



Cisco UCS E-Series with VMware vSphere

One-Box IT for Remote and Branch Offices

Cisco UCS E-Series with VMware vSphere

Cisco UCS E-Series with VMware vSphere Cloud Infrastructure is a computing, virtualization, and networking platform that brings datacenter-level performance, availability, and business continuity to enterprise remote- and branch-office operations, from a unique “single-box” combination of:

- Cisco Integrated Services Router Generation 2 (ISR G2) networking platform with Multigigabit Fabric (MGF) backplane switch
- Cisco® Services Ready Engine (SRE) 700 or 900 x86 blade server computing platform
- Permanent license to activate VMware vSphere Hypervisor and optional vCenter Agent for vCenter management.
- Microsoft Windows Server 2008 R2 Standard



Cisco UCS E-Series with VMware vSphere replaces multiple tower servers and separate network infrastructure that complicate IT, diverting resources from business priorities. UCS E-Series plus vSphere combines all the resources organizations need to maintain datacenter-level performance, availability, and business continuity at their remote- and branch-office locations.

Consolidated infrastructure, virtualization, and remote-management extend headquarters IT with a fully-compatible solution that cuts floor space, power, network, and management requirements, while delivering the service levels and management disciplines that employees, customers, and regulatory agencies expect.

Cisco UCS E-Series Features

All-in-One Consolidation

Cisco ISR G2 serves as the networking platform for Cisco UCS E-Series. The ISR G2 provides:

- Compact enclosure for housing x86 blade servers
- Multigigabit switch for connecting virtual servers
- Platform for consolidating all branch-office computing, networking, and virtualization services

Compact x86 Blade Servers

Cisco SRE blade serves as the computing platform for Cisco UCS E-Series. The SRE blades provide:

- Modular, energy-efficient blade-server form factor
- Wire-free, simple, and fast hardware provisioning
- Right-size hardware profile for lean remote and branch offices
- On-demand deployment of the virtualization platform

Server Virtualization

VMware vSphere is the virtualization platform for Cisco UCS E-Series. The SRE-V provides:

- Enterprise production-class bare-metal hypervisor
- Improved application uptime and failure recovery
- Faster deployment time of new or existing applications
- Option for advanced VMware vCenter management services.

Dedicated Blade Management

Cisco IMC Express is the hardware management controller for Cisco UCS E-Series. The IMC Express provides:

- Lights-out management for multiple SRE blades
- Command-line interface and GUI management consoles
- Consistent device management for Cisco UCS Family

Microsoft Windows Server Platform

Cisco SRE blades and SRE-V virtualization platform have passed these Microsoft Windows Server certifications:

- Microsoft Windows Hardware Quality Labs (WHQL)
- Microsoft Server Virtualization Validation Program (SVVP)

Cisco UCS E-Series plus VMware vSphere Benefits

Cisco UCS E-Series plus VMware vSphere offers all-in-one computing, virtualization, and networking for remote and branch offices. The solution combines enterprise datacenter-grade performance, availability, and business continuity in a consolidated, virtualized, remotely-managed solution, reduces space, power, network, management, and travel costs, and reduces Total Cost of Ownership up to 50% savings over a three-year period. The many benefits of UCS E-series include:

Improved Capability

Cisco UCS E-Series plus VMware vSphere raises the standard of remote- and branch-office IT, with:

- Performance to meet local service requirements without excess WAN traffic and latency
- Availability, using VMware vSphere High Availability to fail over or restart production virtual machines
- Business continuity, from redundant application processing as part of a centrally managed cloud

Reduced Complexity

Cisco UCS E-Series offers a compact all-in-one infrastructure that:

- Simplifies office layout, configuration, connections, power and cooling, and maintenance
- Supports “Lean IT” as part of a centrally managed global infrastructure, easing burdens on local management
- Opens the door to efficient, cost-effective hybrid cloud strategies built on the proven VMware platform.

Unparalleled Economy

Compared to current multiple-server approaches, Cisco UCS-E plus VMware vSphere offers:

- Direct savings in hardware, licensing, power and cooling, and other operational costs.
- Reduced support costs by consolidating local support contracts and centralizing management.
- Reduced WAN bandwidth charges, and staff time and travel for local deployment, configuration, and support.