E3-1200 product family Intel Core processor i3-2100 product family	Up to 32GB Up to 1333MT/s	1 PCIe 2.0	PERC H200 PERC S100 PERC S300	One embedded Broadcom NetXtreme II 5716 Gigabit Ethernet NIC	Up to 2 cabled 3.5" SAS or SATA or up to 4 2.5" SAS or SSD drives	iDRAC with Lifecycle Controller, OpenManage Essentials

Racks

PowerEdge tower servers

Achieve unprecedented value

Dell provides a complete tower server portfolio with a wide choice of performance and functionality, providing you with a solid foundation to run your businesses and organizations. The PowerEdge tower servers are designed to deliver high quality and reliability at a consistently low acquisition cost with exceptional price for performance.

Dell PowerEdge tower servers

Towers

	Description	Form factor	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
T620	The PowerEdge T620 is an enterprise-class, Intel processor-based 2-socket tower server that emphasizes high performance and high availability with built-in room for growth.	Tower or 5U rack	2-socket, up to 16 processor cores Up to 24 DIMM slots Up to 32 hard drives, Advanced systems management Redundancy options	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600MT/s	Up to 6 PCIe 3.0 + 1 PCIe 2.0	PERC S110 PERC H310 PERC H710 PERC H710P	Two Intel dual-port 1GbE LOM with TOE	Up to 8 hot-plug 3.5" SAS, SATA, or SSD + 4 PCIe SSD drives or up to 12 hot-plug 3.5" SAS, SATA, or SSD drives or up to 16 hot-plug 2.5" SAS, SATA, or SSD + 4 PCIe SSD drives or up to 32 hot-plug 3.5" SAS, SATA, or SSD drives	High-efficiency, hot-plug redundant power supplies, hot-plug drive bays, TPM, dual internal SD support, hot-plug redundant fan, optional bezel, luggage tag, ECC memory, interactive LCD screen; extended thermal support, ENERGY STAR compliant, switch independent partitioning, iDRAC with Lifecycle Controller
T420	The PowerEdge T420 is an Intel processor-based 2-socket tower server that delivers performance and non-disruptive growth for both office environments and data centers.	Tower or 5U rack	2-socket, 4-, 6-, or 8-core Intel processors Up to 16 hard drives 12 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon E5-2400 product family	Up to 192GB Up to 1600MT/s	4 PCIe 3.0 and 2 PCIe 2.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	One dual-port embedded Broadcom 5720 Gigabit Ethernet NIC	Up to 4 3.5" SAS or SATA drives or up to 8 hot-plug 2.5"/3.5" drives or up to 16 hot-plug 2.5" SAS, SATA, or SSD drives	Optional high-efficiency, hot-plug redundant power supplies, hot-plug drive bays, TPM, dual internal SD support, redundant fans, optional bezel, luggage tag, ECC memory, optional interactive LCD screen, extended thermal support, ENERGY STAR compliant, iDRAC with Lifecycle Controller
T320	The PowerEdge T320 is an Intel processor-based 1-socket tower designed for a broad range of workloads and applications that delivers performance, reliability and value in a robust design with simplified manageability.	Tower or 5U rack	1-socket, 2-, 4-, 6-, or 8-core Intel processors Up to 16 hard drives 6 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processor E5-2400 product family Intel Xeon processor E5-1400 Intel Pentium processor 1400	Up to 96GB Up to 1600MT/s	3 PCIe 3.0 and 2 PCIe 2.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	One dual-port embedded Broadcom 5720 Gigabit Ethernet NIC	Up to 4 cabled 3.5" SAS or SATA drives or up to 8 hot-plug 3.5"/2.5" or up to 16 hot-plug 2.5" SAS, SATA, or SSD drives	Optional high-efficiency, hot-plug redundant power supplies, hot-plug drive bays, TPM, dual internal SD support, redundant fans, optional bezel, luggage tag, ECC memory, optional interactive LCD screen, extended thermal support, ENERGY STAR compliant, iDRAC with Lifecycle Controller
T110 II	The PowerEdge T110 II is an Intel processor-based 1-socket tower server that is an ideal first server for small business with the right combination of value, reliability, collaboration and data protection features to improve your business continuity and productivity.	Tower	1-socket, dual- or quad-core Intel processors Up to 4 hard drives 4 DDR3 DIMM slots Basic system management eSATA external storage connectivity option	Intel Xeon processor E3-1200 product family Intel Core processor i3-2100 product family	Up to 32GB Up to 1333MT/s	4 PCIe 2.0	PERC H200 PERC S100 PERC S300	One single-port Broadcom 5722 Gigabit Ethernet NIC	Up to 4 cabled 3.5" SAS or SATA or up to 6 cabled 2.5" SAS or SATA SSD drives	DDR3 ECC memory, SW RAID, TPM/ TCM, quad pack LED lights, toolless chassis, iDRAC with Lifecycle Controller, OpenManage Essentials

PowerEdge blade servers

Invest in total business-class solutions

The Dell PowerEdge M-series blade servers address the challenges of an evolving IT environment by delivering leading enterprise-class features and functionality. The M-Series delivers a unique array of options configured to meet the needs of your IT environment today and in the future.

Simple manageability

Dell's blade solutions deliver an array of enterprise-class management capabilities, including centralized, chassis-based tools to maximize data center productivity.

Increased flexibility

Designed to lead the industry in rapid deployment, Dell's fully modular blade enclosure provides an effective solution for scaling your I/O infrastructure that delivers savings in time, cabling and switch port costs.

Energy efficiency

Dell M-Series blades are designed for energy efficiency and density to address growing power consumption and space constraints in your data center.

Dell PowerEdge M1000e blade enclosure

	Product	Description	Form factors	Power supplies	Cooling fans	I/O modules	Management modules	Management highlights
M1000e	Unrivaled power efficiency and I/O throughput for performance combined with scalability and flexibility to meet blade server needs for multiple generations.	Fully modular blade enclosure optimized for Dell blade servers	10U enclosure holds up to 16 blade servers	Choice of up to 6 hot-pluggable power supplies	9 hot-pluggable, redundant fan modules all come standard	Up to 6 I/O modules for three redundant fabrics; available switches include Dell and Cisco® 1Gb/10Gb Ethernet with modular bays, Dell 10Gb Ethernet with modular bays, Dell Ethernet pass-through, Brocade® 8GbE Fibre Channel, Fibre Channel pass-through, Mellanox® DDR QDR and FDR InfiniBand	1 (standard) or 2 (redundant) Chassis Management Controllers (CMCs); optional integrated KVM switch for "crash cart" management	Dynamic power management allows for predefined power limits to individual blades; real-time reporting for enclosure and blade power consumption; real-time thermal monitoring; secure SSL and command line interfaces; front control panel with interactive LCD for module setup, info and troubleshooting

Dell PowerEdge blade servers

	Description	Form factor	Features	Processor(s)	Memory	Mezzanine slots	RAID controllers	Integrated NIC	Hard drives	Availability features
Blades M915	The PowerEdge M915 is a full-height, 4-socket AMD processor-based blade server with robust performance, flexibility and throughput for maximized performance per watt and cost.	Full-height blade; Up to 8 fit into an M1000e enclosure	2- or 4-socket, 8- or 12-core AMD processors 32 DDR3 DIMM slots Two Flexible LOM Internal dual SD module for hypervisor redundancy Advanced embedded systems management	Up to four AMD Opteron 6100, 6200 and 6300 series processors	Up to 512GB Up to 1333MT/s	4 mezzanine card slots for up to 3 fully redundant, highly available I/O fabrics	PERC H200 (6Gb/s) PERC H700 (6Gb/s)	Four modular Broadcom BCM5709S Gigabit Ethernet NICs	Up to two 2.5" SAS or SSD hot-plug drives	Three USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse, iDRAC with Lifecycle Controller, OpenManage Essentials, optional redundant embedded persistent storage for virtualization hypervisor
M910	The PowerEdge M910 is an Intel processor-based high-performance 4-socket full-height blade server ideal for organizations that require maximum performance and scalability for core applications while minimizing their power and physical space requirements.	Full-height blade; Up to 8 fit into an M1000e enclosure	2- or 4-socket, 8- or 10-core Intel processors 32 DDR3 DIMM slots Unique Dell FlexMem Bridge memory expansion technology Internal dual SD module for hypervisor redundancy Advanced embedded systems management	Up to four 4-, 6-, or 8-core Intel Xeon processor 7500 series or up to two 4-, 6-, or 8-core Intel Xeon processor 6500 series	Up to 1TB Up to 1333MT/s	4 mezzanine card slots for up to 3 fully redundant, highly available I/O fabrics	PERC H200 (6 GB/s) PERC H700 (6GB/s)	Four embedded Broadcom Gigabit NICs	Up to two 2.5" SAS or SSD hot-plug drives	Three USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse; Optional Redundant Embedded Persistent Storage for Virtualization Hypervisor, iDRAC with Lifecycle Controller, OpenManage Essentials
M820	The PowerEdge M820 is an Intel processor-based 4-socket, full-height blade server that delivers exceptional performance and scalability for core business applications or consolidated workloads.	Full-height blade; Up to 8 fit into an M1000e enclosure	4-socket, 4, 6, or 8-core Intel processors 48 DDR3 DIMM slots Up to 1.5TB of RAM per blade or 12TB per M1000e chassis Advanced embedded systems management and Internal dual SD module for hypervisor redundancy	Up to four 4-, 6-, or 8-core Intel Xeon processor E5-4600 product family	Up to 1.5TB Up to 1600MT/s	4 PCIe 3.0 mezzanine card slots for flexible I/O options	PERC H310 PERC H710 PERC H710P	Dual Select Network Adapter Broadcom, Brocade, QLogic Dual Port, 10GbE NICs	Up to four 2.5" SAS, SSD or PCIe Express Flash SSD hot-plug drives	Hot-plug hard drives, ECC memory, Single Device Data Correction (SDDC) supports memory demand and patrol scrubbing, high availability failover cluster support, iDRAC with Lifecycle Controller, OpenManage Essentials

Dell PowerEdge blade servers

	Description	Form factor	Features	Processor(s)	Memory	Mezzanine slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
M620	The PowerEdge M620 is an exceptionally feature-rich 2-socket blade server, and is designed for maximum performance combined with extreme density and power efficiency.	Half-height blade; Up to 16 fit into an M1000e enclosure	2-socket, 2-, 4-, 6-, or 8-core Intel processors Up to 24 DIMM slots Advanced embedded systems management	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600 MT/s	2 PCIe 3.0 mezzanine card slots for flexible I/O options	PERC S110 PERC H310 PERC H710 PERC H710P	Select Network Adapter— minimum configuration: 2 x 10GbE	Up to two 2.5" SAS, SATA, SSD hot-plug drives or Up to two 2.5" Express Flash PCIe SSDs	Hot-plug hard drives ECC memory Single Device Data Correction (SDDC) supports memory demand and patrol scrubbing High availability failover cluster support; iDRAC with Lifecycle Controller, OpenManage Essentials
M520	The PowerEdge M520 is an Intel processor-based 2-socket, half-height blade server built for virtualization, mainstream business applications and front-end database workloads.	Half-height blade; Up to 16 fit into an M1000e enclosure	2-socket, 2-, 4-, 6-, or 8-core Intel processors 12 DDR3 DIMM slots Advanced embedded systems management	Up to two 2-, 4-, 6-, 8-core Intel Xeon Processor E5-2400 product family	Up to 192GB Up to 1600 MT/s	2 PCIe 3.0 mezzanine card slots for flexible I/O options	PERC S110 PERC H310 PERC H710 PERC H710P	Two embedded Broadcom 5720 Ethernet Gigabit NICs	Up to two 2.5" SAS or SATA SSD hot-plug drives	Hot-plug hard drives ECC memory Single Device Data Correction (SDDC) supports memory demand and patrol scrubbing High availability failover cluster support; iDRAC with Lifecycle Controller, OpenManage Essentials
M420	The PowerEdge M420 is an Intel processor-based ultra-dense 2-socket, quarter-height blade server that allows up to 32 serviceable blade servers per chassis, offering an unprecedented high-performance computing environment.	Quarter-height blade; Up to 32 fit into an M1000e enclosure	Scaling up to 16-core processors 6 DDR3 DIMM slots Advanced embedded systems management	Up to 16-core Intel Xeon Processor E5-2400 product family	Up to 192GB Up to 1600 MT/s	1 PCIe 3.0 mezzanine card slots for flexible I/O options	PERC H310	Two embedded Broadcom 57810S Gigabit Ethernet NICs	Up to two 1.8" SSD hot-plug drives	Hot-plug hard drives ECC memory Single Device Data Correction (SDDC) supports memory demand and patrol scrubbing High availability failover cluster support; iDRAC with Lifecycle Controller, OpenManage Essentials

Blades

PowerEdge C servers

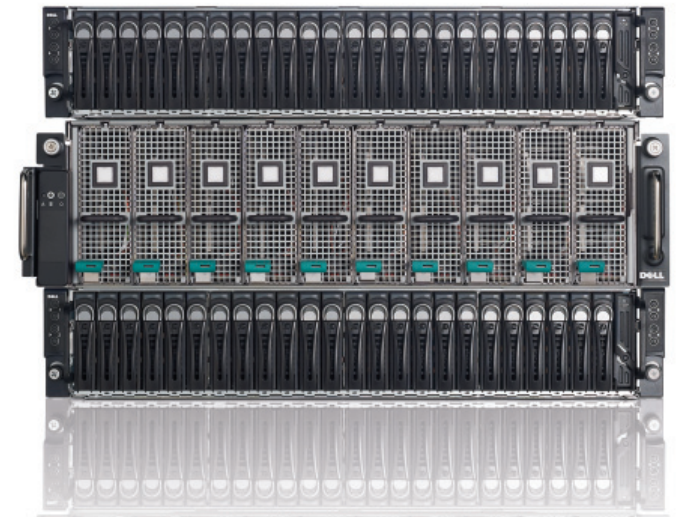## Problem-solving innovation for proven performance and hyper-efficiency at scale

For cloud builders, high performance computing shops, telcos/hosters, Web 2.0 and big data applications, Dell PowerEdge C platforms focus on solving hyperscale data center challenges, with problem solving innovation, streamlined feature sets, and extensively proven performance and efficiency.

Proven effectiveness: PowerEdge C platforms are based on proven technologies the Dell Data Center Solutions (DCS) group has delivered to some of the world's largest hyperscale data centers looking for an IT competitive edge. Get that edge. Take advantage of that experience, and the investment those companies have made in collaborative custom-design for performance and efficiency at scale.

Problem-solving innovation: One size does not fit all. DCS starts by listening to customer challenges and needs and then custom-designs platforms to solve those challenges and meet those needs. The result: entirely new categories of servers such as microservers and hyperscale servers, right-sized for your workloads and your environment.

Efficiency: PowerEdge C servers have high performance per watt, performance per U and performance per dollar. Designed for performance and efficiency, PowerEdge C servers have a shared infrastructure: sharing chassis, fans and power supplies across up to four server nodes in a 2U that can lower TCO considerably.

Data Center Solutions: DCS builds custom designs and delivers IT for some the world's largest search engine and cloud computing providers. For DCS, it all starts with you. Your unique challenges. Your unique environment. It's collaborative problem solving innovation, with designs proven at hyperscale. Get a competitive edge with some of those custom designs more widely available in the PowerEdge C line, right-sized for scale-out performance and efficiency.

Dell PowerEdge cloud servers

		Description	Form factor	Features	Processor(s)	RAM per node (min/max)	PCI slots	Controllers	Integrated NIC	Internal storage (max)	Availability features
PowerEdge C servers	**C6220**	The next generation of the PowerEdge C6100, this compact 2U shared infrastructure designed for performance, density and flexibility, supporting 1 to 4 independent server nodes.	4 x 2-sockets (Intel) in a 2U rack-mount	Intel's latest 2S performance processors. Component and power efficiency improvements save power while boosting performance	2, 4, 6 or 8-core Intel Xeon E5-2600 Processor Series	Up to 512GB (16 DIMM slots): 4GB/8GB/16GB DDR3, 1333MT/s or 1066MT/s	1 PCIe x 8 mezzanine daughtercard slot and 1 x16 PCI Express 3.0 (4-node configs) or 2 x16 PCI Express 3.0 (2-node configs)	Intel C600 integrated controller (optional) LSI 2008 SAS mezzanine In PCIe slot: LSI 9265-8i add-in RAID controller	Intel 1350- 2 x Gb Ethernet Add-in: 1Gb and 10Gb Ethernet card options QDR InfiniBand card options	36TB SATA /NL SAS	24 x 2.5" or 12 x 3.5" hot-plug hard drive options; high-efficiency platinum-rated 1200W/1400W power supply options
	C6105	4 two-socket server nodes, for up to 64 cores with an ideal mix of power, price and performance in a cost- and power-efficient shared infrastructure.	4 x 2-sockets (AMD) in a 2U rack-mount	Maximize performance/watt/dollar Shared infrastructure uses less space, power and cooling Service individual nodes to increase uptime	4- 6-, or 8-core AMD Opteron 4200/4300 Processor Series	Up to 192GB (12 DIMM slots): 2GB/4GB/8GB/16GB DDR3, 1333MT/s	1 PCIe x 8 mezzanine daughtercard slot and x 16 riser slot	LSI 2008 6Gb SAS mezzanine and AMD SP5100 integrated controller	Dual port Intel 82576 1 GbE	36TB SATA /NL SAS	24 x 2.5" or 12 x 3.5" hot-plug hard drive options; redundant high-efficiency 1100W gold-rated 90% efficiency and 1400W platinum-rated power supplies
	C6145	One of the highest performing servers ever, with two 4-socket AMD Opteron 6200 series processor-based servers in a hyper-efficient 2U; with 10 PCIe slots to ramp up expansion possibilities.	2 x 4-socket (AMD) in 2U rack-mount	High performance and density Shared infrastructure uses less floor space, power and cooling 5 PCIe slots/server node, 10 total	8, 12 or 16 cores per processor AMD Opteron 6200 processor series, 128 cores	Up to 512GB (32 DIMM slots): 4GB/8GB/16GB DDR3, 1333MT/s	1 PCIe x8 mezzanine daughtercard slot,3 x PCIe x16 riser slot 1 dedicated x16 host interface card (HIC) card per server node	LSI 2008 6GbE SAS mezzanine (optional) LSI 9265-8i add-in RAID controller	Embedded dual port Intel Kawela 82576 1 Gb Ethernet network interface card	48TB SATA or NL 48TB SAS	24 x 2.5" or 12 x 3.5" hot-plug hard drive options; Dual hot-plug redundant high-efficiency 1100W gold-rated 90% efficiency and 1400W platinum rating 94% efficiency power supplies; Linux and Windows OS; Citrix, VMware and Microsoft Hyper-V
	C5000 Chassis	The 3U PowerEdge C5000 chassis leverages fans, power supplies and other components across up to 12 single socket server nodes to offer more density with less to cool.	3U rack-mount	More density with less to cool, cold-aisle accessible, hot-swap high-efficiency 1400W power supplies and server nodes simplify serviceability and lower total cost of ownership	N/A	N/A	N/A	N/A	N/A	N/A	Up to 12 single-socket AMD or Intel processor-based server nodes (sleds) with 4 x 2.5" or 2 x 3.5" hard drive options; BMC with IPMI 2.0 support with 1 x 10/100 Mbps RJ45 connector for dedicated management, or 1 x NIC port shared
	C5220	3U shared infrastructure microserver supporting up to 12 independent server nodes for virtualized hosting, content delivery networks and Web 2.0 applications. N/A	Up to 8 or 12 x 1-socket (Intel), 3U rack-mount	Micro in size, without compromise, the PowerEdge C5220 Microserver has Intel E3-1200 processors. Its shared infrastructure results in more density with less to cool, less floor space, cabling, or racks	2- or 4-core Intel Xeon processor E3-1200 Series or Intel Core i3-2120	Up to 32GB (4 DIMM slots): 2GB/4GB/8GB DDR3, 1333MT/s	1 x8 PCIe mezz card slot available on the 8-sled version LSI 2008 or Intel 82580DB dual-port 1GbE adapter (optional)	Intel 82580DB	Intel 82576EB	4TB SATA or 6TB NL SAS	4-12 single-socket server node sleds; 4 x 2.5" or 2 x 3.5" hard drive options; Linux and Windows OS; Citrix, VMware and Microsoft Hyper-V

Dell PowerEdge cloud servers

		Description	Form factor	Features	Processor(s)	RAM per node (min/max)	PCI slots	Controllers	Integrated NIC	Internal storage (max)	Availability features
PowerEdge C servers	**C410x**	3U PCI Express expansion chassis offering maximum flexibility and speed. Connects combinations of 1 to 8 servers and up to 16 PCIe slots.	Half-height/ half-length and full-height/ half-length, up to 225W per module passively cooled PCIe modules are only available with cards installed.	Designed to concentrate tremendous computer power in a simple, scalable format that brings improved space-, weight- and cost-efficiency to data centers	N/A	N/A	8 PCIe Gen 2 x 16 iPASS ports PCIe cards supported: NVIDIA® Tesla® M2075 NVIDIA Tesla M2090 Qualified specifically for the PowerEdge C6220, C6145, and R720 server options	N/A	N/A	N/A	Hard drive options depend on the host server; four high-efficiency, hot-plug N+1 redundant 1400W power supply options; Novell® SUSE® Linux OS, Red Hat® Enterprise Linux® OS, and Microsoft® Windows® OS
	C8000 Chassis	The 4U PowerEdge offers an ultra-dense, highly scalable chassis with C8220, C8220X, and C8000XD sleds, featuring up to 8 cores, increased memory bandwidth, and flexible storage options.	4U rack-mount	Introduces a shared infrastructure that allows mixing and matching of compute, storage and GPU sleds with the capacity to run multiple workloads in one chassis and across racks	N/A	N/A	N/A	N/A	N/A	N/A	Up to 8 dual-socket, independently serviceable Intel processor-based server nodes (sleds) with 12 x 3.5" or 12 x 2.5" hot-plug or 24 x 2.5" non hot-plug hard drive options; BMC with IPMI 2.0 with 1 x 10/100 Mbps RJ45 connector for dedicated management
	C8220	4U rack mount chassis fits up to eight C8220 sleds. Up to 16 cores and 256GB memory in a compact single-wide compute sled designed for the 4U PowerEdge C8000 chassis.	C8220 single-wide sled	With the dual Intel Xeon processor E5-2600 product family, this single-wide compute sled delivers the cores, memory and I/O expansion flexibility to quickly meet the needs of the most demanding workloads.	Intel Xeon processor E5-2600 product family	4GB / 256GB	1 x PCIe x16 3.0 (half height, half length)+ 1 x PCIe x8 3.0 (mezzanine	Embedded HDD SATA; optional storage: RAID ICH10R, LSI 9265-8i, 9202-16e, 9280	2x Intel I350 GbE	2TB SATA II or 200GB SATA SSD	2, 4, or 6 core dual-socket server node sleds; 2 x 2.5" SATA/SSD hard drive options; Linux and Windows OS; Citrix, VMware, Microsoft Windows Server Hyper-V
	C8220X	4U rack mount chassis fits up to four C8220X sleds. Up to 16 cores and 256GB memory in a compact double-wide compute sled for the 4U PowerEdge C8000 chassis.	C8220X double-wide sled	With the dual Intel Xeon processor E5-2600 product family, enhanced GPUs and memory bandwidth, this double-wide compute sled can speed processing by an order of magnitude to see results faster.	Intel Xeon processor E5-2600 product family	4GB / 256GB	2x LP PCIeX8 add-in controllers 1x MEZZ controller or 1x MEZZ controller	Embedded HDD SATA; optional storage: RAID ICH10R, LSI 2008 mezzanine, 9265-8i, 9202-16e, 9280	2x Intel I350 GbE	12TB SAS, SATA, or SSD	2, 4, or 6 core dual-socket server node sleds; 2 x 2.5" SATA, 8x 2.5" SATA/SAS (non-hot-plug), 2x 2.5" SATA external SATA/SAS hard drive options; Linux and Windows OS; Citrix, VMware, Microsoft Windows Server Hyper-V
	C8000XD	The 4U rack mount chassis fits up to four compact, double-wide C8000XD sleds with a total capacity of 144TB of storage.	C8000XD double-wide storage sled	Offers the ideal mix of SATA, SAS, and SSD storage density resulting in reduced cost per GB by boosting storage density up to 1.4PB per rack.	N/A	N/A	N/A	N/A	N/A	36TB SAS, SATA, or SSD	LSI SAS expander with: 2x LSI SAS 2x28 chipsets, Up to 12x 3.5" SATA/SAS, 12x 2.5" 15mm SATA/SAS, 24x 2.5" 9.5mm SATA/SAS (non-hot-plug) hard drive options

PowerEdge shared infrastructure

Bring greater simplicity, efficiency and versatility to your IT environment

Clear up the complexity of disparate hardware, multiple management tools, and hardware sprawl with an optimized platform that integrates servers, storage, networking and management into a single, compact chassis. With vast extensive scalability available inside the chassis, additional servers and hard drives can be inserted without the need for more floor space or rack space, and without any additional cables.

Dell PowerEdge shared infrastructure

	Description	Form factor	Storage	I/O slots	Embedded NIC	Hard drives	Availability
VRTX	The PowerEdge VRTX shared infrastructure combines up to four hot-plug Dell PowerEdge M-series server nodes, storage, and networking into a 5U rackable chassis	5U rackable tower chassis	Shared PERC8	8 flexible PCIe slots: 3 full-height/full-length 5 low-profile/half-length	1GbE internal switch module (standard) with 16 internal 1GbE ports and 8 external ports Ethernet pass-through module with 8 external ports (optional)	Up to 12 x 3.5in NLSAS, SAS, or SAS SSD hot-plug drives or Up to 25 x 2.5in NLSAS, SAS, or SAS SSD hot-plug drives	High-efficiency, hot-plug redundant power supplies, hot-plug redundant fans, hot-plug drive bays, TPM, failsafe hypervisors, ECC memory, interactive LCD screen, Dell Fresh Air extended thermal support, ENERGY STAR compliant, switch independent partitioning, iDRAC7 with Lifecycle Controller, support for hypervisor and high availability capabilities including clustering, Live Migration, and VMotion

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