Sample project for the Topics CCNA:

The first:

1- Building The topology as you show in figure:

2-Configure Basic configuration as following:

A-Hostname to switches S1 as your first name, S2 as Second name,S3..

B- Hostname to Routers First name, Second name,..

C- Use domain name ((ITI.com))

D- All line password (3 first letters from every first name, second name, third name)

E-Encrypt your password

F-Username ((your Third name)) pass 123

G-Enable VTY SSH only with default module bits

The second:

1-Creat VLANS 10, 20, 30 on Sw1   and 40, 50, 60 on SW2 as following:

A-VLAN 10 interfaces f0/1, f0/2, and f0/3

B-VLAN 20 interfaces f0/4, f0/5, and f0/6

C-VLAN 30 interfaces G0/1

D-VLAN 40 interfaces f0/1, f0/2, and f0/3

E-VLAN 50 interfaces f0/4, f0/5, and f0/6

F-VLAN 60 interfaces G0/1

G-Make STP on switches Rapid

The third:

-DHCP configuration:

1-configure suitable DHCP pools on Router to can distribute IP add with subnet mask and default router and DNS is (192.168.7.10) to all end devices in network.

2-All pools with subnet mask class C (255.255.255.0)   /24

A-VLAN 10   pool 192.168.x.0/24 default router 192.168.x.1

B-VLAN 20   pool 192.168.x+1.0/24 default router 192.168.x+1.1

C-VLAN 30   X+2

D-VLAN 40   X+3

E-VLAN 50   X+4

F-VLAN 60   x+5

G-SW3

H-Sw4 Pool 10.10.50.0 /24 default router 10.10.50.1

The forth:

1- **Routing area with 3 Routers You can use any dynamic Routing protocol (EIGRP)**
2- **Configure two routers with serial cable as default route.**
3- **Add radius Server on your network and make default authentication through it.**

ACL:

1-Make host 192.168.x.2 denied from use DNS services

2-Make network 192.168.x+2.0/24 do not access web server

3-Add Mail Server and make ACL prevent VLAN 10 from mail services.

Thanks. With MY best Wishes   Engineer/Saleh Mahmoud