Module -01 Final Activity-2025-B1 – Basic Security, Static Routing, IP Addressing (06 Hours)

Devices Name	Interface	Connect with	Interface	User Count	Remark
R-01	Gig 0/0/0	SW-01	Gig 0/1	User 200	
	Gig 0/0/1	SW-02	Gig 0/1	User 150	
	Serial 0/1/0	R-02	Serial 0/1/0		DTE
	Serial 0/1/1	R-08	Serial 0/1/1		DTE
R-02	Serial 0/1/0	R-01	Serial 0/1/0	User 02	DCE
	Serial 0/1/1	R-03	Serial 0/1/1	User 02	DCE
	Serial 0/2/0	R-04	Serial 0/2/0	User 02	DCE
	Serial 0/2/1	R-05	Serial 0/2/1	User 02	DCE
R-03	Gig 0/0/0	SW-03	Gig 0/1	User 63	
	Gig 0/0/1	SW-04	Gig 0/1	User 50	
	Serial 0/1/0	R-07	Serial 0/1/0		DTE
	Serial 0/1/1	R-02	Serial 0/1/1		DTE
R-04	Gig 0/0/0	SW-05	Gig 0/1	User 61	
	Gig 0/0/1	SW-06	Gig 0/1	User 40	
	Serial 0/2/0	R-02	Serial 0/2/0		DTE
R-05	Gig 0/0/0	SW-07	Gig 0/1	User 120	
	Gig 0/0/1	SW-08	Gig 0/1	User 25	
	Serial 0/2/0	R-06	Serial 0/2/0	User 02	DCE
	Serial 0/2/1	R-02	Serial 0/2/1		DTE
R-06	Gig 0/0/0	SW-09	Gig 0/1	User 20	
	Gig 0/0/1	SW-10	Gig 0/1	User 210	
	Serial 0/2/0	R-05	Serial 0/2/0		DTE
R-07	Gig 0/0/0	SW-11	Gig 0/1	User 32	
	Gig 0/0/1	SW-12	Gig 0/1	User 25	
	Serial 0/1/0	R-03	Serial 0/1/0	User 02	DCE
R-08	Gig 0/0/0	SW-13	Gig 0/1	User 10	
	Gig 0/0/1	SW-14	Gig 0/1	User 40	
	Serial 0/1/1	R-01	Serial 0/1/1	User 02	DCE
Amanda-PC	Fa 0	SW-01	Fa 0/1		Amanda Perera
Kasun-PC	Fa 0	SW-01	Fa 0/2		Kasun Jayakody
Dilshan-PC	Fa 0	SW-02	Fa 0/1		Dilshan Herath
Pradeep-PC	Fa 0	SW-02	Fa 0/2		Pradeep Rajapaksha
Lankika-PC	Fa 0	SW-03	Fa 0/1		Lankika Jayathunga
Prabudhdha-PC	Fa 0	SW-03	Fa 0/2		Prabudhdha Silva
Gayan-PC	Fa 0	SW-04	Fa 0/1		Gayan Samarasingha
Visura-PC	Fa 0	SW-04	Fa 0/2		Visura Peris
Nayantha-PC	Fa 0	SW-05	Fa 0/1		Nayantha Maleesha
Udara-PC	Fa 0	SW-05	Fa 0/2		Udara Kaushalya
Nadeeka-PC	Fa 0	SW-06	Fa 0/1		Nadeeka Jayasooriya
Binal-PC	Fa 0	SW-06	Fa 0/2		Binal Perera
Hiran-PC	Fa 0	SW-07	Fa 0/1		Hiran Peris
Lahiru-PC	Fa 0	SW-07	Fa 0/2		Lahiru Hashan
Megha-PC	Fa 0	SW-08	Fa 0/1		Megha Disanayake
Damith-PC	Fa 0	SW-08	Fa 0/2		Damith Perera
Palitha-PC	Fa 0	SW-09	Fa 0/1		Palitha Kasun
Asanka-PC	Fa 0	SW-09	Fa 0/2		Asanka Gamage
Web /DHCP	Fa 0	SW-10	Fa 0/1		

DNS / Email	Fa 0	SW-10	Fa 0/2		
Navoda-PC	Fa 0	SW-11	Fa 0/1		Navoda Silva
Preemal-PC	Fa 0	SW-12	Fa 0/1		Preemal Rajapaksha
Achala-PC	Fa 0	SW-13	Fa 0/1		Achala Herath
Gimhana-PC	Fa 0	SW-14	Fa 0/1		Gimhana Sandeepa

01. Using VLSM Method and Finding IP Address. As well as every **Gigabyt Ethernet** Interface and Every **Serial DCE** ports are using **their highest IP** address. (No any future growth and Default gateway is already having user count)

02. Basic Configuration.

   i.   Set date and time for **every layer3** devices.

   ii. Set Banner message
       ##
          This is Secure area. Please Enter your Authentication.
       ##

   iii. Password:
       Enable Secret: **Your Name with @2520.lk (First and Last Before Letters Capital) YasiRu@2520.lk**
       Console Password: **Your Name with@2540.lk(First and Second Letters Capital) JAnath@2540.lk**

       SSH Configuration
               Username: **sshadmi**
               Secret: **Admin@$ltSc.Lk**
               RSA Crypto key Module: **2048**
               Domain-name: **sltsc.lk**

04. Password minimum length is **10** digits.
05. Blocking Brute-force attack
       Failed Attempts - 02
       Within - 01 minits
       Block for – 15 minits

06. Create a web site to web server as a Cisco Networking Academy. Its domain name **www.sltsc.lk** well as every user can access the web site.

07. Create an email server all clients and their password are mail@123. every users have same email password and their email address are following like this.
       Eg:- Bimal@sltsc.lk

08. Every remote session and console session time duration is 20 minutes.
09. DNS server IP address is their Lowest address and WEB Server for use Second Lowest address.
10. Save every network device configuration to the TFTP serve. Use WEB Server IP address for TFTP.