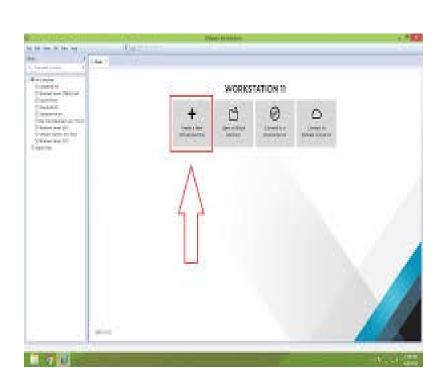
# 41891, 42891 – CLOUD COMPUTING LAB 7: ESXI INSTALL AND HOST PROFILES

**Tutor: Ngoc LE** 

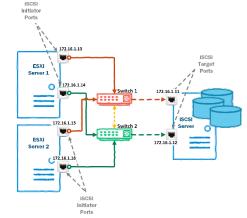
#### Outline:

**EXSi** installation **Host Profiles** Project guidance

## 1. ESXi installation [1,2]

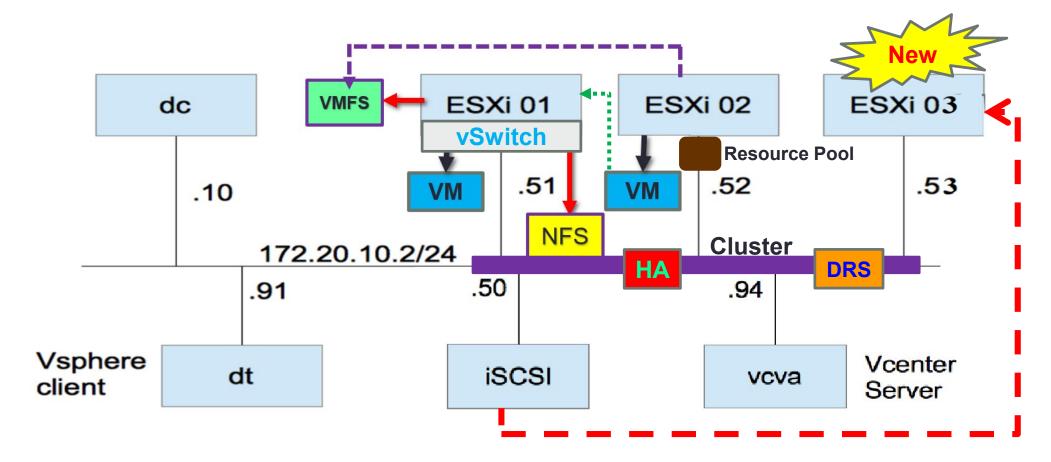






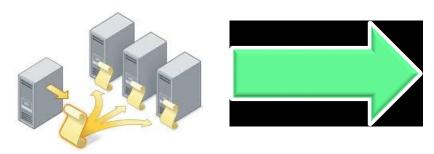
- [1] https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-67-installation-setup-guide.pdf
- [2] https://www.synology.com/en-global/knowledgebase/DSM/tutorial/Virtualization/How\_to\_set\_up\_Synology\_NAS\_as\_VMware\_server\_datastore

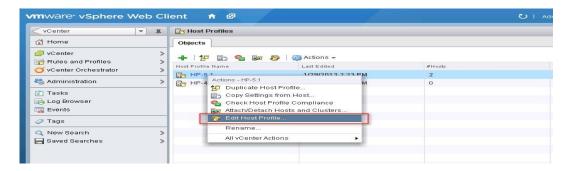
## 1. Network design for Lab 7 (Week 8)

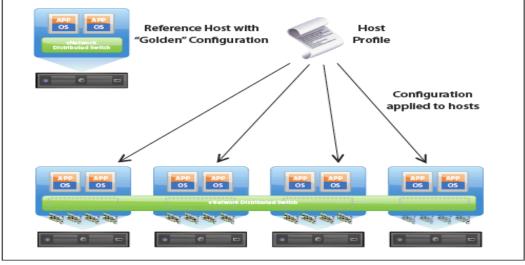


### 2. What is Host Profiles? [3]

VMware Host Profiles is a vCenter Server tool for designing and deploying ESX/ESXi hosts. Host Profiles works by encapsulating a reference host configuration and turning it into a profile, or template, upon which other hosts or clusters of hosts can be configured.







## 3. Project guidance

- Team and division
- Roles and division
- Business requirement analysis
  - ✓ Target clients
  - ✓ Infrastructure scale
  - ✓ Cost estimation and control
  - ✓ Possible risk analysis
  - ✓ Service workload goal

#### Cloud infrastructure design

Hardware cost and selection (e.g. Cisco)

Software cost and selection (e.g. Vmware or opensource toolkit openStack)

Time plan

Workload arrangement

Preparation

Scalable & HA design

Network (VPN,VLAN, VSwitch, DHCP)

Security (SSL, encryption)

Storage (SAN, NAS)

Infrastructure design

Storage & Computing node

Archive

Imaging (VM templates)

Identity (SSO,LDAP, or AD)

Billing

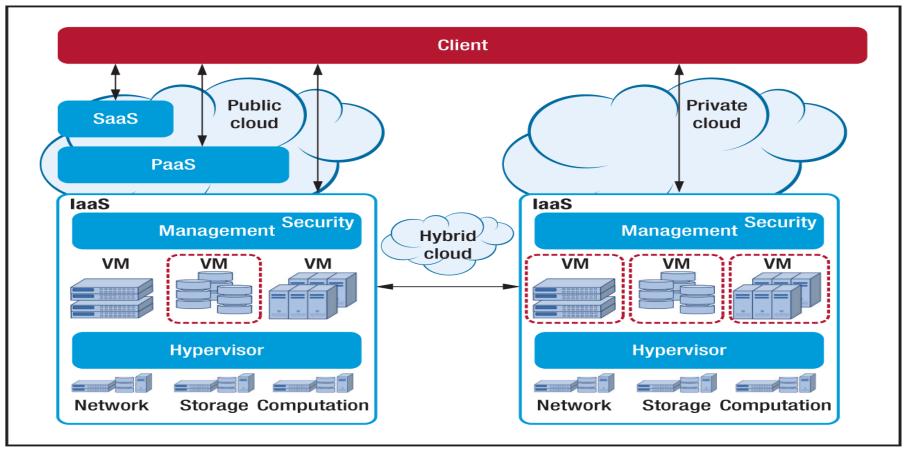
Cloud management

Survillence & monitoring

Possible nodes and services

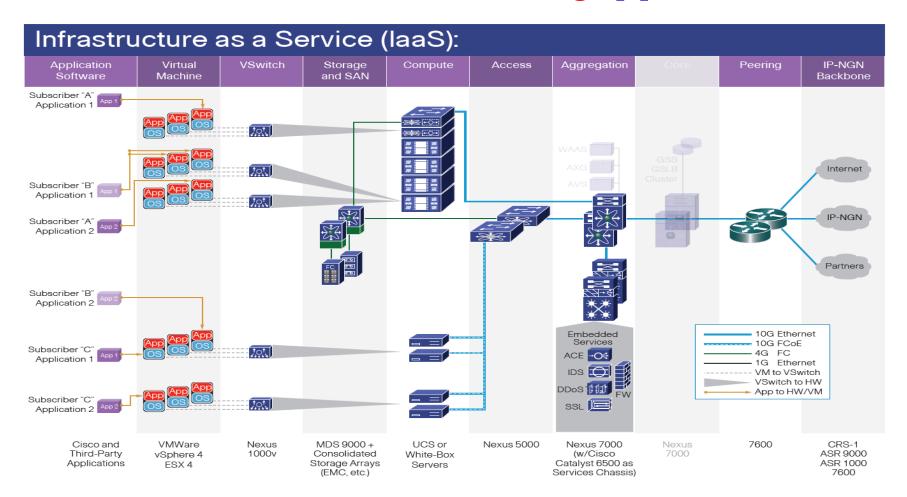
Cisco and VMware white paper and technical report

#### laaS and Cloud Tech [4]



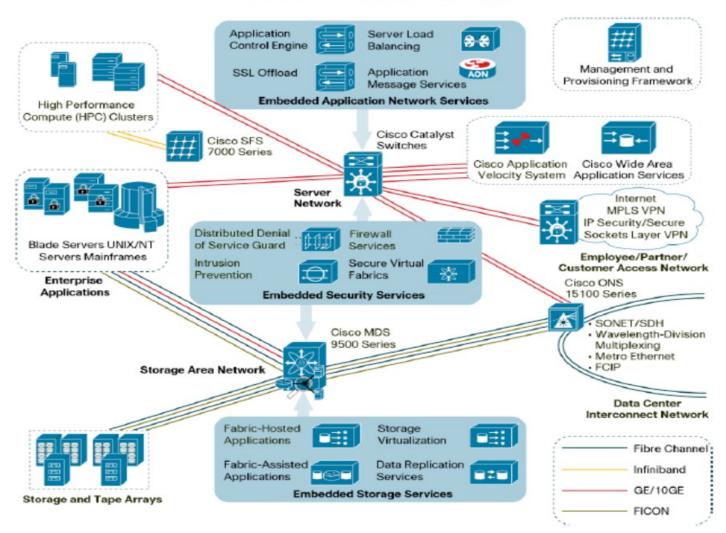
[4] https://www.computer.org/csdl/magazine/so/2015/02/mso2015020030/13rRUzpQPM6

#### Cloud Architecture and Design [5]



[5] http://virtualization.info/en/news/2010/01/cisco-announces-iaas-cloud-offering-for.html

#### Data Center Network Topology



# **THANK YOU!**

# Question & Answer