Cisco UCS E-Series Servers and Network Compute Engines

Benefits

- Computing power for hosting network services and mission-critical applications
- Zero-footprint form factor
- Strong physical security
- Quick, easy addition of new services
- Simplified system maintenance
- Lower TCO

Host Network Services and Applications in Your Branch Router

Cisco Unified Computing System™ E-Series Servers and Cisco UCS® E-Series Network Compute Engines (NCEs) combine with your Cisco® branch router to create a convenient all-in-one platform for hosting and virtualizing applications.

This setup could be essential if you need compute capabilities in lean branch offices that match those in your bigger locations. You might need to host many of the same workloads, and increasingly those workloads are mission critical: consider bank teller in-office control points, point-of-sale systems, and electronic medical records systems, for example. Your branch might also need the same types of network services, such as Microsoft Active Directory (AD), Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), Cisco Virtual Wide Area Application Service (vWAAS), Cisco Unity® Connection, and others.

All these capabilities must be supported in a very small space in the branch, and with the UCS servers and NCEs, you'll get the computing power and the zero footprint that you need. The x86 64-bit blade servers are virtualization ready. They host both essential infrastructure services and mission-critical business applications. You can place them in existing Cisco Integrated Services Routers Generation 2 (ISR G2) or Cisco 4000 Series Integrated Services Router (ISR) networking platforms.

Data Center-Class Computing for Your Branches

Cisco UCS E-Series Servers are available in single-wide and double-wide modules. Both are high-density, single-socket blade servers that balance simplicity, performance, and application density.

They both constitute excellent platforms for introducing virtualization into branch offices and supporting mission-critical business applications. In conjunction with their Intel Xeon E5-2400 and E3-1100 processors, the servers lower your total cost of ownership (TCO), increase business agility, and enhance reliability when compared to standalone rack-mount and tower servers.

Next Steps

For more information, please visit http://www.cisco.com/go/ucse/.

The NCEs offer computing optimized for both power and price. They are available as a single-wide service module, as a network interface module (NIM), and as a double-wide enhanced high-speed wan interface card (DW-EHWIC):

- Like the Cisco UCS E-Series Servers, the NIM service modules fit into the ISR G2 and 4000 Series ISR platforms. They contain a high-performance, power-efficient Intel Pentium processor B925C.

- The NIM fits in the 4000 Series ISR networking platform only. It runs the Intel Atom processor C2518 and is available in versions with a variety of DRAM and hard-disk capacities.

- The DW-EHWIC fits in the ISR G2 networking platform only. It runs the Intel Atom processor C2358 and is available in versions with a variety of DRAM and hard-disk capacities.

All NCEs are suitable for hosting Cisco network applications and other lightweight applications in your branch office.