

Preparation Questionnaire for CCNA-RAC Interview – Version B

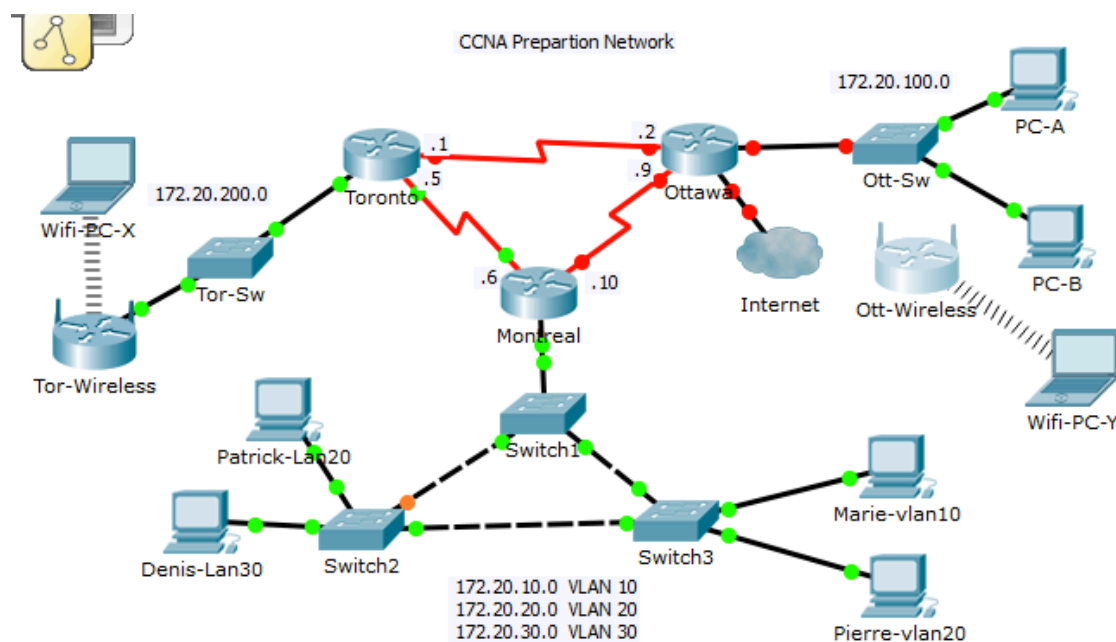
Download Cisco Packet Tracer from our web site and install on your computer. You must use Packet Tracer version 6.1.1 or higher.

Open the file: Champlain-CCNA-Prepare-B.pkt

In this Network both the Montreal and the Toronto sites have already been configured and it will be your job to configure the Ottawa site. Please note that any passwords already configured on the routers or switches are "cisco." Use the other routers and switches to compare configurations. Remember to use "?" to find commands or options to commands that you are not sure of.

Please refer to the Internet for help with configuring and troubleshooting the devices. The following information needs to be configured on the network.

Here is the Network Design for you to write and make notes on:



The following information needs to be configured on the network:

Ottawa Router:

Hostname	Ottawa
Password for privileged level that is encrypted	cisco
Password for console port	cisco
Telnet access to router with password	cisco

Configure ip addresses on the Ottawa Router for the following:

Interface	Ip address	masque
S0/0/0	172.20.1.2	255.255.255.252
S0/0/1	172.20.1.9	255.255.255.252
Gig0/0	172.20.200.1	255.255.255.0
Gig0/1	200.1.1.1	255.255.255.252

Configure ip addresses on the following PC's

PC-A	172.20.200.10	255.255.255.0
PC-B	172.20.200.20	255.255.255.0

What should the gateway address be for both these PC's?

Routing protocol EIGRP	AS 100
Add appropriate networks for EIGRP	Int s0/0/0, s0/0/1, gig0/0

Verify the following connections by using the ping command on the various devices

PC-A	Ottawa Router
Ottawa Router	PC-B
PC-A	PC-B
Ottawa Router	Montreal Router
Toronto Router	Ottawa Router

Configure a default route on the Ottawa router that points to the Internet Cloud (use the gigabit ethernet interface of the Ottawa router for your destination).

What are some other commands you can use to verify connectivity on the various network devices?

Switch3:

Hostname	Switch3
Password for privileged level that is encrypted	cisco
Password for console port	cisco
Telnet access to router with password	cisco

Add the following VLANS:

VLAN	NAME
10	Sales
20	Accounting

Put the following PC's in their appropriate VLAN:

Marie	VLAN 10
Pierre	VLAN 20

Note that Pierre and Marie's PC's have been configured with an ip address in their VLAN with an ip gateway address that points to the Montreal Router. Verify that these PC's can ping their gateway router and visa versa.

PC	Gateway address
Marie 172.20.10.100	Montreal gig0/0.10 172.20.10.1
Pierre 172.20.20.100	Montreal gig0/0.20 172.20.20.1

Put the following port security on Marie's PC

Port security	
Maximum number of mac addresses	3
Mac address	sticky

What command tells you which port security, if any, is on a given switch port?
 How can you tell what the violation mode is on a switch port?
 How many vlans are on Switch1? What is the command to look at the vlans?
 What protocol on the switches is used to prevent a loop between the 3 switches in Montreal?
 What command do you use to look at this protocol?
 Which switch in Montreal is the root switch, and which port is blocked to prevent a loop from happening?
 How does a PC on vlan 10 talk to a PC on vlan 30? (Hint: Look at Montreal Router configuration.)

WAN:

What is the default encapsulation on a cisco serial port?
 Configure the serial ports between Montreal and Ottawa with a serial port encapsulation of ppp.

Wireless:

Setup the wireless router in Ottawa, by attaching it to a fastethernet interface on Ott-Sw. Add the following information:

Interface	Ip address	masque
Ott-wireless "Internet"	Static ip 172.20.200.200	255.255.255.0
Ott-wireless "Network"	Enable DHCP with defaults	

Wireless Security: Basic Wireless Settings	
Network	Wireless N
SSID	Ott-Wireless
Radio Band	Standard – 20Mhz
Standard Channel	6-2.412 GHz
Wireless Security: Wireless Security	
Security Mode	WPA Personal
Encryption	AES
Passphrase	wirelesslan

Configure the Wireless PC to be able to connect with Ott-wireless.