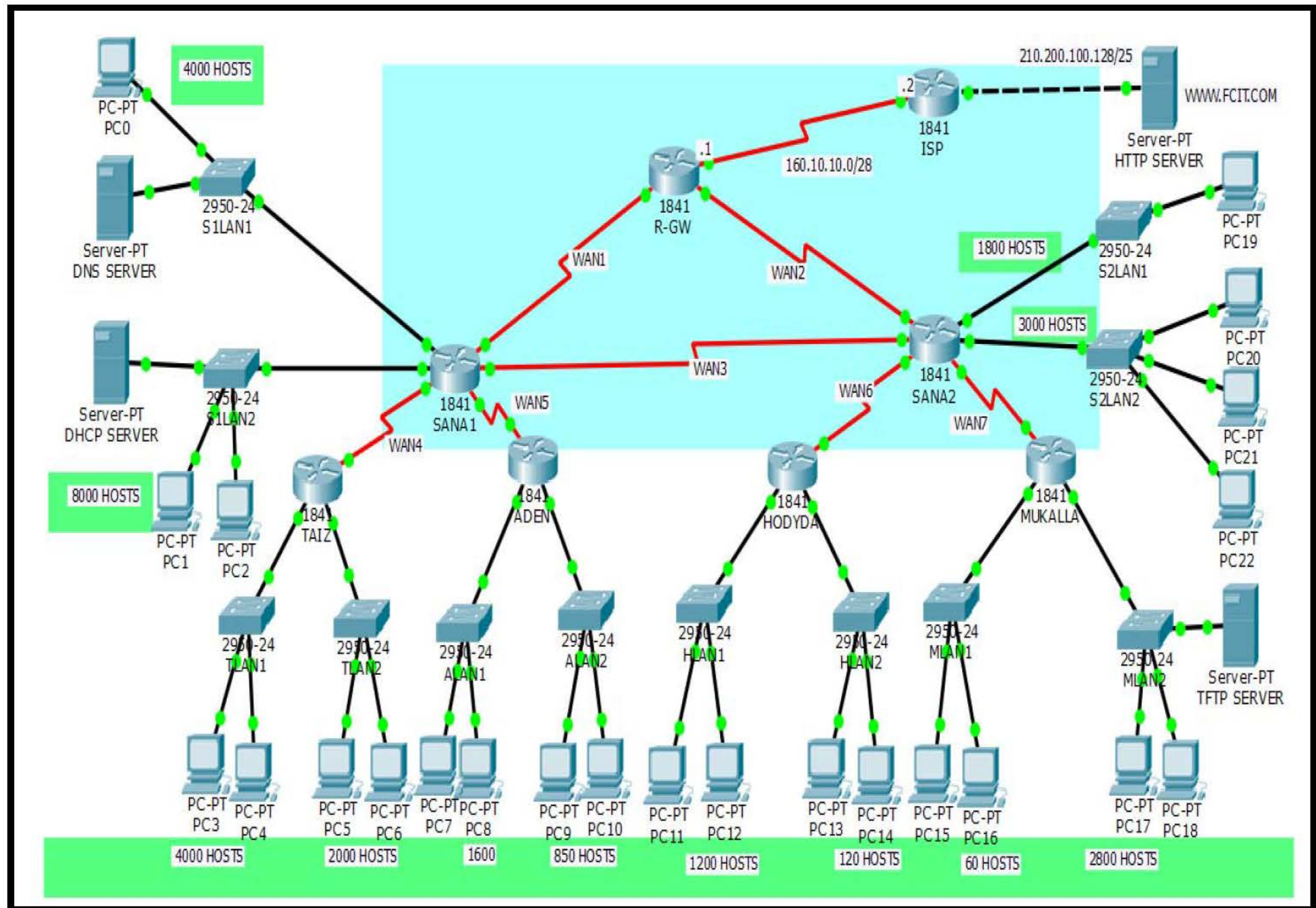


TOPOLOGY



Project Requirements

PATR 1(PACKET TRACER):

****PLEASE, READ ALL OF THESE INSTRUCTIONS CAREFULLY AND ANSWER YOUR ACTIVITY.**

TASK1

Step 1:

- Name all devices(Routers, Switches and servers....)as shown in the topology .
- You can choose any numbers for all interfaces on devices as you want.
- Cable all devices in topology with the proper type as shown.

Step 2:

- Configure the console, vty and enable secret passwords. Use **FCIT** for the console and vty passwords and **lab** as the enable secret in all routers.

TASK2

Step 1:

- **USE VLSM** to subnet **X.X.X.X/16** to meet the requirements on each LAN and WAN as follow:

	LAN 1(NO.Of Hosts)	LAN 2(NO.Of Hosts)
SANA1	4000	8000
SANA2	1800	3000
TAIZ	4000	2000
ADEN	1600	850
HODYDA	1200	120
MUKALLA	60	2800
Each WAN SHOULD have 2 Hosts		

Step2:

- According your subnetting, start to configure all devices interfaces(**Routers ,servers and PCs**)with ip address , subnet mask ,DNS and Gateway **statically**(except PCs in LAN2 on SANA1 router where you must configure DHCP server to provide these PCs with IP address. Subnet mask, Gateway and DNS server address **dynamically**).
- Configure the router interface with **first IP** address in each sub network.
- Configure the server interface with **last IP** address in each sub network.

TASK 3

Step 1:

- Configure each router in topology by **static method** with all other networks.

Step 2:

- ON **DNS server** Configure the domain name **WWW.FCIT.COM** with IP address **210.200.100.130**.

Step 3:

- ON **HTTP server** make your web page and write these statements:

Line 1 :(Congratulation...you complete PROJECT Successfully).

Line 2(YOUR NAME AND ID).

In the following style:

- ✓ **Heading is Header 1.**
- ✓ **background-color is powderblue.**
- ✓ **font color is red, *italic* .**

TASK 4

- Verify your connectivity so you can ping all devices one from another .
All PCs can reach HTTP server and browser WWW.FCIT.COM and the statements **(Congratulation...you complete PROJECT Successfully)** and **(YOUR NAME AND ID)** should be displayed.

TASK 5

- Save all configuration on the **TFTP server**.

TASK 6

- Fill in this table as your subnetting:

		LAN1	LAN2
SANA1	Subnet address		
	Subnet mask		
	First IP Valid host		
	Last IP Valid host		
	Broadcast address		
	Hosts Required		
	Host wasted		
		LAN1	LAN2
SANA2	Subnet address		
	Subnet mask		
	First IP Valid host		
	Last IP Valid host		
	Broadcast address		
	Hosts Required		
	Host wasted		
		LAN1	LAN2
TAIZ	Subnet address		
	Subnet mask		
	First IP Valid host		
	Last IP Valid host		
	Broadcast address		
	Hosts Required		
	Host wasted		

		LAN1	LAN2
ADEN	Subnet address		
	Subnet mask		
	First IP Valid host		
	Last IP Valid host		
	Broadcast address		
	Hosts Required		
	Host wasted		
		LAN1	LAN2
HODYDA	Subnet address		
	Subnet mask		
	First IP Valid host		
	Last IP Valid host		
	Broadcast address		
	Hosts Required		
	Host wasted		
		LAN1	LAN2
MUKALLA	Subnet address		
	Subnet mask		
	First IP Valid host		
	Last IP Valid host		
	Broadcast address		
	Hosts Required		
	Host wasted		
		WAN address	WAN subnet mask
WAN	WAN1		
	WAN2		
	WAN3		
	WAN4		
	WAN5		
	WAN6		
	WAN7		

