command to view A) Il snow if ospt interface. enarging it -RI Ciofo7) # intrface serval 0/0/0 RI ( ) # ip ospf cost 1562

Lab-10 NAT configuration, In this lab static NAT dynamic NAT are configured. Since no routing protocol will be enabled a configure on the NAT forward any traffic to ISPI NAT (config) # ip route 0.0.0.0 0.00.0 200.200.100. configure a static vouls m 15P1 voulur for the translated public IP pool. 15P1 (config)# ip route 200.200.106.128 255.255.255.128 MAT SOIO 208.200.100.1 Create an age. ACL to define intural NATICONFIJ) H ip access - list 1 primit 12.168.1.0 0.0.0.255 Static NAT Configuration: MAP a private IP to a fixed public IP NAT (config)# ip nal inside source static (200.200.100.252 192.168.1.2 200.200.100.252

- Reload the router to force new 10s to be used. Command to view ospf neighbors souter RI # show ip orpy nighbor - Router-id command to change the ID. RI (config) # router ospf 2

RI () # router-id 10.4.4.4 RIC ) # end RI# clear ip ospf process. - removing ID with no command. AI (config) & router ospf 1 RI ( ) # no routw-id 10-4.4.4 RIC ) # end RI # Crean ip ospf moren. - vinty of Properation RI# show ip ospf neighbor

RI# show ip protocols

RI# show ip route (cost can be fond). & Neiwing bandwith on sololo. (any interface). RI # Show intuface 50/010. command to change sandwith. RI \* config) & inface solo 10. RI ( config-it)# Landweith 64 50/0/1 V

Dynamic NAT configuration, create a pool of public iPs for other private NAT (config)# ip not pool 200.200.100.129 200.200.100.260 netmask 255.255.255.128 map private 1Ps in the internal network To public pool, NAT (config) # if not inside source 113+01 pool public Designate NAT interfaces:

cpccify which not interfaces are inside (private)

and outside (public). NAT (config if) # interface facto

NAT (config if) # ip not inside

NAT (config - if) # interface 90/0

NAT () # ip not outside. Merification: show NAT Translations: NAT # show ip not translations
show NAT statistics:

NAT # show ip not steetistics
elear p NAT translations NAT # clear ip sal translation +

Lab 11: Configuring IPU6 Addressing configue IPV 6 Addressing on Router. Enable roule to forward IPV6 packets.

RI (config) # ipv6 unicast-routing -> configure Golo. RI (config) # interface 90010 RI (cofig-if) # ipv6 madress 2001: D88:111:11/64 9999999999999999 RI (config-if) # ipv6 address FE80::1 link-local RIC 7# no shutdown -> Configue G0/1 -> Configure 50/0/0 Config 1PV6 Addressing on Servers clients

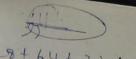
Lab-09 ACL All configuration done ( out to ping in different). - Enable OSPF in all interfaces RI & RZ (onco o) RILCONFIG) # south ospf 1 RI (config - route) # network 10.0.0.0 0.255.255.255 area o AI ( ) H end AZ (config) # router osp7 1 R2 (enfig-route) # octivar 10.0.0.0 0.255.255-255 avea 0 R2 ( )# end RI (configuration) # network 10.4.4.0 0.0.0.3 area 6 for R! also. Act configurations: - permit packets from 11 to submet of nosts A & B. Bling as outbound ACL or RI's GOLD, primit packets from SI & deny au other packets 11 of Goll, perist 52 & deny all other. RI config) # access-list 1 permit 10.2.2.1 RI (cofig)H aller-list 2 permit 16.2:2.2 RI (config) # interface 610/0 Re(corfig-it)# ip a coess-group 1 out RI (corfg-if)# intuface Goll RI (cotiq-it) # ip access-group 2 out MC ? # end

- Remove RIP config from each nouter. RI (config) # no router rip 11 similar For RL & R3. - Config RIP RICconfig) & router rip RI (config-router) # network 172.30.0.0 - Config at to stop surding epolates out to folo. RI (config-router) # parrive-interface fa 010. Re (config-route) # end RI # copy own start. similar for RIER3. - verify RIP routing
RI# Show iP route RI # show ip protocols.

RI # debug ip nip

RI # vndebug all.

when your finished with ospf RI (config-router) # end R1 # Similarly configur ospf on RL & R3. - config OSPF router IDS. ospf souter ID oniavely identify the routers in the ospf routing domain. (it is an IP address). 1- 1P address
2- Highest a
interfaces. 1- IP address configured with ospf router-id command. 2- Highert IP. address of any router's loopback addresses 3- Highest active IP address on any of the router's physica Examining the correct 10. RI # Show iP Protocols (it will show you the D) RI# Show ip OSPF (1) At # show ip ospf interface (u). Using loopback addresses to change the ID. RI (confrg) # interface loopback 0. RI (config-if) # ip address 10.1.1.1 265.255.255.255. Similar for R24 R3.



## Lab-08 OSPF Configuration.

128+64+32416.

- Basic Router configuration. RI (config) # hostname MyRouter my Rovier (config) # no ip domain-lookup. EXEC mode password. my Router (config) # enable secret password. MOTO Banner. MyRouter (carfig) # banner moted # Hello world # passward for console connections. My Router (config) # line console 0 11 11 # password consolePassword

11 11 # login

11 11 # exit Passward for NTY comections myRouter (config) # line vty 04 ( (config-line) # password VTYPansword 11 11 # 10gin 11 & exit - Config OSPF on RI

RI (config) # wouter OSPF 1

RI (config-vouter) # network 172.16.1.16 0.00.15 area 0 config une router to advertise 30/0/0 interface el (config-route) # network 192.168.10.000.0.3 area 0 Smilar for 50/0/1