Laboratório VMware vSphere 7 Na Sua Própria Casa

http://www.expertemti.com.br

SEU COMPUTADOR/NOTEBOOK/SERVIDOR MÍNIMO 32GB RAM

Vmware Workstation 16 PRO

ESXi01
2 Vcpus
6GB RAM
Hostname:
esxi01.labvmware.local
IP: 172.16.0.11

VMware vSphere 7.0 U2

ESXi02
2 Vcpus
6GB RAM
Hostname:
esxi02.labvmware.local
IP: 172.16.0.12

VMware vSphere 7.0 U2

ESXi03
2 Vcpus
6GB RAM
Hostname:
esxi03.labvmware.local
IP: 172.16.0.13

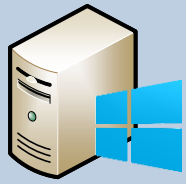
VMware vSphere 7.0 U2

VCSA
2 Vcpus
12GB RAM
Hostname:
vcsa.expertemti.local
IP: 172.16.0.10

vCenter Server 7.0

VSA01
2 Vcpus
1/4GB RAM
250GB HD
Hostname:
vsa01.labvmware.local
IP: 172.16.0.25
IP_iSCSI: 10.0.130.99
VIP: 10.0.130.100

STORAGE HP VSA 12.8



Windows Server 2016
2 Vcpus
1GB RAM
Hostname:
srv-dc.labvmware.local
IP: 172.16.0.100

Active Directory 2016

iSCSI LUN 01
VMFS 50GB

iSCSI LUN 02
VMFS 60GB

iSCSI LUN 03
VMFS 70GB

NFS 01
VMFS 200GB

VML-1 VML-2 VML-3 VML-6
2 Vcpus
512MB RAM
Hostname:
VMx.labvmware.local
IP: 172.16.0.71/72/73

Vcenter Server 7.0

VM-VCSA
2 Vcpus
10GB RAM
Hostname:
vcsa.labvmware.local
IP: 172.16.0.10

VML-5 VMW-1 VMW-
2 Vcpus
512MB RAM
Hostname:
VMx.labvmware.local
IP: 172.16.4.71/72/73

LUNs HP STORAGE VSA

iSCSI LUN 01
VMFS 50GB

iSCSI LUN 02
VMFS 60GB

NFS 01
VMFS 200GB

iSCSI LUN 03
VMFS 70GB

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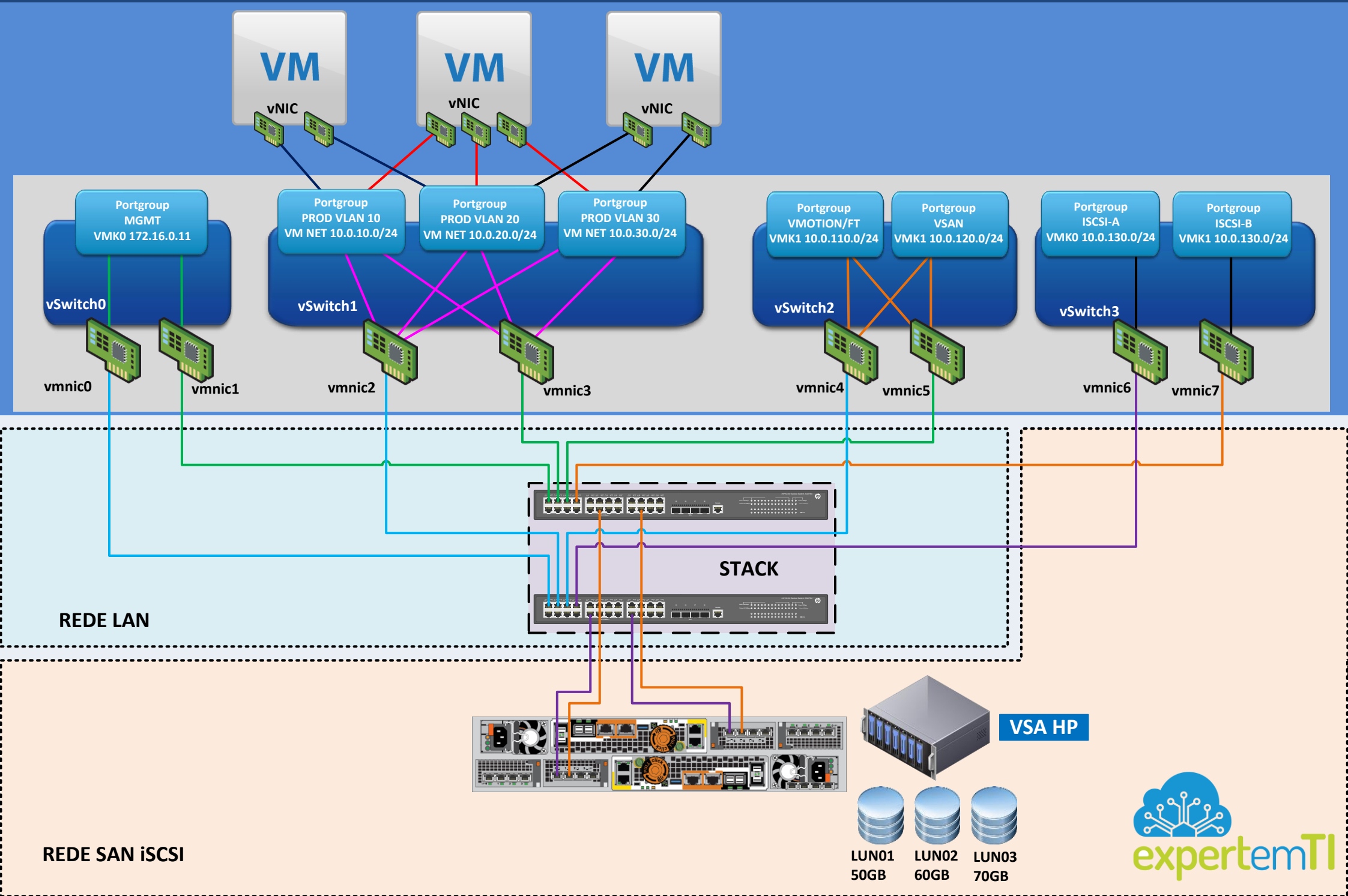
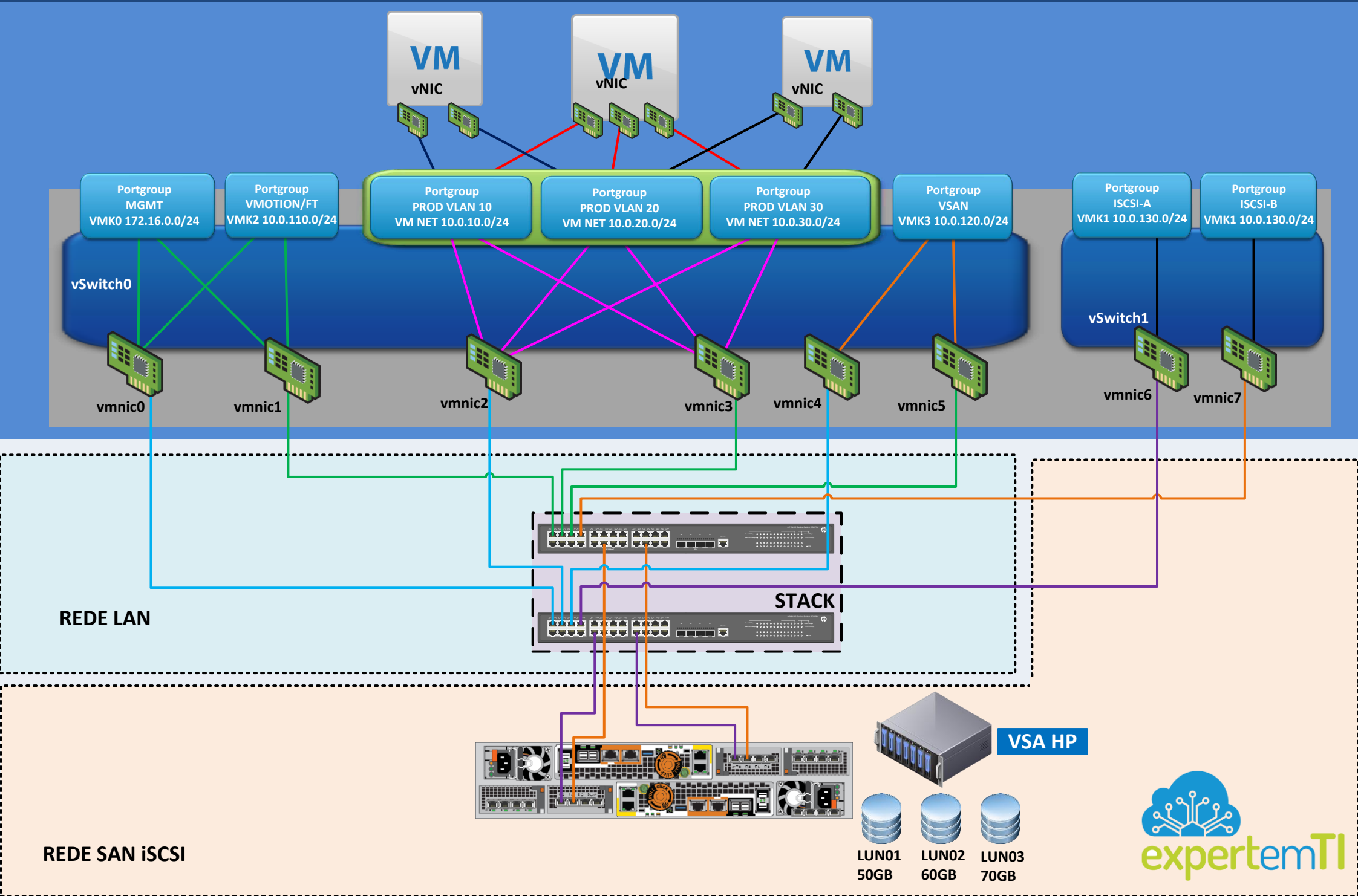
Layout 1 - Standard Switch

http://www.expertemti.com.br



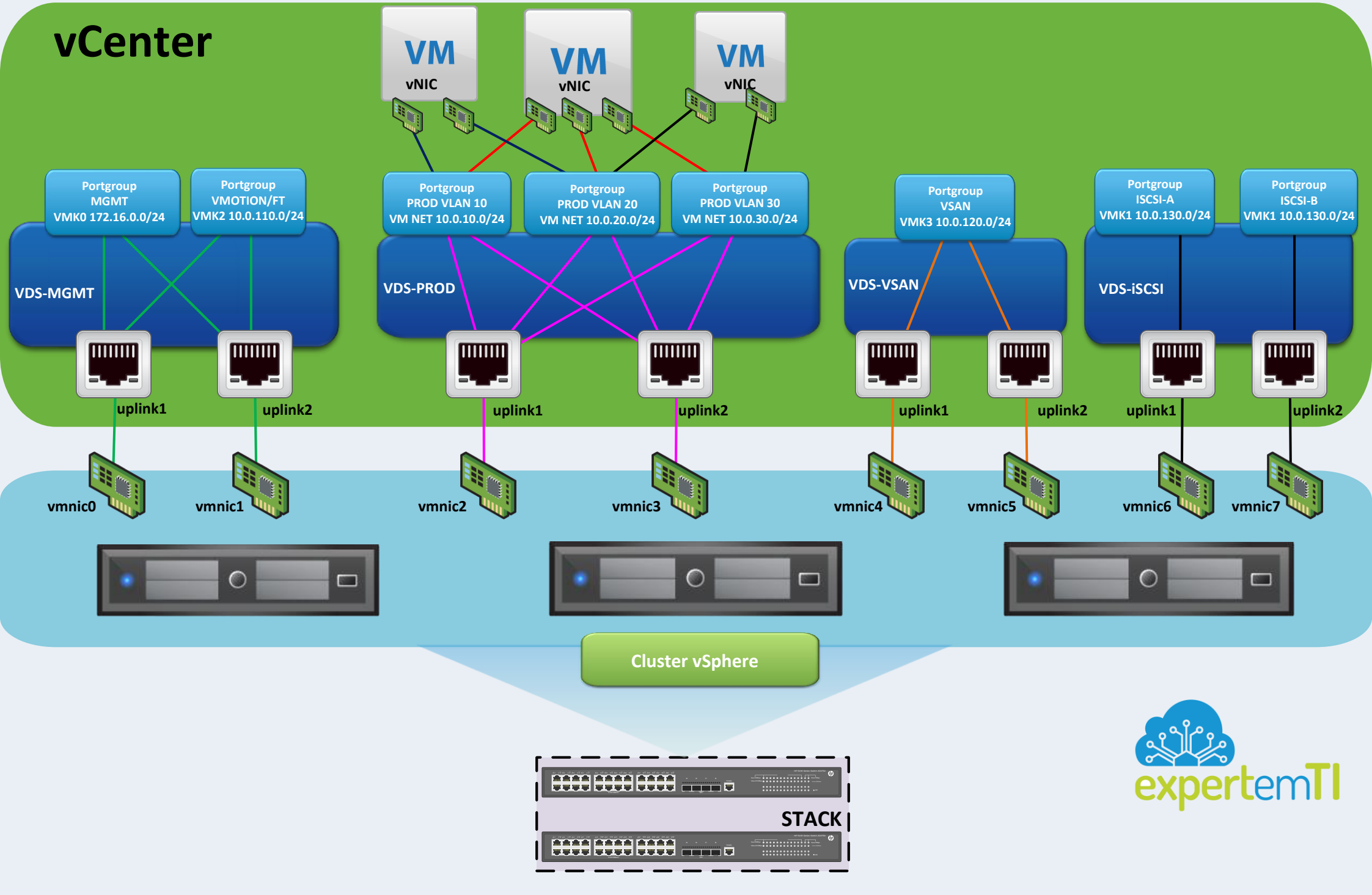
Layout 2 - Standard Switch

http://www.expertemti.com.br



Layout 3 – Distributed Switch

http://www.expertemti.com.br



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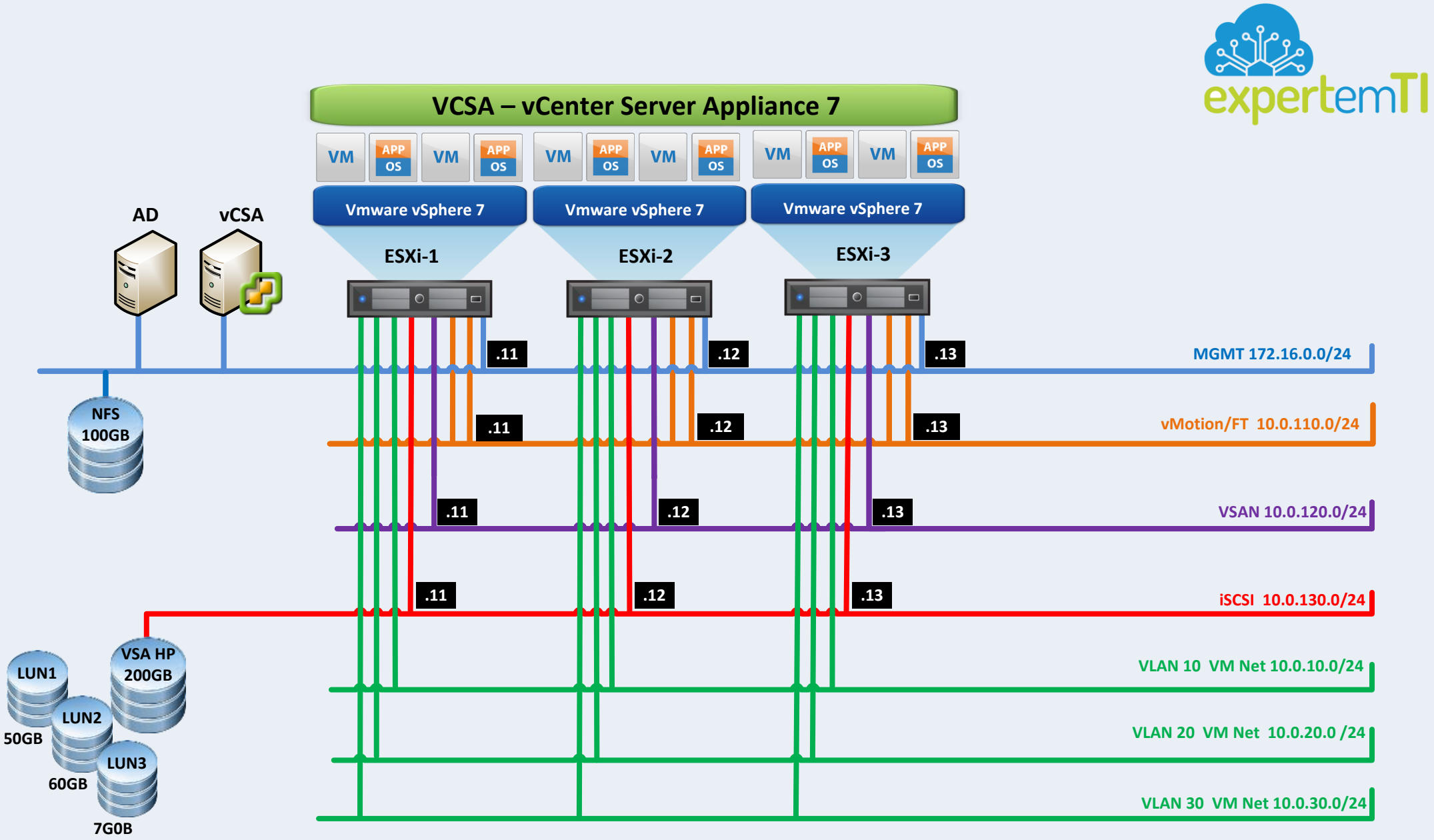
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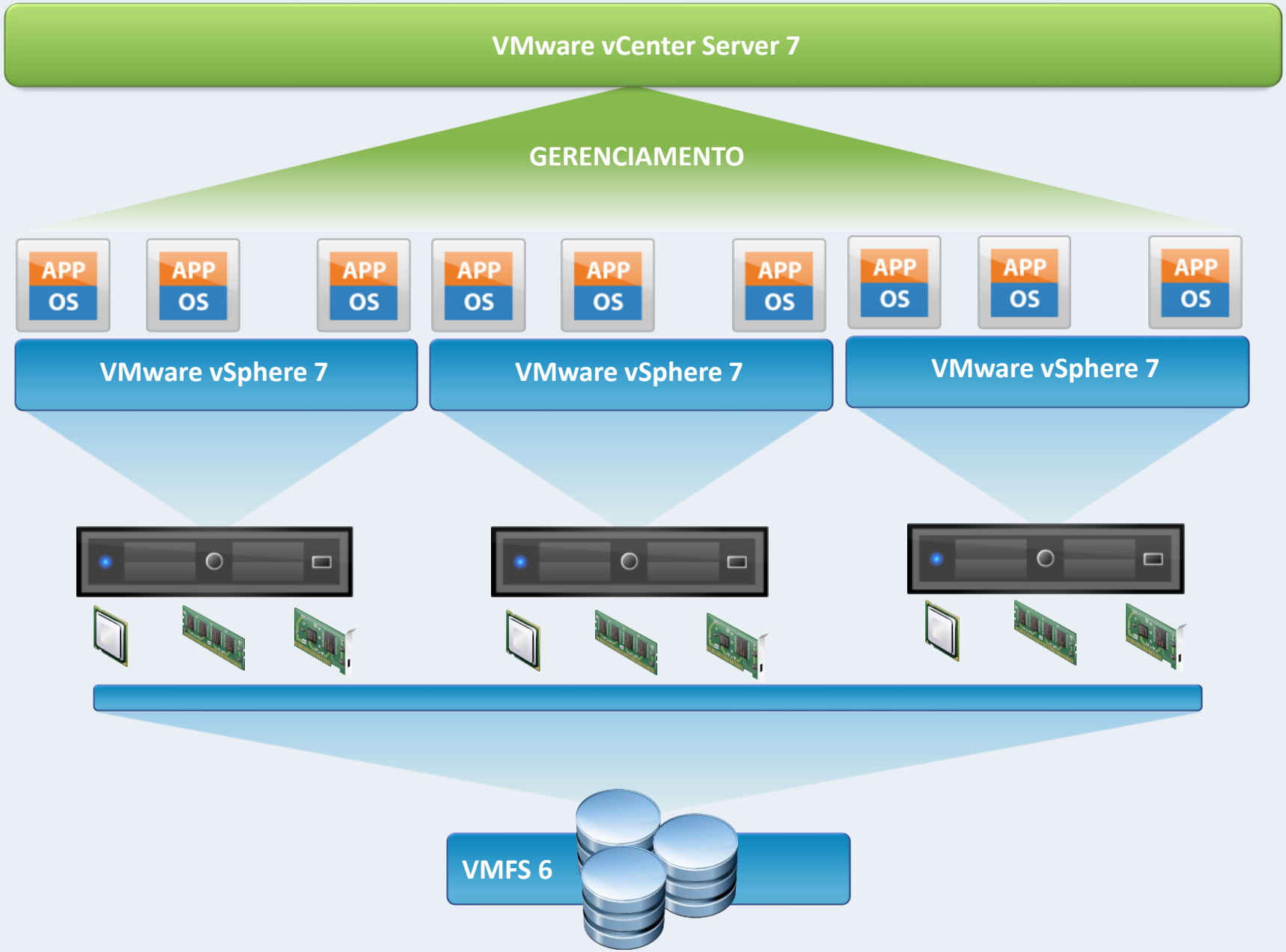
VCSA – vCenter Server Appliance 7
VM
APP
OS
Vmware vSphere 7
ESXi-1
ESXi-2
ESXi-3
AD
vCSA
NFS
100GB
LUN1
50GB
LUN2
60GB
LUN3
7G0B
VSA HP
200GB
.11
.12
.13
MGMT 172.16.0.0/24
vMotion/FT 10.0.110.0/24
VSAN 10.0.120.0/24
iSCSI 10.0.130.0/24
VLAN 10 VM Net 10.0.10.0/24
VLAN 20 VM Net 10.0.20.0 /24
VLAN 30 VM Net 10.0.30.0/24

VMware vCenter 7.0



Autor: John Costa de Araújo
Email: contato@expertemti.com.br

http://www.expertemti.com.br

PROJETO 2x2x1 (Composto por 2x servidores, 2x swtiches, 1x storage e um 1x backup) – CLUSTER TRADICIONAL DE ALTA DISPONIBILIDADE

SERVIDORES – R640

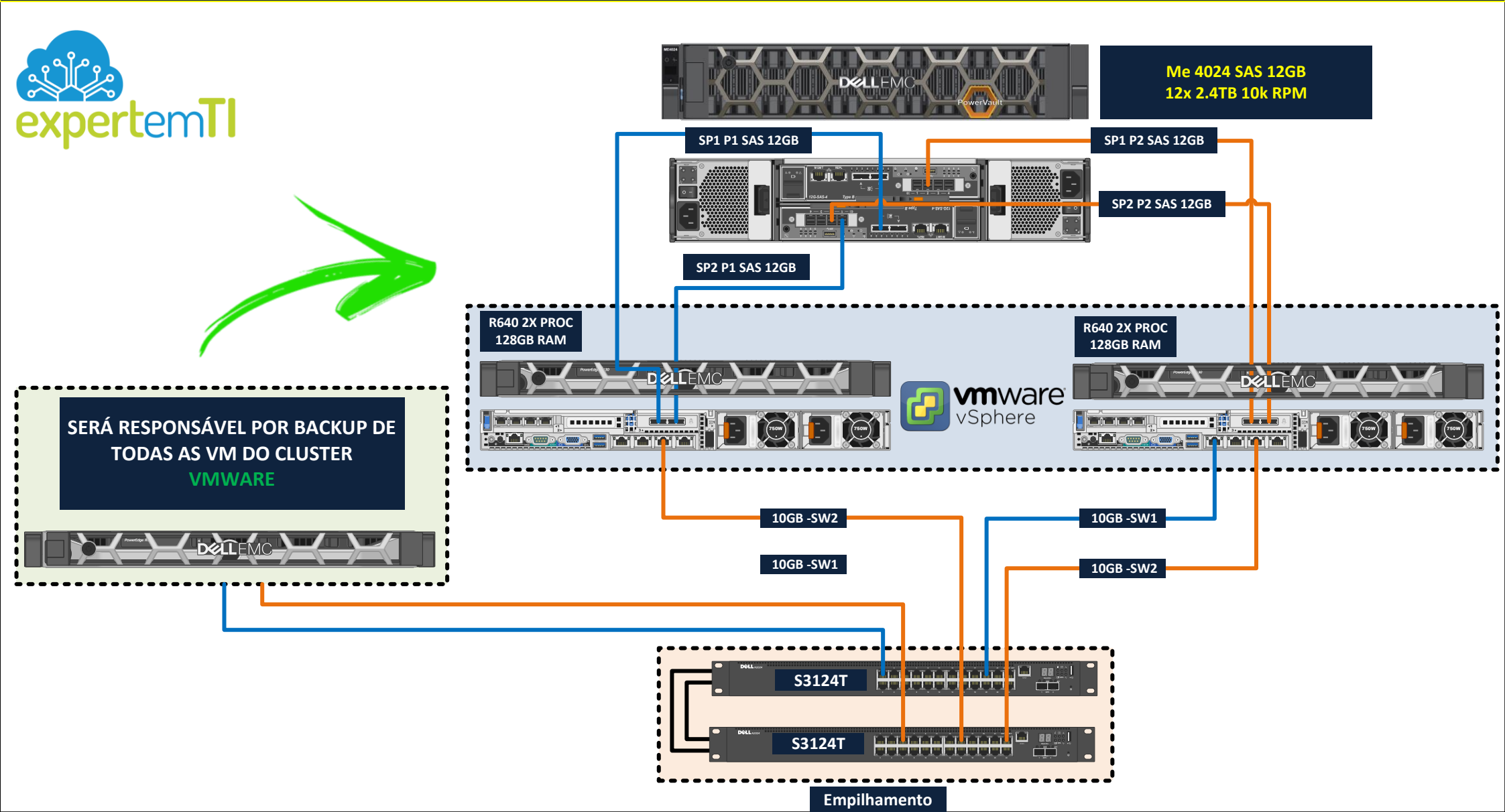
SWITCHES – PODE SER USADO SWITCHES DA LINHA S E DA LINHA N

STORAGE – ME4024 SAS 12GB

SISTEMA OPERACIONAL DE VIRTUALIZAÇÃO (HIPERVISOR) – PODE SER VMWARE VPSHERE

SOFTWARE DE BAKCUP – VEEAM BACKUP AND REPLICATION ESSENTIALS

SERVIÇOS DE MIGRAÇÃO E TREINAMENTO DE TODA INFRAESTRUTURA PARA O CLIENTE



PROJETO 3x2x1x0 (Composto por 3x servidores, 2x swtiches, 1x storage e um 1x backup) – CLUSTER TRADICIONAL DE ALTA DISPONIBILIDADE

SERVIDORES DE VIRTUALIZAÇÃO – R640

SWITCHES – PODE SER USADO SWITCHES DA LINHA S

STORAGE – ME4024 SAS 12GB (7,5 TB LÍQUIDO – 50K IOPS)

SISTEMA OPERACIONAL DE VIRTUALIZAÇÃO (HIPERVISOR) – VMWARE VPSHERE

SERVIDOR DE BKP – R540

SOFTWARE DE BAKCUP – VEEAM BACKUP AND REPLICATION ESSENTIALS

SERVIÇOS DE MIGRAÇÃO E TREINAMENTO DE TODA INFRAESTRUTURA PARA O CLIENTE

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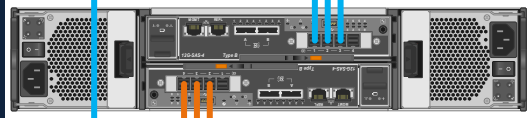
CONEXÃO SAS 12GB

STORAGE
Me 4024 SAS 12GB
10x 960GB SSD

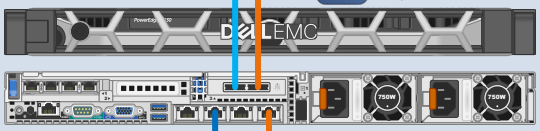


CONEXÃO SAS 12GB

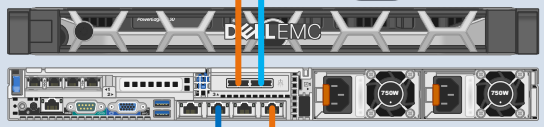
CONEXÃO SAS 12GB

CONEXÃO SAS 12GB

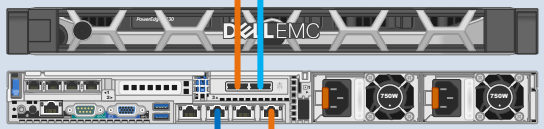
R640 1X GOLD 5218
128GB RAM



R640 1X GOLD 5218
128GB RAM



R640 1X GOLD 5218
128GB RAM



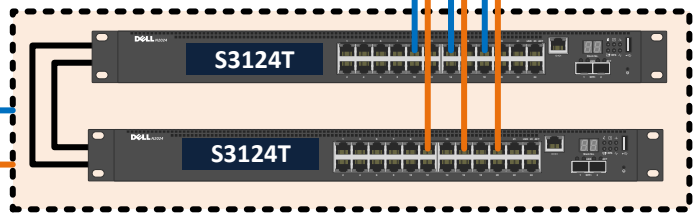
REDE 1GB/10GB

REDE 1GB/10GB

REDE 1GB/10GB

SERVIDOR DE BKP
R540 / 16TB volumetria

REDE 1GB/10GB



Empilhamento

PROJETO HCI (Composto por 3x servidores, 2x swtiches e 1x backup) – CLUSTER DE HIPERCONVERGÊNAI DE ALTA DISPONIBILIDADE

SERVIDORES – R740/R740XD

SWITCHES – SERÃO UTILIZADOS SWITCHES DA LINHA S (DEVE TRABALHAR COM PORTAS DE 10GB)

SISTEMA OPERACIONAL DE VIRTUALIZAÇÃO **(HIPERVISOR)** – **SOMENTE VMWARE VPSHERE** + **VSAN**

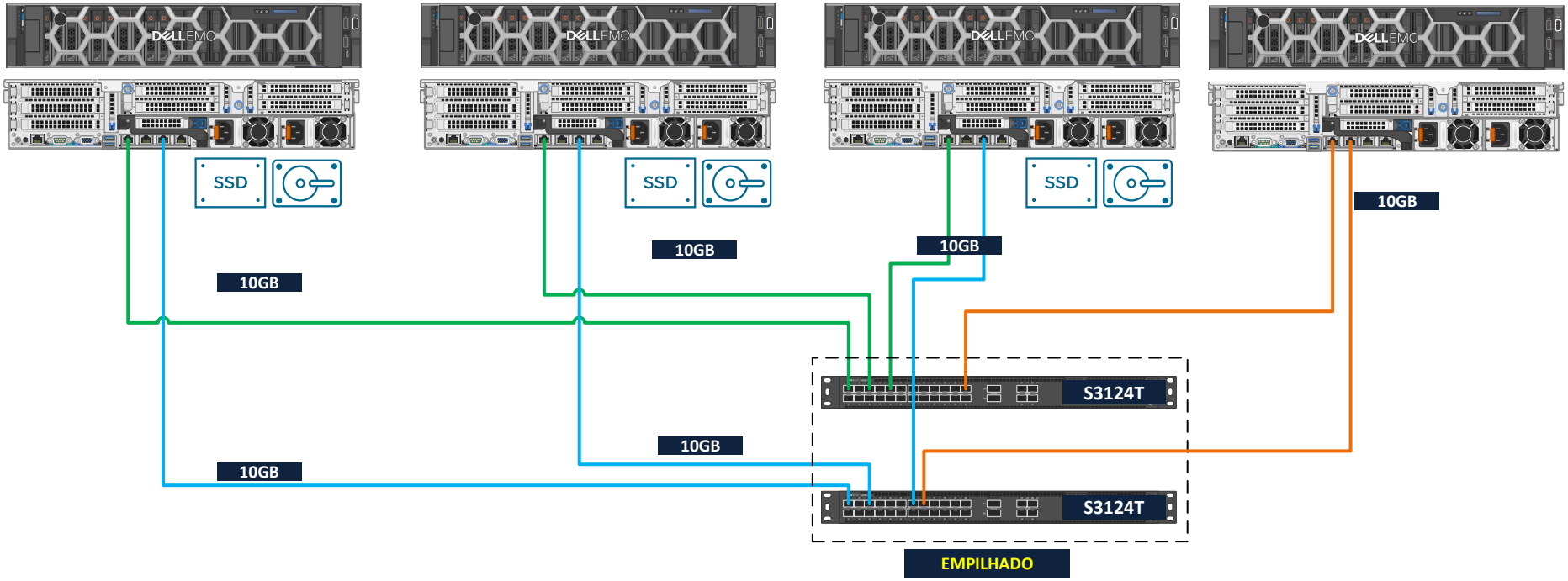
SOFTWARE DE BAKCUP – VEEAM BACKUP AND REPLICATION ESSENTIALS

SERVIÇOS DE MIGRAÇÃO E TREINAMENTO DE TODA INFRAESTRUTURA PARA O CLIENTE

VMware vSphere 6.7 + vSAN Standard

DELL EMC R740xd – 1X Gold 6254 18/36 3,1GHz – 384GB RAM - 2x 10GB SFP+ - 2x SSD 1.6TB WI - 12x SAS 2,4TB 10K

DELL R740XD – 32TB LÍQUIDO



CLUSTER VSAN ALL FLASH – AF-8 Series – 100k IOPS – 32TB LÍQUIDO RAID=5

Expansível até 84TB de armazenamento

RAM expande até 384GB por Host

COMUNICAÇÃO ENTRE SERVIDORES USANDO REDE DE 10GB

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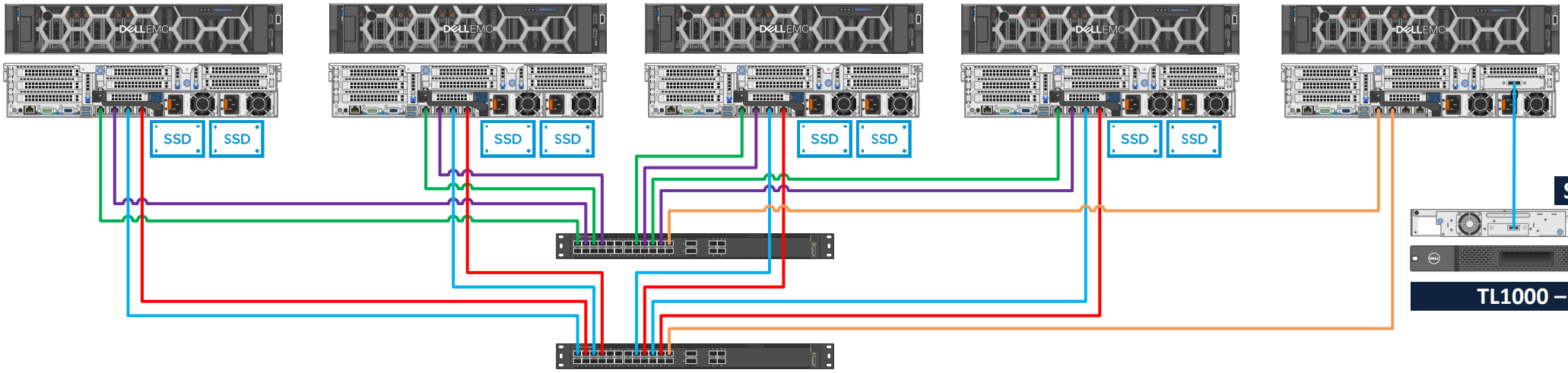
Powered By vmware vSAN™

SPBM – Storage Policy Based Management

DELL EMC R740xd - PROC 20/40 - 384GB RAM - 4x 10GB SFP+ - 2x SSD 800GB WI - 8x SSD 1,92TB (= 32TB RAID5)

DELL EMC R740 – 40TB



SAS – 12GB

TL1000 – LTO8

- Virtual Machine Network(s) (VLAN)
- Management Network (VLAN)
- Virtual SAN Network (VLAN)
- vMotion Network (VLAN)
- Backup Veeam (VLAN)