**Standard school password: console en secret**

**Switch**

Hostname: LAB-RA09-A02-SW01

Console password: cisco

Vty password: cisco

Enable secret: cisco

Banner:

Welcome to the PXL network!

Unauthorized access to this device is prohibited. All activities on this network are monitored and logged.

If you are not an authorized user, please disconnect immediately.

By accessing this network, you agree to comply with the company’s acceptable use policy.

**Router**

Hostname: LAB-RA09-C02-R01

Console password: cisco

Vty password: cisco

Enable secret: cisco

(Security passwords min-length 5)

Banner:

Welcome to the PXL network!

Unauthorized access to this device is prohibited. All activities on this network are monitored and logged.

If you are not an authorized user, please disconnect immediately.

By accessing this network, you agree to comply with the company’s acceptable use policy.

**Vlans maken**

Vlan 10 (native)  
name Management

Vlan 20  
name VM-Hosts

Vlan 30  
name Appliance-Servers

Vlan 40  
name Data-Users

Vlan 50  
name Voice-Users

Vlan 60  
name Wireless-Users

Vlan 70  
name OSPF-connect-1

Vlan 80  
name Access-Points

Alleen vlan 10 en 40 worden gebruikt de rest wordt dus niet geconfigureerd.

Poort g1/0/2 op de switch

Switchport mode access  
switchport access vlan 40

Poort g1/0/1 op de switch

Switchport mode trunk  
switchport trunk native vlan 10  
switchport trunk allowed vlan 10,40

SNMP username pass 2SNEA

Management subnet 172.16.9.128

Ip interface vlan 10: 172.16.9.132

Default gateway: 172.16.9.129

Data-users subnet 172.16.9.176

Router interface g0/0/1.10   
encapsulation dot1q 10 native  
ip address 172.16.9.130 255.255.255.240

Router(config)#interface g0/0/1.40

Router(config-subif)#description Default Gateway for VLAN 40

Router(config-subif)#encapsulation dot1Q 40

Router(config-subif)#ip address 172.16.9.178 255.255.255.240

PC(host) ip address 172.16.9.182 255.255.255.240 (ethernet 4)  
gateway 172.16.9.178

Server(host) ip address 172.16.9.183  
gateway 172.16.9.178

**OSPF**

router ospf 10

router-id 10.199.66.118

passive-interface default

no passive-interface GigabitEthernet0/0/0

network 172.16.9.128 0.0.0.15 area 0

network 172.16.9.176 0.0.0.15 area 0

network 10.199.66.96 0.0.0.31 area 0

interface GigabitEthernet0/0/0.70

encapsulation dot1Q 70

ip address 10.199.66.118 255.255.255.224

interface 0/0/0

no shutdown

**SSH router/switch**

Ip domain name data.labnet.local

Ip ssh version 2

Crypto key generate rsa general-keys modulus 1024

Username admin privilege 15 secret cisco

Line vty 0 4(router)  
line vty 0 15(switch)

Transport input ssh

Login local

Ongebrijkte poorten shutdownen

Switch g1/0/3-24 shutdown

**ACL**

LAB-RA09-C02-R01(config)#ip access-list extended MANAGEMENT\_ACCESS

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp host 10.199.66.100 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp 172.16.1.0 0.0.1.255 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp 172.16.3.0 0.0.3.255 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp 172.16.7.0 0.0.1.255 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp 172.16.9.0 0.0.1.255 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp 172.16.1.128 0.0.1.255 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp 172.16.3.128 0.0.3.255 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp 172.16.7.128 0.0.1.255 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#permit tcp 172.16.9.128 0.0.1.255 172.16.9.128 0.0.0.15 eq 22

LAB-RA09-C02-R01(config-ext-nacl)#deny ip any any

LAB-RA09-C02-R01(config)#line vty 0 4

LAB-RA09-C02-R01(config-line)#access-class MANAGEMENT\_ACCESS in

**NAT/PAT**

LAB-RA09-C02-R01(config)#ip access-list extended NAT\_ACCESS

LAB-RA09-C02-R01(config-ext-nacl)#permit ip 172.16.9.176 0.0.0.15 any

LAB-RA09-C02-R01(config)#ip nat inside source list NAT\_ACCESS interface GigabitEthernet0/0/1.70 overload

**DHCP**

Interface g0/0/1.40

Ip helper-address 10.199.64.66

**SNMP router**

conf t

snmp-server community SNMP-RO RO

snmp-server community SNMP-RW RW