MetaFabric™ Architectures
2.0 – Enterprise Private Cloud Data Center

Create an enterprise private cloud environment that provides a single point of control for both the physical and virtual components of the network.

One benefit of a Virtual Chassis Fabric (VCF) is that there are no physical restrictions on where you can connect devices; you can use both the spine and leaf switches to connect servers, routers, or any other device. When creating a small to medium-sized data center, port flexibility creates a distinct advantage because a single fabric can connect all servers, storage, firewalls, and even the Internet and WAN.

### What's Different in MetaFabric Architecture 2.0?

- **One benefit of a Virtual Chassis Fabric (VCF) is that there are no physical restrictions on where you can connect devices; you can use both the spine and leaf switches to connect servers, routers, or any other device. When creating a small to medium-sized data center, port flexibility creates a distinct advantage because a single fabric can connect all servers, storage, firewalls, and even the Internet and WAN.**

- Supports software-defined networking (SDN) with Virtual Extensible LAN (VXLAN) integration.
- Supports Fast Ethernet, Gigabit Ethernet, 10-Gigabit Ethernet, and 40-Gigabit Ethernet interfaces.
- Full Layer 2, Layer 3, and Multicast support.
- Supports complete VMware NSX 6.1.0 Virtualization and a QFX5100-only VCF.
- MetaFabric Architecture 2.0 Scale
  - Four QFX5100-24Q switches used in a single-mode VCF spine layer
  - End-to-end latency of 2.5 microseconds and 1.44 Tbps of forwarding capacity per switch
  - Six QFX5100-48S switches used in a single-mode VCF leaf layer
  - Line-rate performance of 10-Gigabit Ethernet and 40-Gigabit Ethernet

### MetaFabric Architecture 2.0 Sizing Options

<table>
<thead>
<tr>
<th>Network-Ports</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>Scale Out-6 PODs</th>
<th>Scale Out-12 PODs</th>
<th>Scale Out-32 PODs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hosts</td>
<td>96x10-Gigabit Ethernet</td>
<td>768x10-Gigabit Ethernet</td>
<td>1,344x10-Gigabit Ethernet</td>
<td>8,064x10-Gigabit Ethernet</td>
<td>21,504x10-Gigabit Ethernet</td>
<td>43,008x10-Gigabit Ethernet</td>
</tr>
<tr>
<td>Virtual Machines</td>
<td>4,800</td>
<td>38,400</td>
<td>67,200</td>
<td>403,200</td>
<td>1,075,200</td>
<td>2,150,400</td>
</tr>
</tbody>
</table>

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**Get the MetaFabric Architecture 2.0 Network Configuration Example (NCE)**

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