**Welcome to your exam.**

**There are 6 Tasks in your exam and do them accordingly**

**Task 1: Failing to do this task properly will generate 0 in your exam**

Setting up the Account Server

1. Set the DHCP service on
2. Create a DHCP pool where:
   * Pool Name: Your Name (Ex: Lionel Messi)
   * Start IP address: Your ID (Ex: 20.22.12.18)
3. You are done with Task 1

**Task 2: Subnetting**

You are given this network address 192.168.21.0/24. Subnet this based on the host requirements. Since all the serial connections require same number of hosts, give the first network address to serial 1, the second network address to serial 2 and so on. When you are done with subnetting, the second usable address of all the LAN's should match with the server addresses.

**Task 3: Configuring IP addresses and passwords of the devices**

* R1 Router:
  + Set the first usable IP address of the network to R1's fa0/0 interface.
  + Set the first usable IP address of the network to R1's Se0/0/0 interface.
* R2 Router:
  + Configure the EXEC mode password as class
  + Set the first usable IP address of the network to R2's fa0/0 interface.
  + Set the second usable IP address of the network to R2's Se0/0/0 interface.
* DNS Server:
  + Set the second usable IP address of the network to this
  + Set the subnet mask, default gateway
* Web Server:
  + Set the second usable IP address of the network to this
  + Set the subnet mask, default gateway, DNS Server
* PC0
  + Set the third usable IP address of the network to this
  + Set the subnet mask, default gateway, DNS Server

**Task 4: Routing**

* R1 Router:
  + Create a default static route via next hop IP. The route should be through Se0/0/0
  + Create a floating default static route having AD = 5 through exit interface Se0/0/1
* R2 Router:
  + Create a static route using exit interface for R1's LAN
  + Create a static route using exit interface for R3's LAN

**Task 5: Configuring NAT and ACL**

* Create an access list named R2NAT
* Permit the address space of R2 LAN
* Configure a NAT pool named R2POOL. All the usable IP addresses of 209.165.202.0/30 should be used to create the pool
* Associate the access list with the NAT pool
* Configure R2 interfaces with the appropriate inside and outside NAT commands.

**Task 6: Server Setup & Troubleshooting**

* DHCP Server:
  1. Set the DHCP Service On
  2. Create a DHCP pool where:
     + Pool Name: R2\_LAN
     + Default gateway: Default gateway of R2 LAN
     + Subnet Mask: Subnet mask of R2 LAN network
     + DNS Server's IP: IP address of the DNS Server
     + Start IP address: exclude the first two addresses of the network
* Set the IP address of PC1 using DHCP and try to visit www.global.com
* If you fail to do that, start troubleshooting