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**Welcome
To
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Introduction to New
Spine and Leaf**



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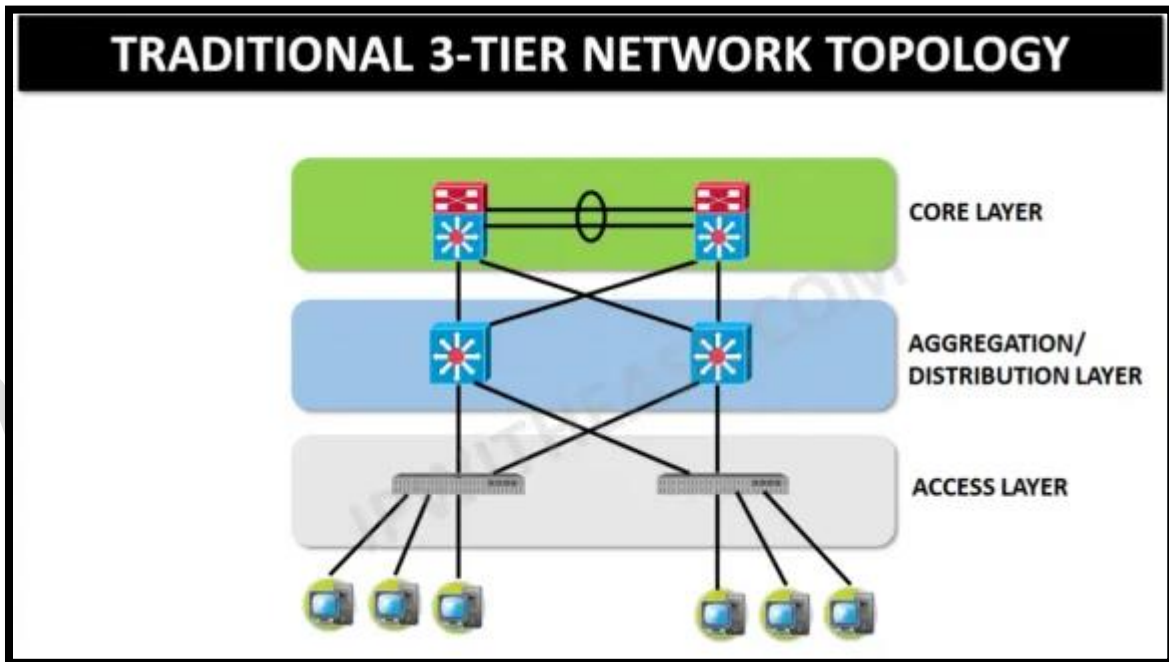
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What are Spine and Leaf?

Spine and Leaf is a two-layer network topology with the following 3 layers.

1. Access Layer
2. Aggregation/Distribution Layer
3. Core layer



- The Access Layer connects to the end devices (e.g. clients and servers).
- The Aggregation/Distribution Layer redundantly interconnects Access Layer switches and provides redundant connections to the campus backbone (i.e. the Core Layer).
- The Core Layer then provides very fast transport between Aggregation/Distribution Layer switches.
- However, when we talk about leaf- and – spine network topology, it is a 2-tier network topology

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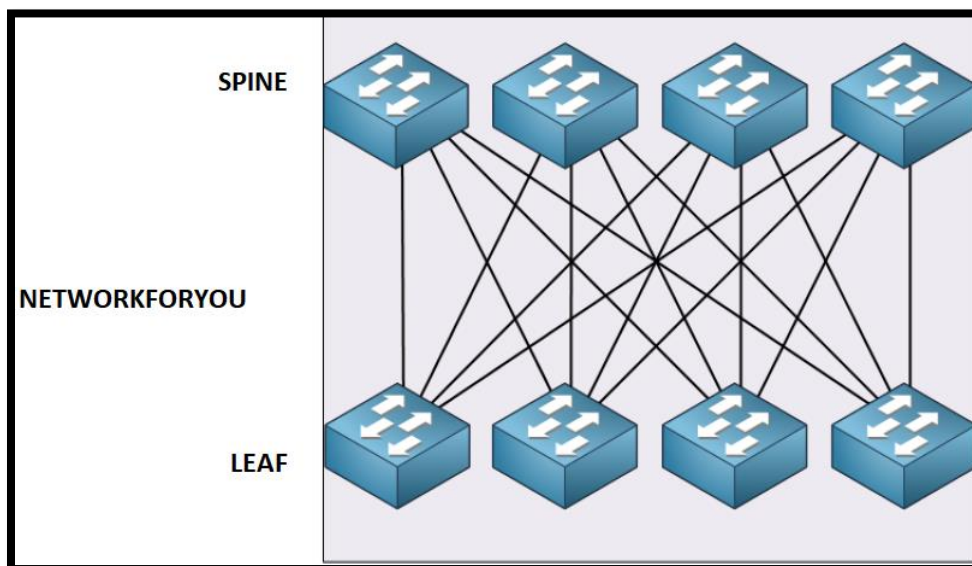
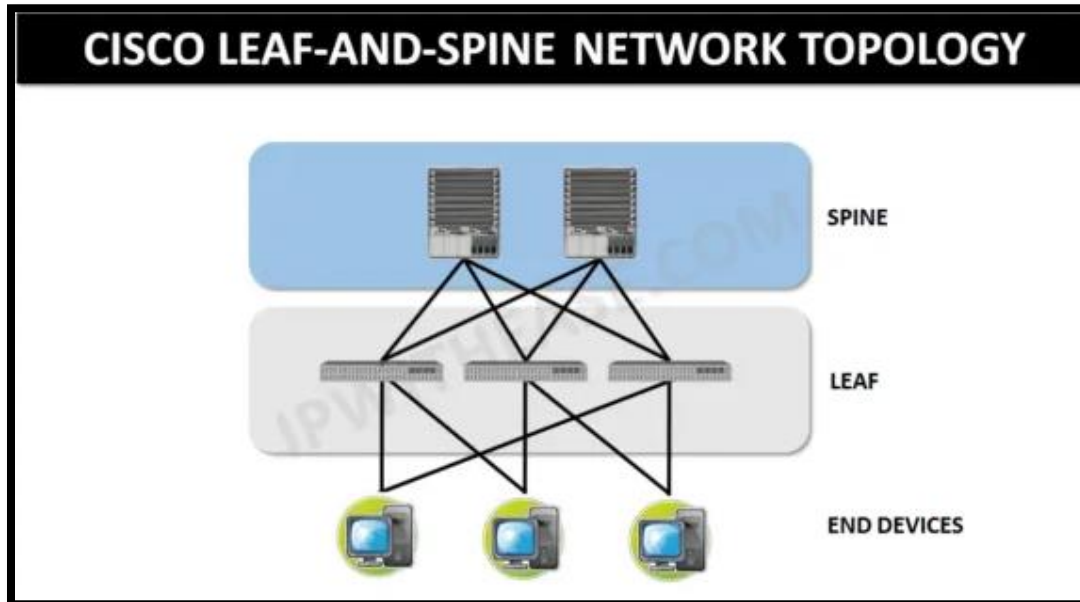
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The topology is composed of –

- 1) leaf switches (connected to the end devices e.g. clients and servers) representing the Access Layer, and
- 2) spine switches (to which leaf switches connect) replacing the Aggregation/Distribution layer and Core Layer.



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Leaf switches mesh into the spine, forming the access layer that delivers network connection points for servers. Each leaf switch connects to every spine switch. As a result, there's no need for interconnections between spine switches.

It is useful for a data center that experience more east-west network traffic than north-south traffic and caters scalable oversubscription ratios.

The spine-leaf architecture has several advantages:

- Improved redundancy
- Increased bandwidth
- Improved scalability
- Lower cost
- Lower latency and delay

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