



## **Router Configuration**

- Routers have three adapters:  
LAN connected to each office internal network.  
WAN and External are connected to the External Virtual Switch.
- Configure NAT and LAN Routing on the Routers.
- Configure static route on the Routers to forward traffic to the other branch offices.
- Configure your Routers as Caching-Only DNS Servers.

## **Active Directory Configuration**

- Your plan is to install two additional domain controllers in each office.
- First start with Vancouver office (VanDC1).

### ***Active Directory Site and Services***

- Rename the Default-First-Site-Name to Vancouver.
- Create a new Active Directory Site other offices (Calgary, Toronto and Montreal).
- Create Subnets for each site.
- Rename the DEFAULTIPSITELINK to Vancouver-Calgary.
- Create other Site Links between offices and add the corresponding sites to each site link.  
Vancouver-Toronto  
Vancouver-Montreal  
Calgary-Toronto  
Calgary-Montreal  
Toronto-Montreal
- Change the Replication Interval of all the site links to 15 minutes.
- Install other domain controllers

## **DNS**

- Create reverse lookup zone for each office.
- Check all the NS records on each of the DNS zones.
- Enable Aging/Scavenging for all DNS Zones with the default intervals.
- Enable automatic scavenging of stale records on all Domain Controllers with the default interval.
- Make sure there is no Forwarder added on all Domain Controllers.

## **DHCP**

- Create and configure a DHCP Scope for each office on DC1.

Scope Range: 192.168.x.1 to 192.168.x.254

Excluded Ranges: First 30 ip addresses and last 14 ip addresses

Scope Options: Domain Name, DNS Servers and Default Gateway based on the network diagram for each office.

Configure DC1 and DC2 in each of the offices as DHCP failover.

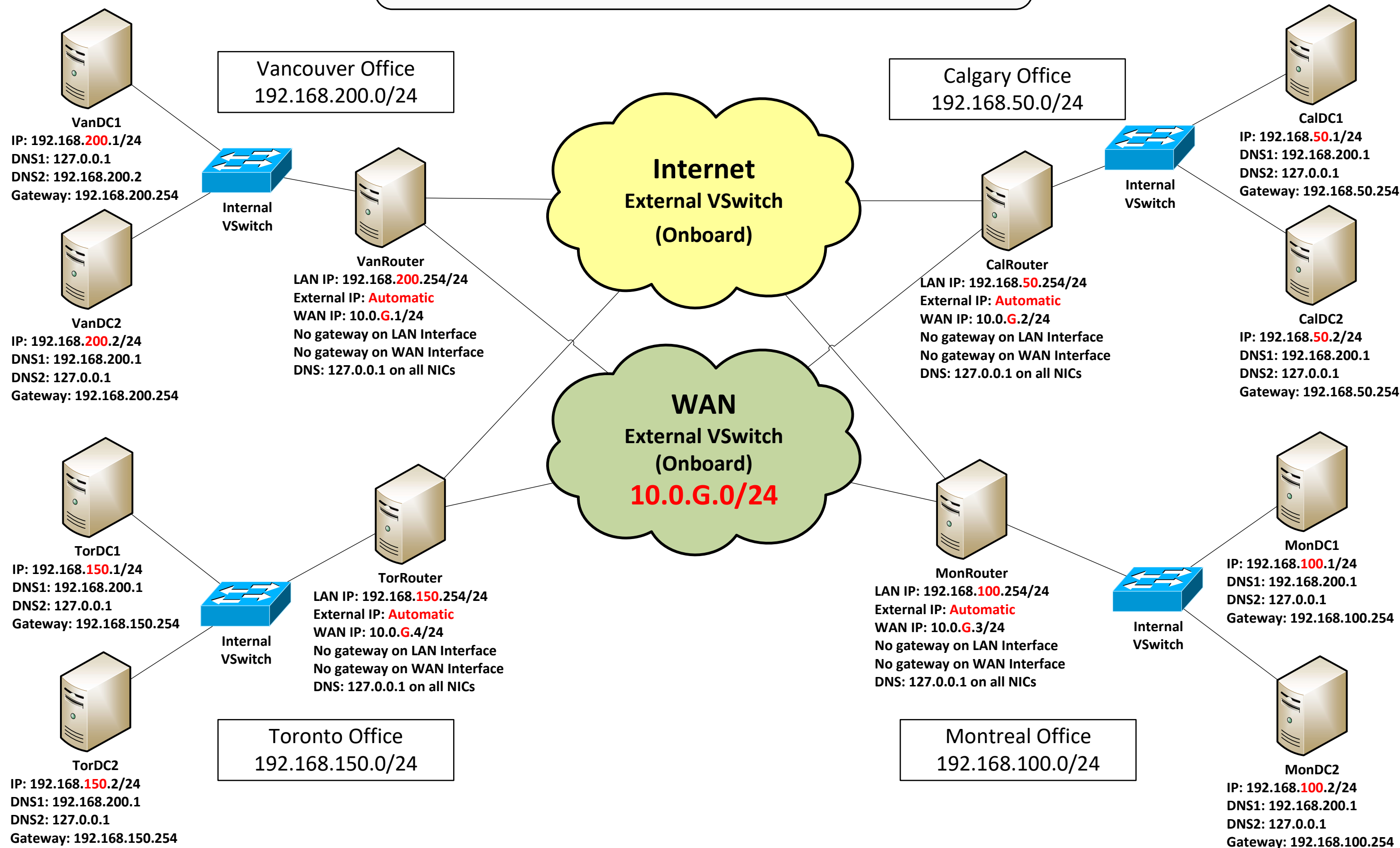
**Submit a professional project document. Explain the entire configuration in full details and take screenshot each step of the configuration.**

Configuration 80% (Will be presented by the group in the lab)

Professional Documentation 20%

Good luck,

# Microsoft Services – Final Project



**G** is your Group Number