Q2) Configure AAA Authentication.

1. Configure a local user account on Router and configure authenticate on the console

and vty lines using local AAA.

Steps for OSPF Configuration.

1.Go to Router 1 and write following commands.

1.line vty 0 4

2.password admin

3.login

4.router ospf 1

5.network 192.168.1.0 0.0.0.255 area 0

6.network 10.1.1.0 0.0.0.255 area 0

2. Go to Router 2 and write following commands

1. line vty 0 4
2. password admin
3. login
4. router ospf 2
5. network 192.168.2.0 0.0.0.255 area 0
6. network 10.2.2.0 0.0.0.255 area 0
7. network 10.1.1.0 0.0.0.255 area 0

3. Go to Router 3 and write following commands.

1. line vty 0 4
2. password admin
3. login
4. router ospf 3
5. network 192.168.3.0 0.0.0.255 area 0
6. network 10.2.2.0 0.0.0.255 area 0

Steps to configure AAA:

1.Go to R1 and write following commands:

username Admin1 secret admin1pa55

1. aaa new-model
2. aaa authentication login default local
3. line console 0
4. login authentication default
5. end
6. exit

2. Press Enter>You will be asked to enter username and password>Enter the username

and password you chose.

3. Go to R1 and write following commands.

1. ip domain-name ccnasecurity.com
2. crypto key generate rsa
3. How many bits in the modulus [512]: 1024
4. aaa authentication login SSH-LOGIN local
5. line vty 0 4
6. login authentication SSH-LOGIN
7. transport input ssh
8. end

4. Go to PC-A>Go to Command Prompt of PC-A and write the ssh -l Admin1

192.168.1.1.

1. Verify local AAA authentication from the Router console and the PC-A client.
2. Go to R2>CLI>Write the following commands.
3. username Admin2 secret admin2pa55
4. Go to TACACS server>Services> AAA>Turn on the Service and fill out as below.

3. Go to R2>CLI>Write the following commands.

1. aaa new-model

2. aaa authentication login default group tacacs+ local.

3. line console 0

4. login authentication default

5. end

4. Go to R3>CLI>Write the following commands.

1. username Admin3 secret admin3pa55

5. Go to Radius Server>Services>AAA>Fill out as shown below.

6.Go to R3>CLI>Write following Commands.

1. aaa new-model

2. aaa authentication login default group radius local

3. line console 0

4. login authentication default

5. end

6. exit