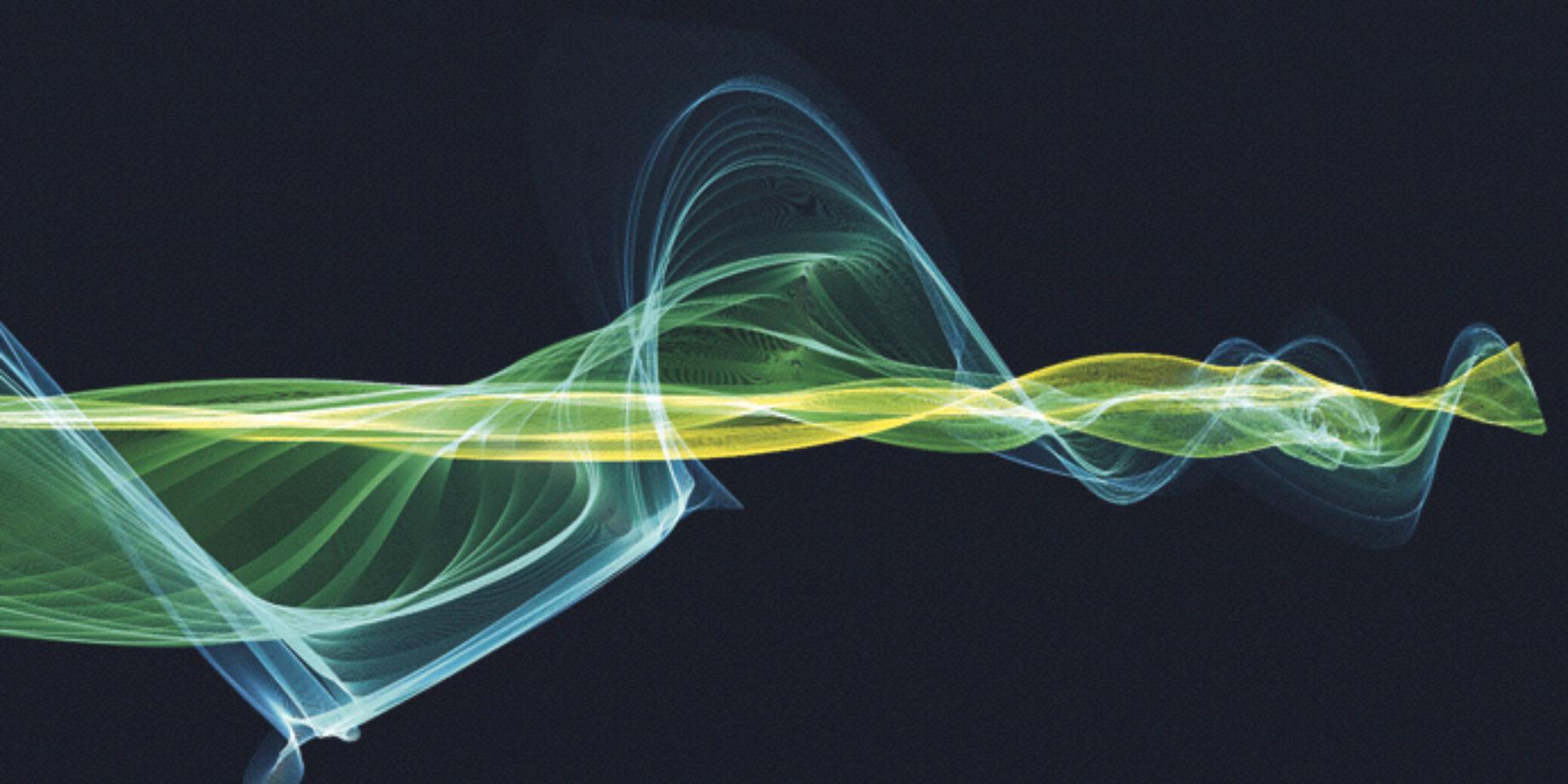


IP-Fabrics Next Gen Networks



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Infrastructure Archmage

DENOOG7

Facts



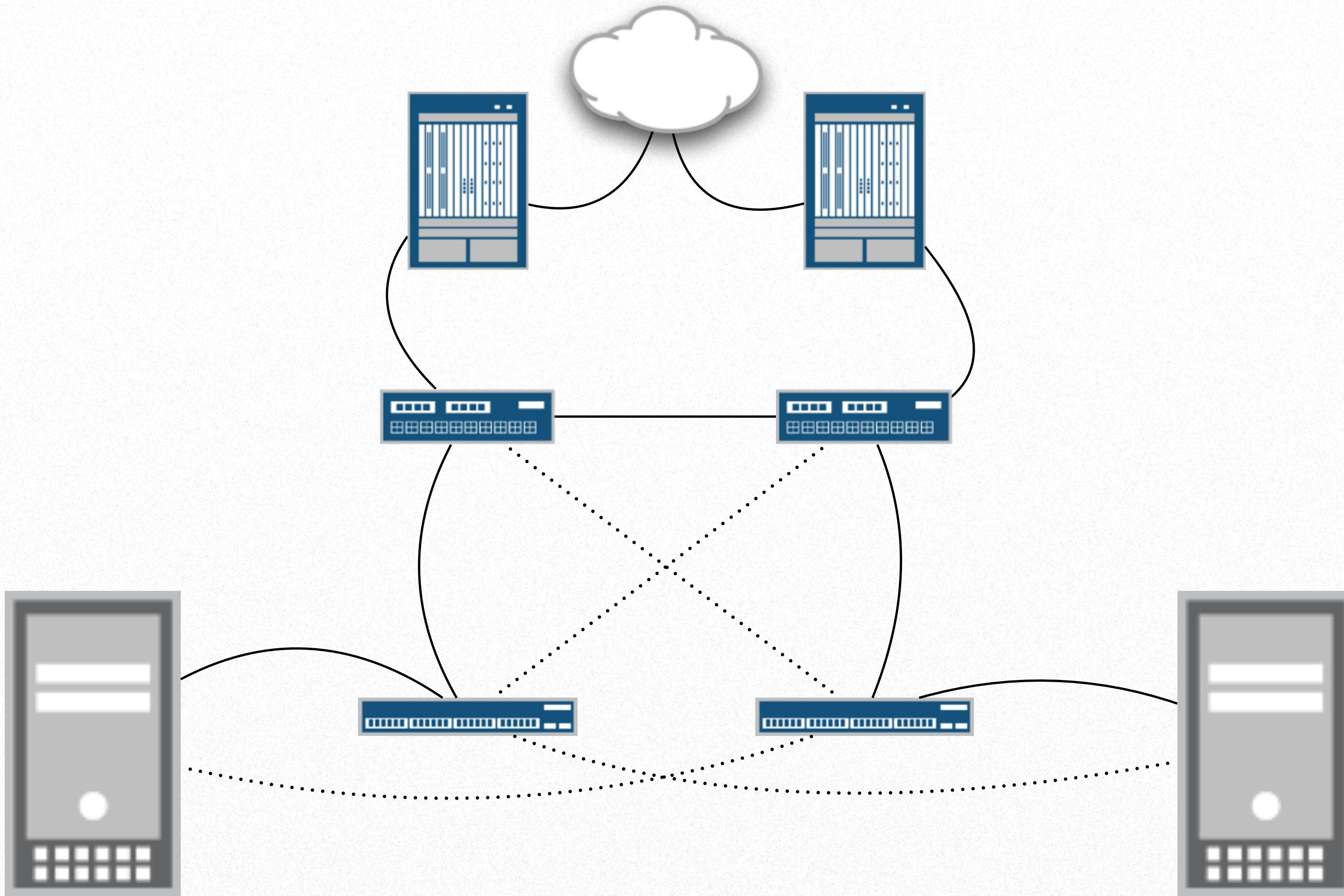
The switch



What does it do?

Drop it, forward it, replicate it.

Layer 2 - tested and EOLd



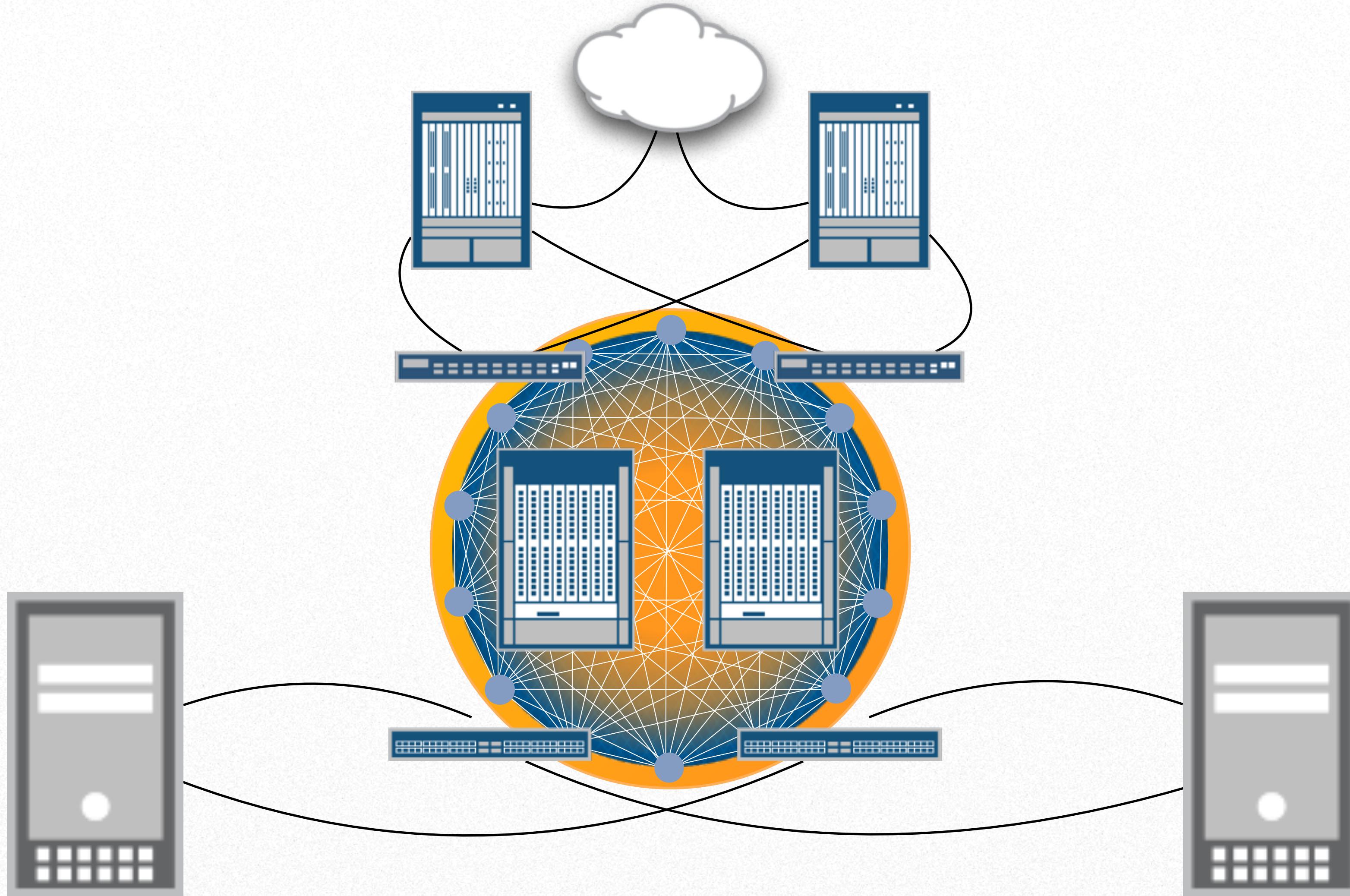
The pain

Redundancy?

Scalability?

Maintainability

Macgyver the old - proprietary fabrics



New pain

Proprietary!

“One” Device!

Scalability?



Lucid
Dreams



**46 RUs
21 Server
1008 Cores
7kW Power
Uplink: ??**



The next level: IP Fabric
The next layer: IP-Fabric

“The internet itself has solved all the networking problems we have in a datacenter.”

The internet

Redundancy: ✓

Scalability: ✓

Vendor independent: ✓

Proven technology: ✓

The problem





Welcome to 2015



Honey, I shrunk the router!

The router



What has happened to my L3-switch?

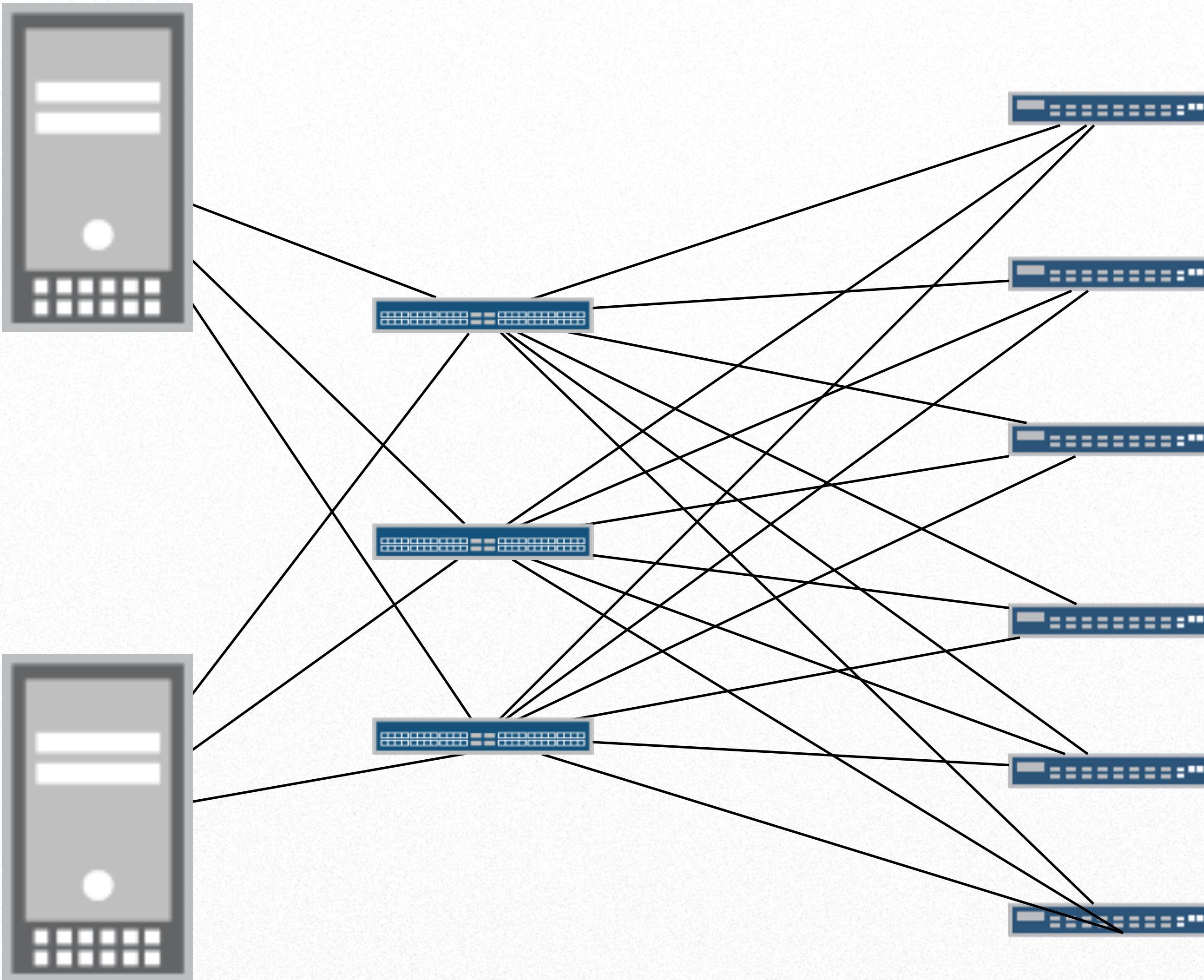
Full Layer 3 features

BGP/OSPF/ISIS - you name it.

ECMP

Lost the VLAN

Let's route!



Challenges

Understand IP.
Understand IPv6.
Understand routing & protocols.
Learn new troubleshooting techniques.
Understand your application migration path.
Explain to security that central firewalls are no longer feasible.

Q & A