



Title:

LAB 4

Drawn by:

Wim Leppens

Group(s):

3SNW

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Version:

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20-03-24

VLANs per Student Rack

RA0X-L

Vlan X1 – Management
Vlan X2 – Data_Users
Vlan X3 – Voice_Users
Vlan X4 – Reserved
Vlan 99 - Native

RA0X-R

Vlan X5 – Management
Vlan X6 – Data_Users
Vlan X7 – Voice_Users
Vlan X8 – Reserved
Vlan 99 - Native

IP addressing WAN connectivity

RA0X-L

LAB-RA01-C01-R01 – Gig 0/0/1 – 10.199.65.101/27
LAB-RA02-C01-R01 - Gig 0/0/1 – 10.199.65.103/27
LAB-RA03-C01-R01 – Gig 0/0/1 – 10.199.65.105/27
LAB-RA04-C01-R01 - Gig 0/0/1 - 10.199.65.107/27
LAB-RA05-C01-R01 – Gig 0/0/1 - 10.199.65.109/27
LAB-RA06-C01-R01 - Gig 0/0/1 - 10.199.65.111/27
LAB-RA07-C01-R01 – Gig 0/0/1 - 10.199.65.113/27
LAB-RA08-C01-R01 - Gig 0/0/1 - 10.199.65.115/27
LAB-RA09-C01-R01 – Gig 0/0/1 - 10.199.65.117/27
LAB-RA10-C01-R01 - Gig 0/0/1 - 10.199.65.119/27

LAB-RA01-C01-R02 – Gig 0/0/1 – 10.199.65.201/27
LAB-RA02-C01-R02 - Gig 0/0/1 - 10.199.65.203/27
LAB-RA03-C01-R02 – Gig 0/0/1 - 10.199.65.205/27
LAB-RA04-C01-R02 - Gig 0/0/1 - 10.199.65.207/27
LAB-RA05-C01-R02 – Gig 0/0/1 - 10.199.65.209/27
LAB-RA06-C01-R02 - Gig 0/0/1 - 10.199.65.211/27
LAB-RA07-C01-R02 – Gig 0/0/1 - 10.199.65.213/27
LAB-RA08-C01-R02 - Gig 0/0/1 - 10.199.65.215/27
LAB-RA09-C01-R02 – Gig 0/0/1 - 10.199.65.217/27
LAB-RA10-C01-R02 - Gig 0/0/1 - 10.199.65.219/27

RA0X-R

LAB-RA01-C02-R01 – Gig 0/0/1 – 10.199.65.102/27
LAB-RA02-C02-R01 - Gig 0/0/1 - 10.199.65.104/27
LAB-RA03-C02-R01 – Gig 0/0/1 - 10.199.65.106/27
LAB-RA04-C02-R01 - Gig 0/0/1 - 10.199.65.108/27
LAB-RA05-C02-R01 – Gig 0/0/1 - 10.199.65.110/27
LAB-RA06-C02-R01 - Gig 0/0/1 - 10.199.65.112/27
LAB-RA07-C02-R01 – Gig 0/0/1 - 10.199.65.114/27
LAB-RA08-C02-R01 - Gig 0/0/1 - 10.199.65.116/27
LAB-RA09-C02-R01 – Gig 0/0/1 - 10.199.65.118/27
LAB-RA10-C02-R01 - Gig 0/0/1 - 10.199.65.120/27

LAB-RA01-C02-R02 – Gig 0/0/1 – 10.199.65.202/27
LAB-RA02-C02-R02 - Gig 0/0/1 - 10.199.65.204/27
LAB-RA03-C02-R02 – Gig 0/0/1 - 10.199.65.206/27
LAB-RA04-C02-R02 - Gig 0/0/1 - 10.199.65.208/27
LAB-RA05-C02-R02 – Gig 0/0/1 - 10.199.65.210/27
LAB-RA06-C02-R02 - Gig 0/0/1 - 10.199.65.212/27
LAB-RA07-C02-R02 – Gig 0/0/1 - 10.199.65.214/27
LAB-RA08-C02-R02 - Gig 0/0/1 - 10.199.65.216/27
LAB-RA09-C02-R02 – Gig 0/0/1 - 10.199.65.218/27
LAB-RA10-C02-R02 - Gig 0/0/1 - 10.199.65.220/27

Subnets per Student Rack

RA0X-L

Vlan X1 – 172.17.x.0/28
Vlan X2 – 172.17.x.16/28
Vlan X3 – 172.17.x.32/28
Vlan X4 – 172.17.x.48/28

RA0X-R

Vlan X5 – 172.17.x.64/28
Vlan X6 – 172.17.x.80/28
Vlan X7 – 172.17.x.96/28
Vlan X8 – 172.17.x.112/28

IP addressing solid structure Subnets Student Rack

1ste client address - HRSP/VRRP default-gateway

2nd client address - LAB-BR-C01(02)-R01

3rd client address - LAB-BR-C01(02)-R02

4th client address - LAB-RA0X-A01(02)-SW01 (mgmt subnet only)

5th client address - LAB-RA0X-A01(02)-SW02 (mgmt subnet only)

6th client address - LAB-RA0X-A01(02)-SW03 (mgmt subnet only)

RA0X-L

172.17.X.21-30 client address – DHCP assigned (Data user subnet only)

RA0X-R

172.17.X.85-94 client address – DHCP assigned (Data user subnet only)



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Patching information Student Rack 1 -5

<u>RA0X-L</u>	<u>RA0X-R</u>
Port 2-3	Port 10-11

Patching information Central Rack

RA0X-L

LAB-RA01-C01-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/1
 LAB-RA02-C01-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/3
 LAB-RA03-C01-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/5
 LAB-RA04-C01-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/7
 LAB-RA05-C01-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/9
 LAB-RA06-C01-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/11
 LAB-RA07-C01-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/13
 LAB-RA08-C01-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/15
 LAB-RA09-C01-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/17
 LAB-RA10-C01-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/19

LAB-RA01-C01-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/1
 LAB-RA02-C01-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/3
 LAB-RA03-C01-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/5
 LAB-RA04-C01-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/7
 LAB-RA05-C01-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/9
 LAB-RA06-C01-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/11
 LAB-RA07-C01-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/13
 LAB-RA08-C01-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/15
 LAB-RA09-C01-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/17
 LAB-RA10-C01-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/19

RA0X-R

LAB-RA01-C02-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/2
 LAB-RA02-C02-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/4
 LAB-RA03-C02-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/6
 LAB-RA04-C02-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/8
 LAB-RA05-C02-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/10
 LAB-RA06-C02-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/12
 LAB-RA07-C02-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/14
 LAB-RA08-C02-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/16
 LAB-RA09-C02-R01 – Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/18
 LAB-RA10-C02-R01 - Gig 0/0/1 - LAB-BR-A-SW08 – Fa 0/20

LAB-RA01-C02-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/2
 LAB-RA02-C02-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/4
 LAB-RA03-C02-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/6
 LAB-RA04-C02-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/8
 LAB-RA05-C02-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/10
 LAB-RA06-C02-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/12
 LAB-RA07-C02-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/14
 LAB-RA08-C02-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/16
 LAB-RA09-C02-R02 – Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/18
 LAB-RA10-C02-R02 - Gig 0/0/1 - LAB-BR-A-SW13 – Fa 0/20



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