

LAB1 ----- reinstall router: Router#erase startup-config Router#reload ----- Disable lookup: R1(config)#no ip domain-lookup ----- execution mode password: R1(config)#enable secret cisco ----- Banner of the day: banner motd &----& -----	router console password: R1(config)#line console 0 R1(config-line)#password cisco R1(config-line)#login virtual lines password: R1(config)#line vty 0 4 R1(config-line)#password cisco R1(config-line)#login Configure ip address of R1: R1(config)#interface serial 0/0/0 R1(config-if)#ip address 192.168.2.1 255.255.255.0 no shut clock rate: R1(config-if)#clock rate 64000 SAVE: R1#copy run start
---	--

shihab.muhtasim@g.bracu.ac.bd

llovemartingarrix@@11

LAB 4: TASK 1: Ping tracert 1. pc information: 4: C:\>ipconfig /all 6: C:\>ipv6config /all 2. see router status: ip addresses of ports: R1#show ip interface brief R3#show ipv6 interface brief Router table: show ip route show ipv6 route TASK2: troubleshoot ssh mode- PC cli to router: ssh -l Admin01 172.16.1.1 shh -l username <default-gateway-port-of-router>	TASK3: Using NAT dynamic- 1. ACL- list: ip access-list standard R2NAT 2. Permit: need wildcard mask command: permit <192.168.10.0> <0.0.0.255> 3. public address pool: -ip nat pool R2POOL <209.165.202.129> <209.165.202.129> netmask 255.255.255.252 (range) 4. Mapping : ip nat inside source list R2NAT pool R2POOL overload 5. inside and outside ports: int s0/1/0 , ip nat outside ----- Directly static NAT: ip nat inside source static inside-add outside-add R2# show ip nat translations
---	---

LAB 5:

DHCP:

1. **Excluded address:** ip dhcp excluded-address <start address> <end add>
2. **Create dhcp pool:** ip dhcp pool POOLNAME
3. **Fill up pool:** network <network address> <submet musk>
4. **default gateway:** default-router 192.168.10.1
5. **DNS server:** dns-server <address>

DHCP RELAY:

1. Enter relay interface: int g0/0
2. ip helper-address <ip address of dhcp server entrance port>

DHCP server as DHCP client:

1. enter unassigned port: int g0/1
2. **set ip by dhcp:** ip address dhcp, no shut

IP-

recursive lookup:

ip route <address of remote network> <subnet> <next hop- hop>

Directly attached:

ip route <address of remote network> <subnet> <exit interface>

Default static route:

ip route 0.0.0.0 0.0.0.0 <exit interface>

Floating static route: show run

Turn off a route: int s0/0/0, shutdown

turn on: no shutdown

IPv6 default: ipv6 route ::/0 <add next hop> 5

dynamic:

router rip

version 2

no auto-summary

broadcast : nertwork <direct add>

passive port: passive-interface g0/0

advertise internet connection:

default-information originate

copy run start