

# One Network OS, Many Use Cases

Proven deployment models for Fabric and Monitoring

## Pluribus Netvisor® OS

Pluribus Networks advances software-defined networking (SDN) through Netvisor®, the industry’s most programmable, open source-based network operating system. Netvisor is based on a highly available, scalable, and distributed controller Virtualization-Centric Fabric (VCF™) architecture.

Netvisor is designed to run your Layer 2 and Layer 3 networking both more efficiently and at a lower cost than traditional switching infrastructure. It provides unparalleled agility, insight and security for your datacenter networking that eliminates the need for tap or broker infrastructure.

## Multi-site Fabric with DCI and Analytics

Pluribus instituted a multi-site datacenter fabric compatible with a 3<sup>rd</sup> party core network that won out over much more costly Data Center Interconnect (DCI) solutions.



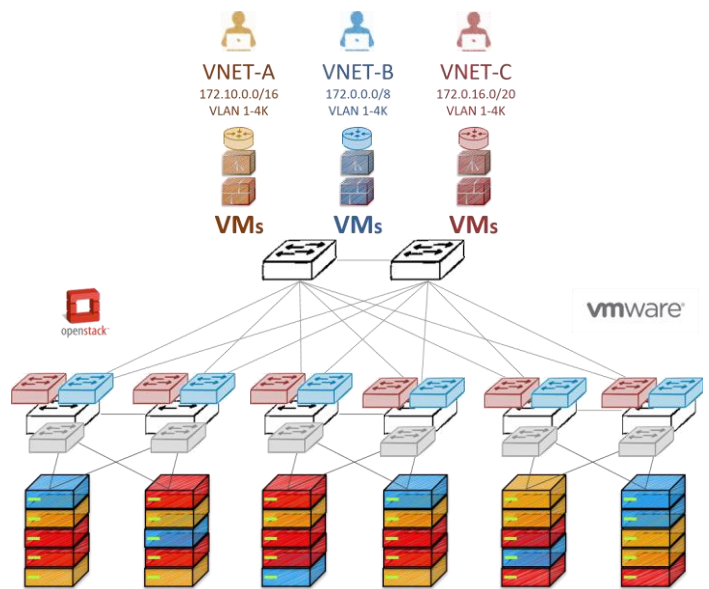
### Why Pluribus:

- Multi-site fabric
- Single point of management
- Disaster Recovery capabilities:
  - Layer-2 extension for VM mobility/DR
  - High-availability
  - Fast failover
  - Broadcast suppression
- Interoperable in a 3<sup>rd</sup> party core network
- Cost - Replaced expensive solutions for traditional DCI
- Visibility – end-to-end of tunneled flows
- All-in-one

## SDDC / Private Cloud with secure vPODs and Tenant Isolation

Pluribus implemented distinct virtual networks (VNETs) across two data centers taking advantage of network virtualization based on our Virtualization-Centric Fabric (VCF™) – in essence establishing a Software-Defined Data Center (SDDC) and private cloud. Ultimate flexibility was provided to grow the VNETs to any size.

Pluribus was able to capture information regarding network performance for mission critical applications eliminating any mission-critical-related complaints across the two datacenters.



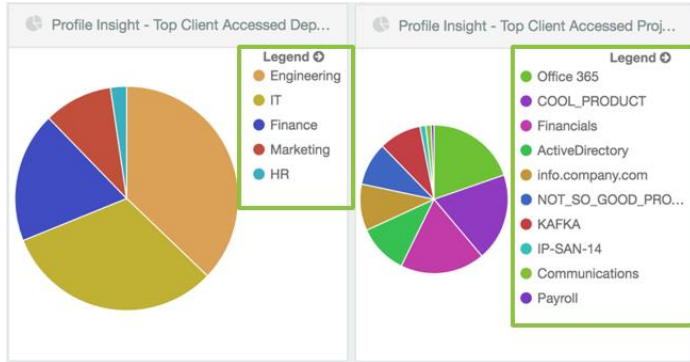
### Why Pluribus:

- Per tenant, independent, secure vPODs (overlapping prefixes and VLANs!)
- Control-data-management plane per tenant isolation
- Fabric operational simplification with single point of management
- Standard networking for interoperability
- Connection analytics and visibility
- Choice of Hardware
- All-in-one

## Network Analytics with Flow Tagging

Pluribus was able to plug an open networking switch running Netvisor® and our VCF Insight Analytics application to a 3<sup>rd</sup> party network.

The result was flow-based information on their business applications that the network team could see, analyze and drill down on almost immediately.



**Flow tags** - flow analytics based on custom tags for business applications, projects, platforms, owners, corporate initiatives, corporate priorities, etc.

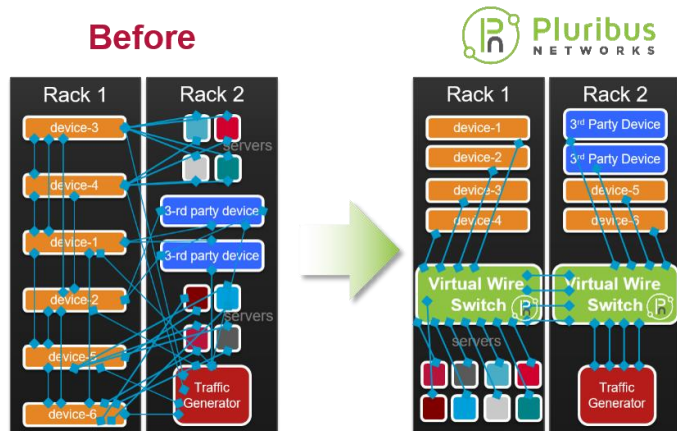
### Why Pluribus:

- Only Pluribus could tag flows with customer defined “project” profiles
- Far less expensive vs. competition
- Far more flexible vs. competition

## Layer 1 Lab Cable Simplification

Pluribus was able to cut 30% of Lab setup times while increasing infrastructure utilization 300% with our Virtual Wire solution.

Rack and Cable once and implement any topology dynamically.



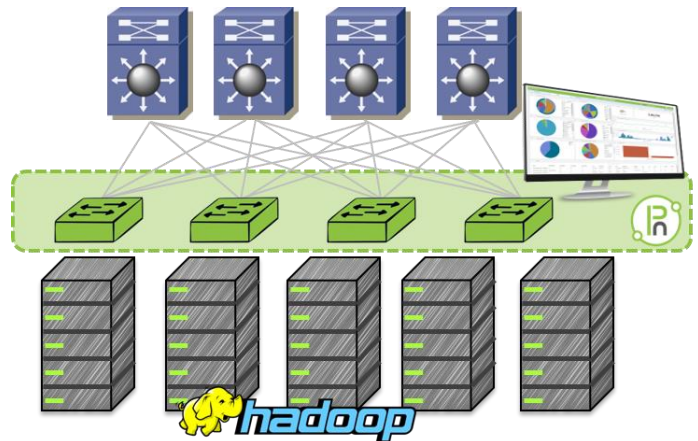
### Why Pluribus:

- Completely transparent and invisible to the network
- Flexible, intelligent fabric-wide flow programming and tracking
- Built-in flow analytics
- REST API programmability
- Merchant silicon economics
- All-in-one

## Hadoop Fabric Leaf on 3<sup>rd</sup> Party Spine

For a 100 node Hadoop cluster, Pluribus deployed 10GbE Top-of-rack switches with a distributed architecture, software-defined Fabric with 40GbE uplinks to a 3<sup>rd</sup> party network.

Was able to save \$500k+ in Capex and \$500k+ in Opex.

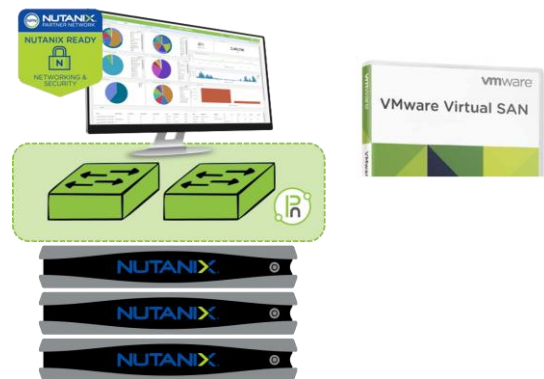


### Why Pluribus:

- Fabric automation to simplify provisioning
- Fabric-wide CLI simplified troubleshooting
- Workload visibility
- Choice of hardware
- Ability to work with existing Layer-2, Layer-3 gear in-place
- All-in-one

## Hyperconverged Storage Visibility

Pluribus was able to add visibility into an expanding Nutanix deployment across two data centers. Pluribus provided flow data at the hypervisor level for VMware vCenter for intra-guest communication and with the Nutanix environment.



### Why Pluribus:

- VMware vCenter visibility (VM, Host, vNIC Stats, Virtual Switches)
- Analytics for Nutanix: visibility to CVM restarts, VM mobility events, Cluster usage and reallocations
- Extremely affordable
- All-in-one