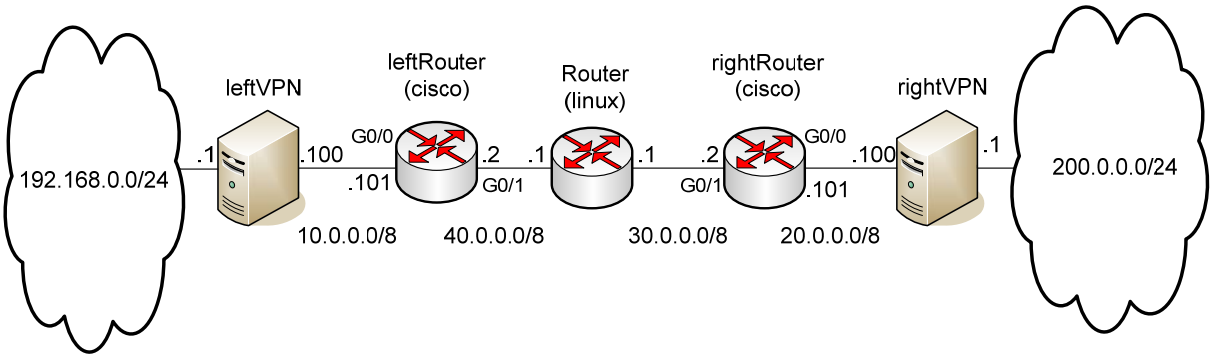
1. Network Topology



2. Test configuration & Results

❖ Router Configurations

leftRouter	rightRouter
conf t access-lists 1 permit any int gig0/0 ip nat inside int gig0/1 ip nat outside exit ip nat inside source list 1 int gig0/1 overload	conf t access-lists 1 permit any int gig0/0 ip nat inside int gig0/1 ip nat outside exit ip nat inside source list 1 int gig0/1 overload

❖ **Openswan-2.4.8-Kernel-2.6.18**

leftVPN	rightVPN
version 2.0 config setup interfaces=%defaultroute plutodebug=all nat_traversal=yes conn Left-Right leftid=@left rightid=@right auto=start type=tunnel left=%defaultroute leftnexthop= right=30.0.0.2 rightnexthop=30.0.0.1 leftsubnet=192.168.0.0/24 rightsubnet=200.0.0.0/24 auth=esp authby=rsasig leftrsasigkey=xxx rightrsasigkey=xxx	version 2.0 config setup interfaces=%defaultroute plutodebug=all nat_traversal=yes conn Left-Right leftid=@left rightid=@right auto=start type=tunnel left=40.0.0.2 leftnexthop=40.0.0.1 right==%defaultroute rightnexthop= leftsubnet=192.168.0.0/24 rightsubnet=200.0.0.0/24 auth=esp authby=rsasig leftrsasigkey=xxx rightrsasigkey=xxx
route add default gw 10.0.0.101	route add default gw 20.0.0.101

❖ **Test Result**

Test command
`leftPVN# ping 200.0.0.1 -I 192.168.0.1`
Test Result
The tunnel does NOT establish.

❖ **Openswan-2.6.21-Kernel-2.6.18**

leftVPN	rightVPN
version 2.0 config setup interfaces=%defaultroute plutodebug=all nat_traversal=yes conn Left-Right ikev2=yes leftid=@left rightid=@right auto=start type=tunnel left=%defaultroute leftnexthop= right=30.0.0.2 rightnexthop=30.0.0.1 leftsubnet=192.168.0.0/24 rightsubnet=200.0.0.0/24 auth=esp authby=rsasig leftrsasigkey=xxx rightrsasigkey=xxx	version 2.0 config setup interfaces=%defaultroute plutodebug=all nat_traversal=yes conn Left-Right ikev2=yes leftid=@left rightid=@right auto=start type=tunnel left=40.0.0.2 leftnexthop=40.0.0.1 right==%defaultroute rightnexthop= leftsubnet=192.168.0.0/24 rightsubnet=200.0.0.0/24 auth=esp authby=rsasig leftrsasigkey=xxx rightrsasigkey=xxx
route add default gw 10.0.0.101	route add default gw 20.0.0.101

❖ **Test Result**

Test command
`leftPVN# ping 200.0.0.1 -I 192.168.0.1`
Test Result
The tunnel does NOT establish.