**Break this into separate labs**

**Introduction**  
On a network with one Windows Server 2008 server and two Windows 7 clients, you will:  
Install Network Policy and Access Services Sever role on the Windows Server 2008 server virtual machine that has two network adapters  
Install and configure Routing and Remote Access Role Service  
Configure RIPv2  
Test your configuration  
  
Note:  
w 7a adapter is on the net17216150 network   
w7b adapter is on is the net1010150 network



w7b

r1

w7a

172.16.150.15/24

172.16.150.10/24

10.10.150.10/24

10.150.10.25/24

Figure 1: Network used to demonstrate dynamic routing

**IP Settings**  
On r1 network net17216150, configure the IP address and subnet mask  
172.16.150.10 255.255.255.0

On r1 network net1010150, configure the IP address and subnet mask  
10.10.150.10 255.255.255.0   
  
On w7a configure the IP address, subnet mask, and default router  
172.16.150.15 255.255.255.0 172.16.150.10  
  
 On w7b configure the IP address, subnet mask, and default router  
10.10.150.25 255.255.255.0 10.10.150.10

**Ping**  
Turn on File Sharing on all machines  
Verify that w7a can ping 172.16.150.10   
Verify that w7b can ping 10.10.150.10

**Install Network Policy and Access Services Sever Role**   
On r1, if Network Policy and Access Services Sever Role and Routing and Remote Access Service are installed, go to Enable Routing below.

On r1, from Server Manager,   
Install Network Policy and Access Services Sever Role, Next, Next  
On the Select Role Service, select Routing and Remote Access Service; doing so will select Remote Access Service, and Routing, Next, Install  
When the install completes, close Server Manager

**Enable Routing**  
On r1, go to Administrative Tools

Click Routing and Remote Access  
On the left you will see a red arrow pointing down if Routing and Remote Access is not enabled; otherwise, it will be green; if it is green disable it by  
Right click the router, MachineName(local)  
Click Disable Routing and Remote Access  
When prompted, click Yes  
The green arrow changes to red  
  
Now Enable Routing and Remote Access by  
Right click the router, MachineName(local)  
Click Configure and Enable Routing and Remote Access  
On the Routing and Remote Access Setup Wizard Welcome page, click Next   
On the Routing and On the Remote Access Setup Wizard Configure page, select Custom Configuration, Next On Custom Configuration page, Select LAN routing, Next, Finish  
When prompted, select Start Service  
After the service starts, the red arrow will change to a green up arrow

**Configure RIP Routing**On the Routing and Remote Access page, click the plus next to IPv4, you will see General and Static Routes  
Click General, you will notice there are a number of interfaces listed, including net17216150 and net1010150  
Right click General, click New Routing Protocol…  
Click RIP Version 2 for Internet Protocol, OK  
On left RIP is displayed under the IPv4 branch  
Click RIP and notice there are no routes configured  
Right click RIP, New Interface, select one of the NICs, OK, OK  
Right click RIP, New Interface, select the other NIC, OK, OK  
  
**Test your configuration**   
On w7a, ping w7b  
On w7b, ping w7b