

# Finals Skills Exam

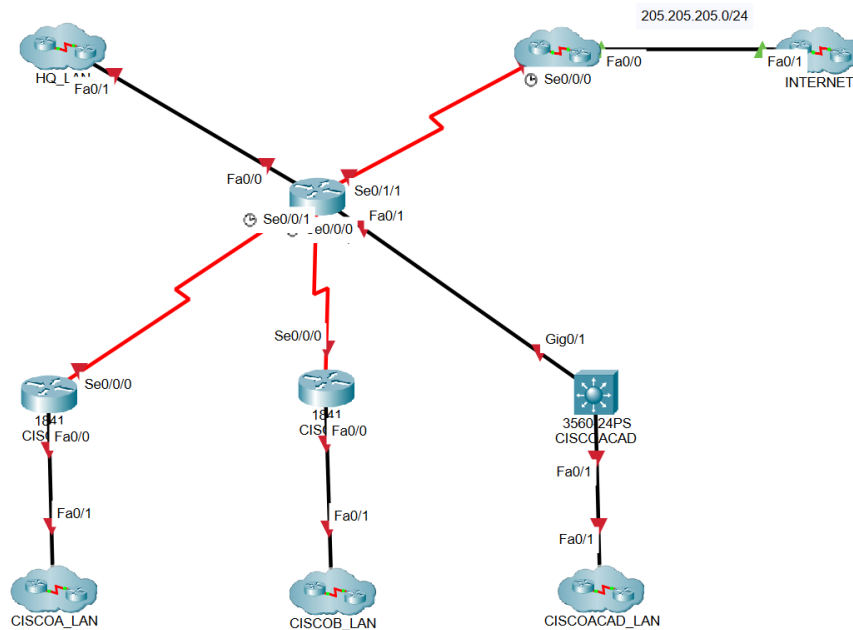
## VLSM TABLE

Subnet Name	Needed Host	Possible Host	Address	Mask	Sub Mask	Usable Host Add.	Broadcast
CISCO-ACAD	10000	16382	172.16.0.0	/18	255.255.192.0	172.16.0.1 - 172.16.63.254	172.16.63.255
CISCO A	4500	8190	172.16.64.0	/19	255.255.224.0	172.16.64.1 - 172.16.95.254	172.16.95.255
CISCO B	1020	1022	172.16.96.0	/22	255.255.252.0	172.16.96.1 - 172.16.99.254	172.16.99.255
CISCO MANIACS HQ_LAN	50	62	172.16.100.0	/26	255.255.255.192	172.16.100.1 - 172.16.100.62	172.16.100.63
HQ to A	2	2	172.16.100.64	/30	255.255.255.252	172.16.100.65 - 172.16.100.66	172.16.100.67
HQ to B	2	2	172.16.100.68	/30	255.255.255.252	172.16.100.69 - 172.16.100.70	172.16.100.71
HQ to ACAD	2	2	172.16.100.72	/30	255.255.255.252	172.16.100.73 - 172.16.100.74	172.16.100.75

Addressing Table

DEVICE	INTERFACE	IP ADDRESS	SUBNET MASK	DEFAULT GATEWAY
ISP	Se0/0/0	200.200.200.6	255.255.255.248	N/A
	Fa0/0	205.205.205.1	255.255.255.0	N/A
CISCOHQ	Se0/0/0	172.16.100.69	255.255.255.252	N/A
	Se0/0/1	172.16.100.65	255.255.255.252	N/A
	Se0/1/1	200.200.200.1	255.255.255.248	N/A
	Fa0/0	172.16.100.1	255.255.255.192	N/A
	Fa0/1	172.16.100.73	255.255.255.252	N/A
CISCOA	Se0/0/0	172.16.100.66	255.255.255.252	N/A
	Fa0/0	172.16.64.1	255.255.224.0	N/A
CISCOB	Se0/0/0	172.16.100.70	255.255.255.252	N/A

	Fa0/0	<b>172.16.96.1</b>	<b>255.255.252.0</b>	N/A
CISCOACAD	Gig0/1	<b>172.16.100.74</b>	<b>255.255.255.252</b>	N/A
	Fa0/1	<b>172.16.0.1</b>	<b>255.255.192.0</b>	N/A
DHCP	FastEthernet	<b>172.16.100.2</b>	<b>255.255.255.192</b>	<b>172.16.100.1</b>
DNS	FastEthernet	<b>172.16.100.3</b>	<b>255.255.255.192</b>	<b>172.16.100.1</b>
TFTP	FastEthernet	<b>172.16.100.4</b>	<b>255.255.255.192</b>	<b>172.16.100.1</b>
FTP	FastEthernet	<b>172.16.100.5</b>	<b>255.255.255.192</b>	<b>172.16.100.1</b>
ADMIN	FastEthernet	<b>172.16.100.62</b>	<b>255.255.255.192</b>	<b>172.16.100.1</b>
Email	FastEthernet	<b>172.16.100.6</b>	<b>255.255.255.192</b>	<b>172.16.100.1</b>
NTP/SYSLOG	FastEthernet	<b>172.16.100.10</b>	<b>255.255.255.192</b>	<b>172.16.100.1</b>
LAPTOPA	FastEthernet	<b>172.16.95.254</b>	<b>255.255.224.0</b>	<b>172.16.64.1</b>
LAPTOPB	FastEthernet	<b>172.16.99.254</b>	<b>255.255.252.0</b>	<b>172.16.96.1</b>
LaptopACAD	FastEthernet	<b>172.16.63.254</b>	<b>255.255.192.0</b>	<b>172.16.0.1</b>
PC1_HQ	FastEthernet	<b>DHCP</b>		
PC2_HQ	FastEthernet			
PC3_HQ	FastEthernet			
PC4_HQ	FastEthernet			
PC0-ISP	FastEthernet			
PC1-ACAD	FastEthernet			
PC2-ACAD	FastEthernet			
PC3-ACAD	FastEthernet			
PC4-ACAD	FastEthernet			
PC5-B	FastEthernet			
PC6-B	FastEthernet			
PC7-B	FastEthernet			
PC8-B	FastEthernet			
PC9-A	FastEthernet			
PC10-A	FastEthernet			
PC11-A	FastEthernet			
PC12-A	FastEthernet			



## Source Code

### ADMINHQ Command Prompt

```
ftp 172.16.100.5
cisco
cisco
dir
get EMAIL.txt
get USERNAMES.txt
```

### CISCOHQ Router

```
aniag
DTE
ena
RAM
conf t
host CISCOHQ
banner motd "LEARN AS MUCH AS YOU CAN CISCO1 STUDENTS!!!"
serv pass
ena sec vlsn
lin con 0
pass cisco1
login
logging synch
lin vty 0 4
```

```
pass cisco1
login
logging synch
exit
int s0/0/0
ip add 172.16.100.65 255.255.255.252
clock rate 64000
no shut
int s0/0/1
ip add 172.16.100.69 255.255.255.252
clock rate 64000
no shut
int s0/1/1
ip add 200.200.200.1 255.255.255.248
no shut
int fa0/0
ip add 172.16.100.1 255.255.255.192
no shut
int fa0/1
ip add 172.16.100.73 255.255.255.252
no shut
exit
router rip
version 2
network 172.16.100.0
network 172.16.100.64
network 172.16.100.68
network 172.16.100.72
no auto-summ
passive-int f0/0
default-info originate
exit
ntp server 172.16.100.10
ntp update-calendar
logging host 172.16.100.10
ip domain-lookup
ip domain-name CISCOHQ
ip name-server 172.16.100.3
ip route 0.0.0.0 0.0.0.0 200.200.200.6
crypto key generate rsa
1024
ip ssh ver 2
lin vty 0 4
transport input ssh
```

```
login local
login
exit
ip ssh authentication-retries 2
ip ssh time-out 20
do wr
do cop r tftp
172.16.100.4
CISCOHQ
```

### **CISCOA router**

```
alvin
FCS
ena
config t
hostname CISCOA
banner motd "LEARN AS MUCH AS YOU CAN CISCO1 STUDENTS!!!"
serv pass
enable secret vlsn
service password-encryption
line console 0
password cisco1
login
logging synchronous
line vty 0 4
password cisco1
login
logging synchronous
exit
int s0/0/0
ip address 172.16.100.66 255.255.255.252
no shut
int f0/0
ip add 172.16.64.1 255.255.224.0
no shut
exit
router rip
version 2
network 172.16.64.0
network 172.16.100.64
no auto-summ
passive-int f0/0
exit
int f0/0
```

```
ip helper-address 172.16.100.2
exit
ntp server 172.16.100.10
ntp update-calendar
logging host 172.16.100.10
ip domain-lookup
ip domain-name CISCOA
ip name-server 172.16.100.3
do wr
do cop r tftp
172.16.100.4
CISCOA
```

### **CISCOB router**

```
eric
bandwidth
ena
CSMA/CD
config t
hostname CISCOB
banner motd "LEARN AS MUCH AS YOU CAN CISCO1 STUDENTS!!!"
serv pass
ena sec vlsm
line console 0
password cisco1
login
logging synchronous
line vty 0 4
password cisco1
login
logging synchronous
exit
int s0/0/0
ip address 172.16.100.70 255.255.255.252
no shut
int f0/0
ip add 172.16.96.1 255.255.252.0
no shut
exit
router rip
version 2
network 172.16.96.0
network 172.16.100.68
no auto-summ
```

```
passive-int f0/0
exit
int f0/0
ip helper-address 172.16.100.2
exit
ntp server 172.16.100.10
ntp update-calendar
logging host 172.16.100.10
ip domain-lookup
ip domain-name CISCOB
ip name-server 172.16.100.3
do wr
do cop r tftp
172.16.100.4
CISCOB
```

#### **CISCOACAD router**

```
deleon
ARP
ena
switch
config t
hostname CISCOACAD
banner login "LEARN AS MUCH AS YOU CAN CISCO1 STUDENTS!!!"
serv pass
ena sec vlsm
line console 0
password cisco1
login
logging synchronous
line vty 0 15
password cisco1
login
logging synchronous
exit
ip routing
int g0/1
no switchport
ip address 172.16.100.74 255.255.255.252
no shut
int f0/1
no switchport
ip add 172.16.0.1 255.255.192.0
no shut
```

```
exit
router rip
version 2
network 172.16.0.0
network 172.16.100.72
no auto-summ
passive-int f0/1
exit
ip domain-lookup
ip domain-name CISCOACAD
ip name-server 172.16.100.3
do wr
```

### **ISP router**

```
ena
MAC
conf t
hostname ISP
banner motd "LEARN AS MUCH AS YOU CAN CISCO1 STUDENTS!!!"
serv pass
ena sec vlsm
line console 0
password cisco1
login
logging synchronous
line vty 0 4
password cisco1
login
logging synchronous
exit
int s0/0/0
clock rate 64000
no shut
exit
ip domain-lookup
ip domain-name ISP
ip name-server 172.16.100.3
ip route 200.200.200.0 255.255.255.248 se0/0/0
do wr
exit
```

### **SW1\_HQ Switch**

```
cisco1
ena
```



```
vlsn
conf t
hostname SW1_HQ
banner motd "LEARN AS MUCH AS YOU CAN CISCO1 STUDENTS!!!"
serv pass
line console 0
logging synchronous
line vty 15
password cisco1
login
logging synchronous
exit
int vlan 1
ip add 172.16.100.7 255.255.255.192
no shut
exit
no ip domain-lookup
ip domain-name SW1_HQ
ip name-server 172.16.100.3
ip default-gateway 172.16.100.1
do wr
exit
```

#### **SW2\_HQ Switch**

```
cisco1
ena
vlsn
conf t
hostname SW2_HQ
int vlan 1
ip add 172.16.100.8 255.255.255.192
no shut
exit
ip default-gateway 172.16.100.1
do wr
exit
```

#### **SW1\_A Switch**

```
cisco1
ena
vlsn
conf t
hostname SW1_A
int vlan 1
```

```
ip add 172.16.64.7 255.255.224.0
no shut
exit
ip default-gateway 172.16.64.1
do wr
exit
```

#### **SW2\_A Switch**

```
cisco1
ena
vlsn
conf t
hostname SW2_A
int vlan 1
ip add 172.16.64.8 255.255.224.0
no shut
exit
ip default-gateway 172.16.64.1
do wr
exit
```

#### **SW1\_B Switch**

```
cisco1
ena
vlsn
conf t
hostname SW1_B
int vlan 1
ip add 172.16.96.7 255.255.252.0
no shut
exit
ip default-gateway 172.16.96.1
do wr
exit
```

#### **SW2\_B Switch**

```
cisco1
ena
vlsn
conf t
hostname SW2_B
int vlan 1
ip add 172.16.96.8 255.255.252.0
no shut
```

```
exit
ip default-gateway 172.16.96.1
do wr
exit
```

#### **SW1\_ACAD Switch**

```
cisco1
ena
vlsn
conf t
hostname SW1_ACAD
int vlan 1
ip add 172.16.0.7 255.255.192.0
no shut
exit
ip default-gateway 172.16.0.1
do wr
exit
```

#### **SW2\_B Switch**

```
cisco1
ena
vlsn
conf t
hostname SW2_ACAD
int vlan 1
ip add 172.16.0.8 255.255.192.0
no shut
exit
ip default-gateway 172.16.0.1
do wr
exit
```

# Output Screenshot

Activity Results

Time Elapsed: 10:00:30

You did not complete the activity. Please close this window and try again.

Overall Feedback

Assessment Items

Connectivity Tests

Expand/Collapse All

Show All Item

Assessment Items	Status	Points	Component(s)	Feedback
Ports		0	Other	
PC3_HQ		0	Other	
Ports		0	Other	
PC4_HQ		0	Other	
Ports		0	Other	
SW1_A				
Ports				
SW1_ACAD				
Ports				
SW1_B				
Ports				
SW1_HQ				
Ports				
VTY Lines				
SW2_A				
Ports				
SW2_ACAD				
Ports				
SW2_B				
Ports				
SW2_HQ				
Ports				
TFTP				
Ports				
TFTP Server		0	Other	
WR_HQ				
DHCP Server				
Pools				
Pool linksysPool				
Start IP address	Incorrect	1	Ip	
Ports		0	Other	

Score : 285/286

Item Count : 285/286

Component	Items/Total	Score
Ip	148/149	148/149
Other	69/69	69/69
Physical	47/47	47/47
Routing	21/21	21/21