



EUCISE2020 – Infrastructural services

Rome, 25th - 26th January 2018



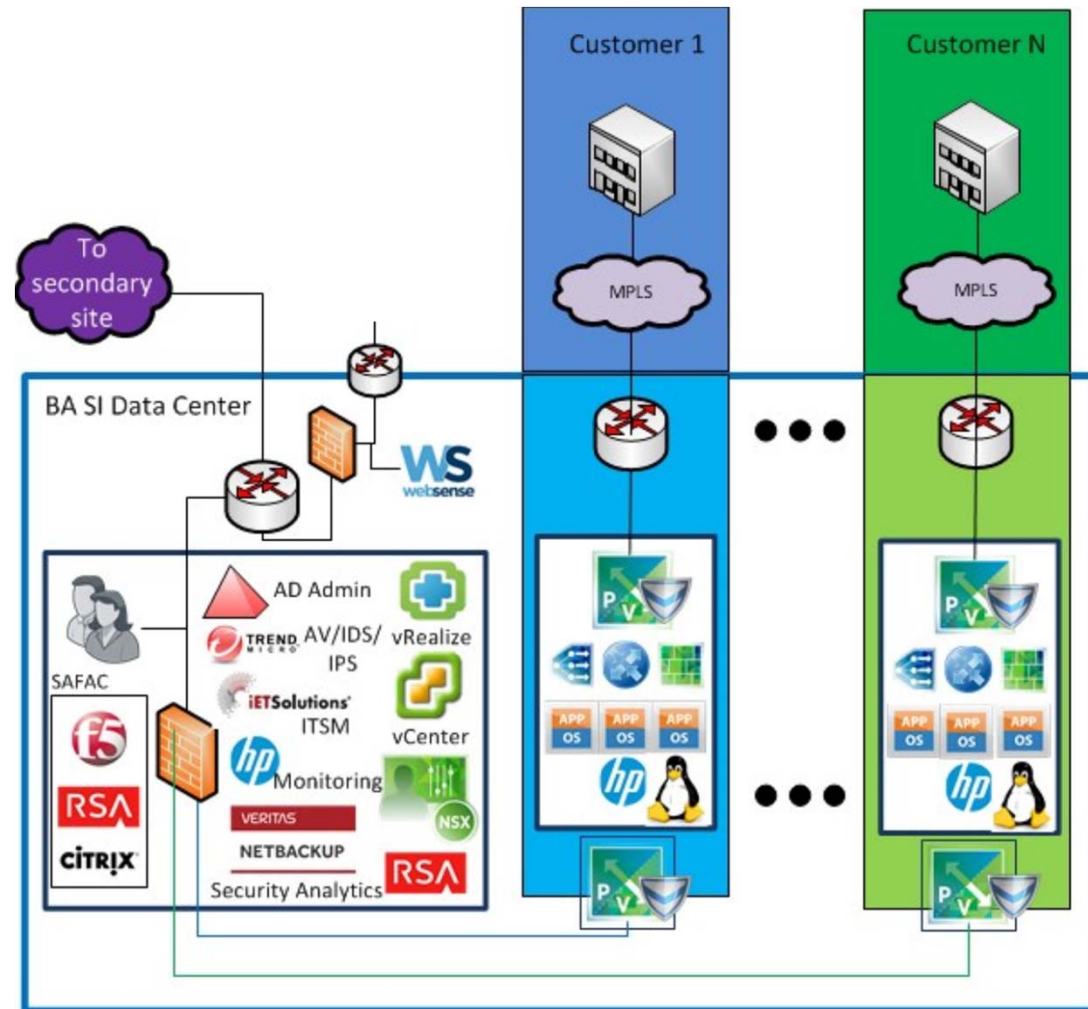
Diapositiva 1

AA1

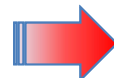
Araghiyan Andrea; 11/01/2018

LEONARDO BA SI SDDC: *Standard Architecture*

- ▶ Tenant come “estensione” della rete Cliente
- ▶ Amministratori del Tenant segregati rispetto ai servizi di supporto
- ▶ Gestione dei servizi mediante soluzioni di disaccoppiamento e strong authentication (F5 + Citrix + RSA)
- ▶ Navigazione internet, da parte degli amministratori di sistema, mediante air-gap browser
- ▶ Pc degli amministratori di sistema connessi ad una rete segregata rispetto a quella aziendale
- ▶ I servizi di supporto (monitoraggio, backup, ecc.) sono gestiti attraverso meccanismi di delega basati sulla gerarchia



Security Focus



Confidentiality, Integrity and Availability

IaaS Cloud Services



Customers, BA Architects and Administrators

Self Service Portal

Micro segmentation with Customer specific security groups

CentOS	SUSE	CPU	1 16	Network assignment	CMDB Integration	H24 Monitoring activation	Firewall & security
Windows Server 2012	Red Hat	RAM	2 512	Monitoring configuration	Backup configuration	NTP, DNS, Join dominio, Administrator Password	
Storage		Storage	40 1,5T				

« Blueprints for specific IaaS roles»		Proxy Service		Active Directory Services		Various specific SAP Roles IaaS instances
---------------------------------------	--	---------------	--	---------------------------	--	---

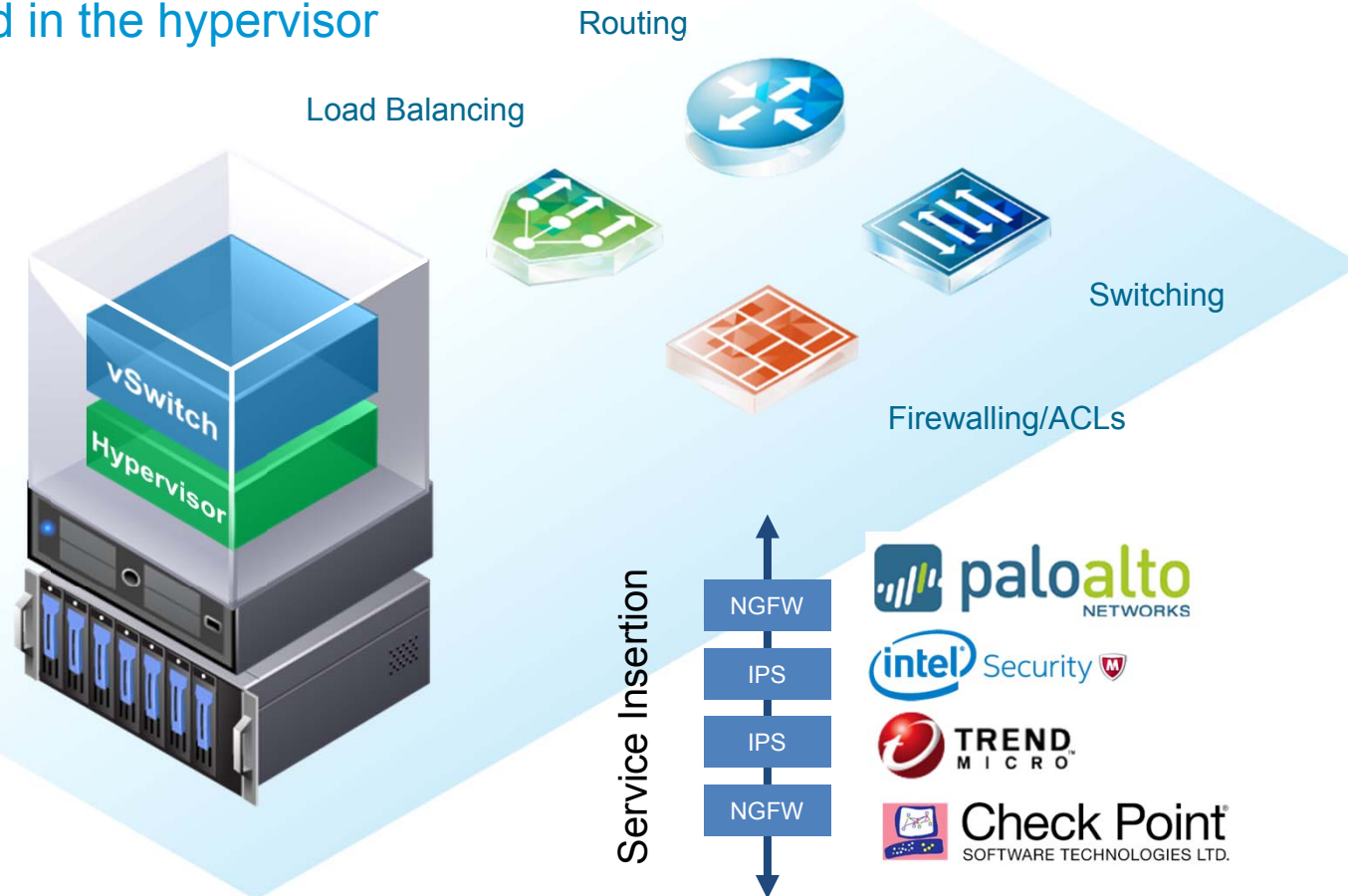
Customer Dedicated Tenant for Application services

BA SI Release Automation

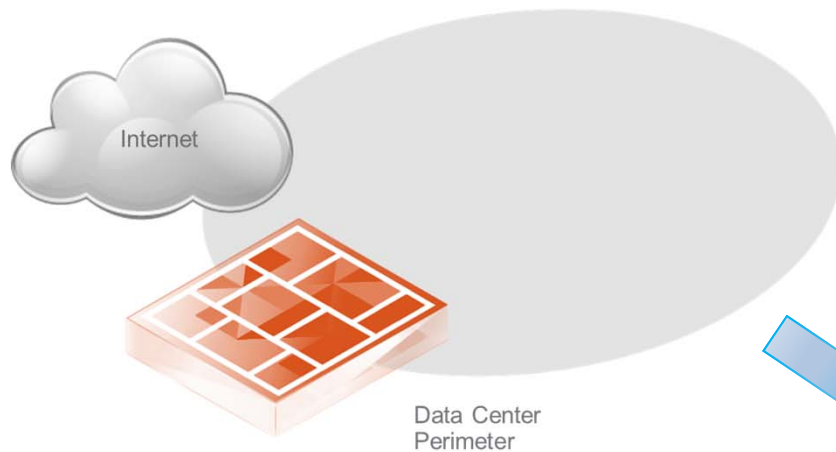
Service: «Deploy a VM, define the resource needed, the Tenant and specific Network and all the «value adding services required». Including specific options for roles on services

Software Defined Data Centre – Network & Security

Network and security services now distributed in the hypervisor

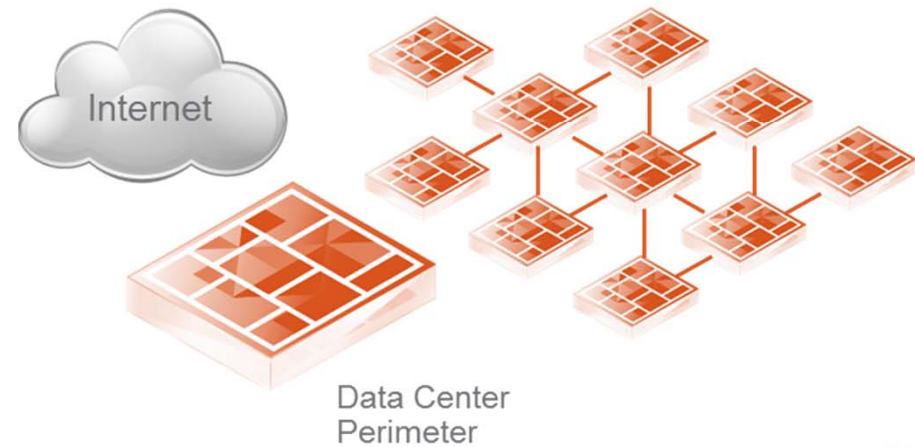


Perimetric-centric security model



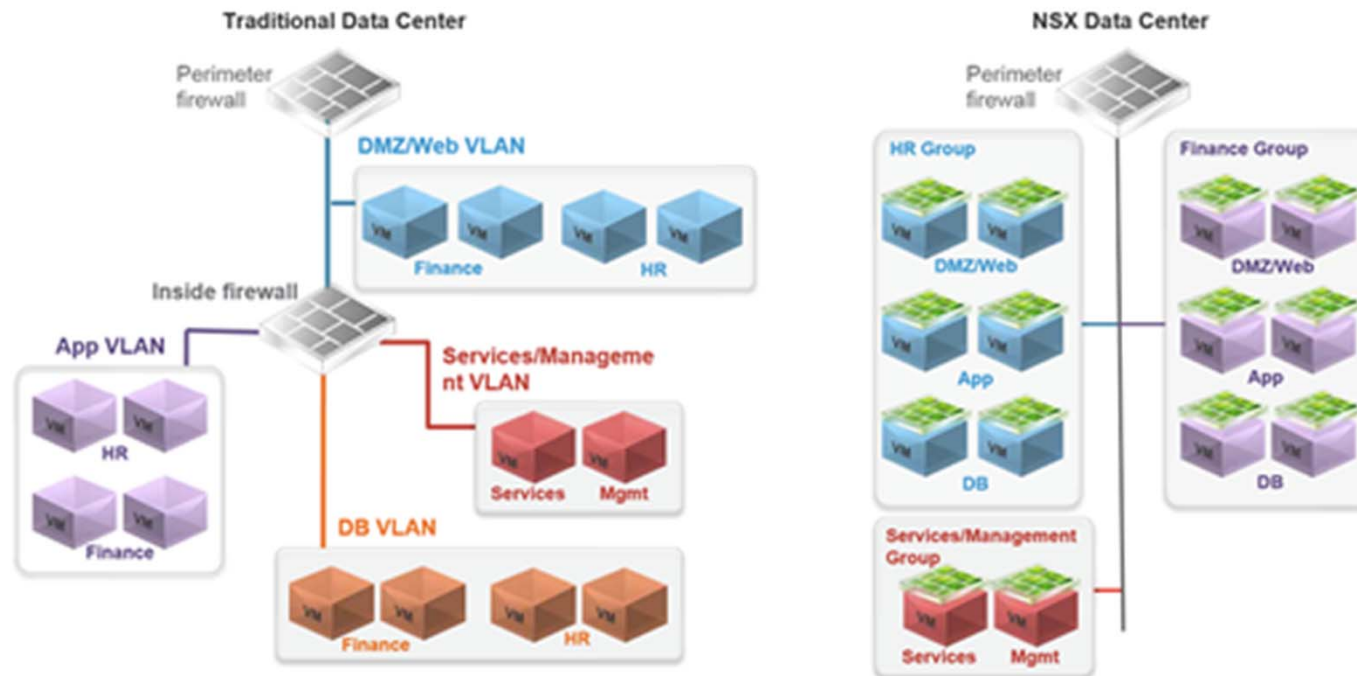
Perimeter-centric network security has proven insufficient

Adding more internal security requires more firewalls across workloads



Software Defined Data Centre – Network & Security

Achieving Micro segmentation with NSX



Virtual Networking VMware NSX

- **Micro Segmentation:** security policies at virtual machine – level
- **Scale-out:** performances can grow in linear progression adding new hypervisor nodes
- **Software-defined:** Everything is done in software: security inspection can be done on every workload and network flow