Make It Real

Experience the power of 7 technology leaders, all in one place.
Embrace Cloud Networking
Building the Business Fabric of the Digital Enterprise

Alexandre Stratikopoulos
SDDC Senior Systems Engineer
VMware Brazil
astratikopoulos@vmware.com / @astratikopoulos
Market Trends

- **50%**: Enterprise app outside data centers
- **90%**: Data and processing at the edge
- **69%**: Enterprises are challenged with multi-cloud
- **95%**: Enterprises believe their network services must be virtualized
We now live in a hyper-connected world.
Traffic Patterns
“The network architecture that has served us well for the last 20 years is not the network that will bring you forward into the next 20” - Gartner
DIGITAL TRANSFORMATION
is changing the requirements of enterprise networking
Fragmented across domains
Hard to manage policies

Policies follow the data and application regardless of location

Services managed by IT (CLI)

Services defined by developers (API)

Investments driven by refresh cycles

Business needs drive investment

Security bolted on and managed at the data center perimeter

Security built in and tied to application and data
The Network Approach of the Past 20 Years

Built to meet the needs of specific infrastructure environments (DC, Campus, Branch)

Flexible, programmable network fabric designed to run everywhere that applications and data reside

What’s Needed: A New Network Approach for the Next 20+ Years
What if we used the fundamentals of cloud to define the network and security model for digital enterprises?
What if we used the fundamentals of cloud to define the network and security model for digital enterprises?
The Virtual Cloud Network
The Virtual Cloud Network

Cloud Networking Fabric

Security Architected In

Network Delivered in Software

End-to-end consistency from data center to branch to cloud
VMware’s long history of addressing IT complexity and operations through software positions us uniquely to deliver the next network for the digital era:

Virtual Cloud Networking
VMware Advancing Business Transformation with Networking and Security in Software

Virtual Cloud Network

- Ready for the future
- Public Cloud
  - AWS, IBM and Azure
  - NSX SD-WAN by VeloCloud
  - NSX Hybrid Connect
- Container Frameworks
- App Security
  - AppDefense
- Connectivity and Hybridity
- Reinvent security
- Reinvent Wide Area Networking (WAN)
- Expand the network
- Multi-Cloud and Multi-Hypervisor
- Automation
  - vRealize Automation
  - Network Insight (Arkin)
- Micro-Segmentation
- NSX
- Network Virtualization
  - Nicira
- Software-Defined Data Center
  - vSphere Distributed Switch
- Rethink networking
NSX

Traffic Insight and Visibility

Run-time Analytics

Advanced Security Enforcement

Connectivity

Any Device, Any Application, Any Cloud
VMware Networking and Security Vision

Consistent networking and security across the business fabric
VMware NSX as the Foundation for the Virtual Cloud Network

### NETWORKING AND SECURITY MANAGEMENT AND AUTOMATION

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### NETWORK AND SECURITY VIRTUALIZATION

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### Any Infrastructure

Any Cloud

Any Transport

Any Application

Any Platform

Network Insight

Network Discovery and Insights

vRealize Automation

End-to-End Workload Automation

NSX Data Center

Networking and Security for all workloads

NSX Cloud

Cloud-Native Network Services

AppDefense

Modern Application Security

NSX SD-WAN by VeloCloud

WAN Connectivity Services

NSX Hybrid Connect

Data Center and Cloud Workload Migration

Any Transport

Any Application

Any Platform

Any Cloud
Multiple Paths to the Virtual Cloud Network

- Consolidate and secure your existing network
- Automate to enable speed and agility
- Network Virtualization
- Extend a common platform
- Multi-cloud and Branch
- Deliver developer — ready infrastructure
- Cloud-native
- App & Data Security
VMware Networking Customer and Partner Momentum

4,500+ NSX Data Center customers
2,000+ NSX SD-WAN by VeloCloud customers
100% YoY growth

Broad Adoption
Small-to-large enterprises across all verticals

60+ Service Providers
Platform for Telco

Networking Community
13,000+ certifications issued; 31,000+ VMUG-NV members

Logos of various companies and institutions, including USAA, Rentokil Initial, AT&T, Microsoft Azure, Vodafone, GORE, Garmin, DBS, Brooks Brothers, CVS Pharmacy, Johnson & Johnson, Centene Corporation, adidas, Kaiser Permanente, Telstra, Accenture, Lloyds Bank, Dell, Inditex, Dimension Data, and Citi.
The Virtual Cloud Network

- **NSX Data Center and AppDefense**: Application Security
- **NSX Hybrid Connect**: Cloud On Boarding and Migration
- **NSX Cloud**: Application Modernization
- **NSX SD-WAN by VeloCloud**: Branch/Edge Transformation
The Virtual Cloud Network
NSX Data Center License

NSX-V

NSX-T
Coexistence

Edge Cluster V
- Compute Cluster V
  - DLR or ESG
  - Hosts Prepped for V

Common Management Cluster
- Manager and Controllers

NSX for vSphere
NSX-T

BGP Peering
- ToR

NSX-V Admin
- DLR or ESG
- Hosts Prepped for V

NSX-V GUI
- vCenter

NSX-T Admin
- Manager and Controllers

NSX-T GUI
- Log Insight

1 Can also be bare-metal Edge
NSX-T Use Cases

New Architectures and Markets
- Containers
- Multi-Hypervisor
- Bare-metal

Hybrid Cloud
- Amazon Web Services
- Azure

Advanced Networking Features and Scale
The Virtual Cloud Network

NSX Data Center & AppDefense
Network Virtualization and Security

NSX Hybrid Connect
Workload Mobility and Connectivity
NSX Hybrid Connect

Data Center to Data Center Migration

Data Center to Cloud Migration

Cloud to Cloud Migration

Any to Any Secure Hybrid Connectivity

Real Time Application Portability and Hybridity

Cloud On-Boarding and Bulk Migration
The Virtual Cloud Network

NSX Data Center & AppDefense
Network Virtualization and Security

NSX Hybrid Connect
Workload Mobility and Connectivity

NSX Cloud
Enterprise Hybrid Cloud & App Modernization
NSX Cloud
The Virtual Cloud Network

- **NSX Data Center & AppDefense**: Network Virtualization and Security
- **NSX Hybrid Connect**: Workload Mobility and Connectivity
- **NSX Cloud**: Enterprise Hybrid Cloud & App Modernization
- **NSX SD-WAN by VeloCloud**: WAN Connectivity & Branch Transformation
NSX SD-WAN by VeloCloud

Branch Edges

Simplified WAN Management

Private /MPLS

SD-WAN Overlay

Internet Broadband

3G/4G LTE

Cloud Gateways
- Purpose built SD-WAN edge for multi-tenant cloud

Datacenter Edges

Assured Application Performance

SaaS / IaaS / Backbone

Managed on-ramp to the cloud
Enterprise Deployments – Over-The-Top

Hub for SD-WAN to data center including private links

Hosted gateways for SD-WAN to SaaS/IaaS

Hub-less design for legacy data centers
The Virtual Cloud Network

Enterprise Data Centers

NSX SD-WAN by VeloCloud
WAN Connectivity Services

NSX Data Center
Networking & Security
or all workloads

NSX Cloud
Cloud Native
Network Services

NSX Hybrid Connect
Data Center and Cloud
Workload Migration (Hybridity)

Branch Sites

Internet
Private Cellular
(4G/5G)

Clouds

SaaS
VMC, IBM
OVH
VCPP
NSX Cloud

Migration

Migration

Migration

Migration

Migration
Demos

New demo site

http://vmware.regalixdigital.com/vcn/