Cisco UCS X-Series Direct

Overview

Some people think Cisco UCS® is only for larger commercial or enterprise business. Like its predecessor UCS Mini, UCS X-Series Direct brings all the benefits of an award-winning modular system to customers needing smaller server environments.

Cisco® UCS X-Series Direct transforms the Cisco UCS X-Series Modular System into a self-contained system with a pair of integrated fabric interconnects and up to 20 servers. For customers with multiple locations, Cisco Intersight® is the preferred management platform, as it can seamlessly manage every chassis. Alternatively, Cisco UCS Manager may be used for systems management.

With the capability to incorporate future technologies, you can easily update all the components while preserving your investment in the Cisco UCS X9508 Chassis and optional Cisco UCS X-Fabric Technology. This is a more sustainable solution and reduces your TCO.



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Benefits

- Ideal for deployments at edge, remote branch but datacenters as well.
- No need for top-of-rack Fabric Interconnects which reduces the overall system costs.
- Up to 100G networking for the most demanding applications.

Cisco UCS X-Series Direct can be used if you don't want top-of-rack fabric interconnects and to support all your edge, retail, small/remote office, and datacenter use cases today. You can configure servers, GPU accelerators, networking, and storage to propel use cases, including:

- AI/ML inferencing, with up to six compact GPUs per server, or up to two full-length, full-height GPUs.
- Data protection onto NVMe storage to guard mission-critical data and enable rapid restores in the event of a failure or ransomware event.
- Hyperconverged infrastructure with Nutanix that requires large amounts of local storage.
- Virtual Desktop Infrastructure (VDI) that you can deploy close to users, and ensure a smooth user experience with optional GPU rendering.
- Cloud-native, containerized environments with support from the Red Hat OpenShift Container Platform.
- Virtualized environments such as those supported by VMware vSphere 9.0.
- Converged infrastructure solutions that integrate enterprise shared storage from our leading storage partners

What it does

Cisco UCS X-Series Direct is made up of the following items:

- Cisco UCS X9508 Chassis
- Two Cisco UCS Fabric Interconnect 9108 100G

One or more of the following servers:

- Up to eight two-socket Cisco UCS X215c M8 Compute Nodes
- Up to eight two-socket Cisco UCS X210c M6/M7/M8 Compute Nodes
- Up to four four-socket Cisco UCS X410c M7 Compute Nodes

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Learn more

For additional information on Cisco UCS X-Series Direct, refer to the solution overview or data sheet.

For information on UCS X-Series, visit cisco.com/go/ucsx.

Systems management:

- Cisco Intersight Infrastructure Service (preferred)
- Cisco UCS Manager

Optional components:

- Systems management:
  - Second Cisco UCS X9508 Chassis with X-Series Compute Nodes and Cisco UCS 9108-100G Intelligent Fabric Modules
  - Cisco UCS 9108-100G Intelligent Fabric Modules
  - Up to four C-Series Rack Servers
    - Cisco UCS C220 M7
    - Cisco UCS C220 M8
    - Cisco UCS C225 M8
    - Cisco UCS C240 M7
    - Cisco UCS C240 M8
    - Cisco UCS C245 M8
- Cisco UCS C245 M8Cisco UCS 9416 X-Fabric Modules (PCIe Gen4) with Cisco UCS X440p PCIe Node with up to four compact GPUs or up to two full-length, full-height GPUs

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CSM-6316 09/25-AN