

# **Open Networking Summit**

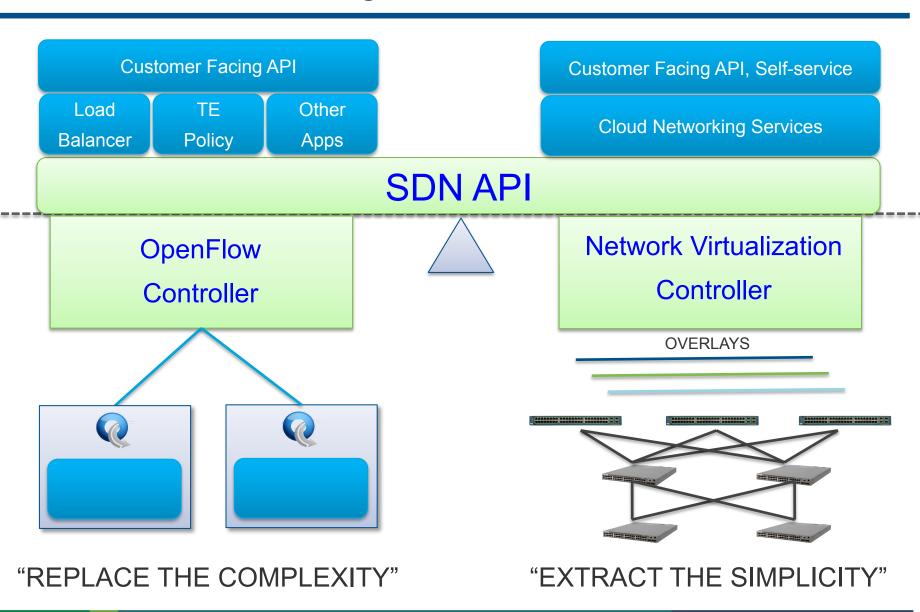
Allwyn Sequeira - CTO and VP, Security & Networking

**VMware** 

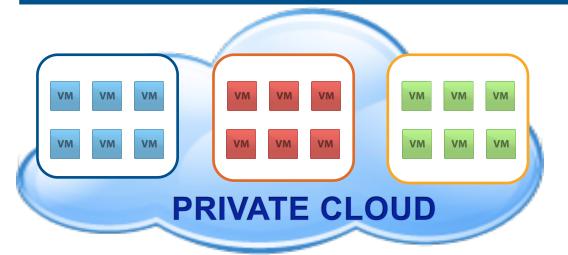
April 2012



## **Software Defined Networking – Two Views**



# **Server Virtualization & Cloud Computing Journey**



#### **Server Virtualization**



**BUT, NETWORKING GETS IN THE WAY** 

#### **Abstraction - Virtualization**

- X86 virtualization
- VM containers

#### **Pooling**

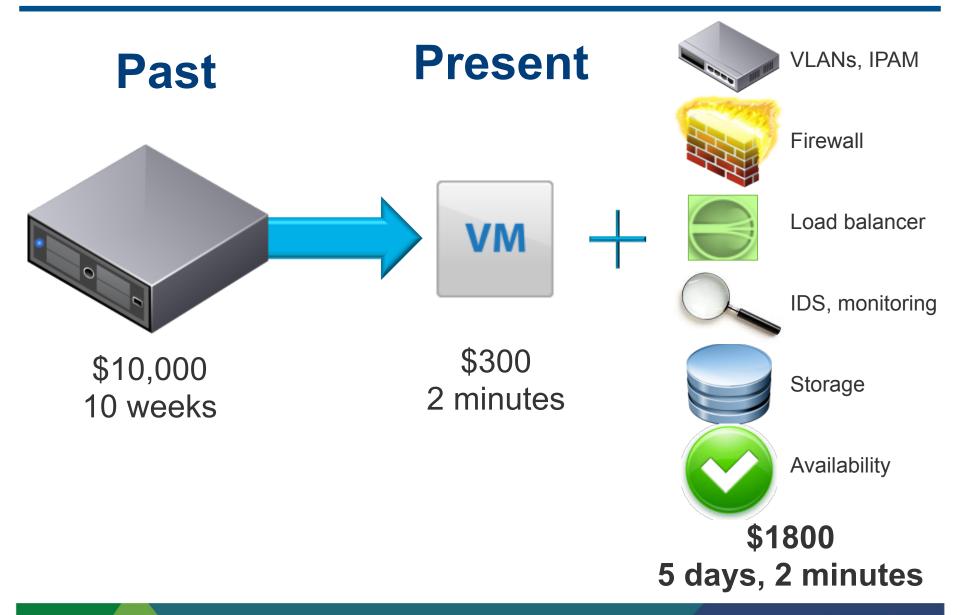
- Hosts and clusters
- Elasticity, mobility (vMotion)

### **Slicing**

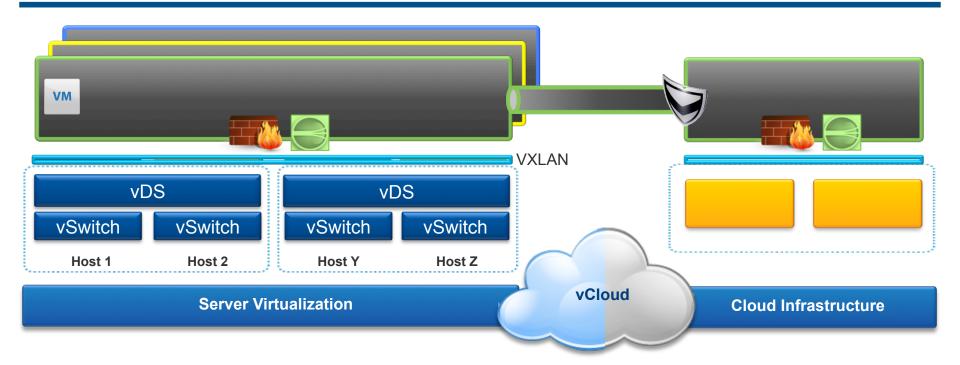
- Multi-tenancy
- Automation & provisioning

#### Cloud

- Private cloud
- App self-service



# SDN: Enabling Network Virtualization & Cloud Networking



- Abstraction: vSwitch started the SDN & network virtualization journey
- Pooling: vDS enabled pooling of network ports across clusters
- Slicing: VXLAN enables instant elasticity across L3, multi-tenancy
- Automation: Consume logical, elastic networks on demand
- Additional Services: FW, LB, VPN, IPAM & logical service insertion

### **Summary**

- SDN & network virtualization deployments are here already
- SDN APIs, OpenFlow will unleash a new wave of innovation
- Thanks to ONF, ONRC for spear heading these initiatives!

