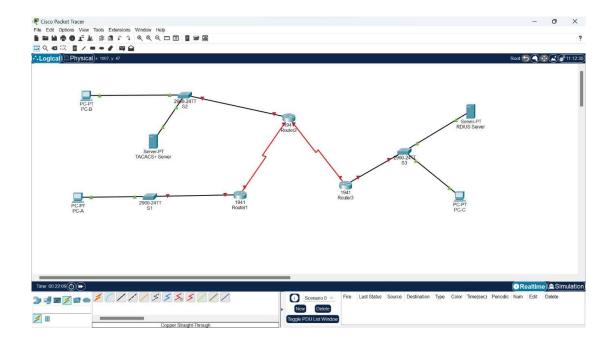
Date: 29/01/2024 Security in Computing

Practical 2:

> Aim: Configure AAA Authentication.

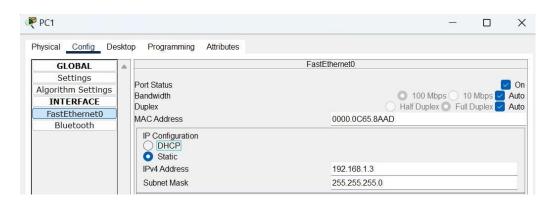
- a. Configure a local user account on Router and configure authenticate on the console and vty lines using local AAA.
- b. Verify local AAA authentication from the Router console and the PC-A client.

> Topology Diagram:

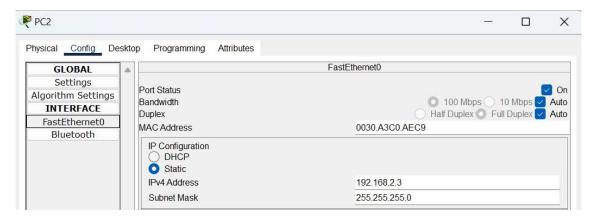


> Assigning IP Address:

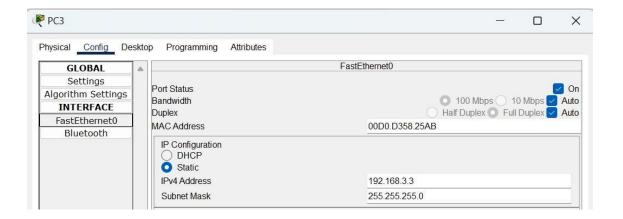
1. PC1



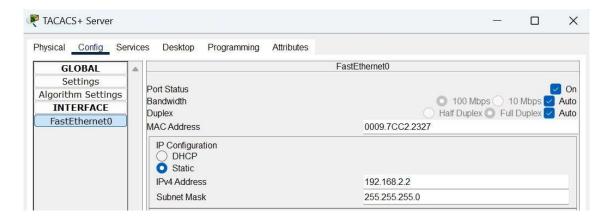
2. PC2



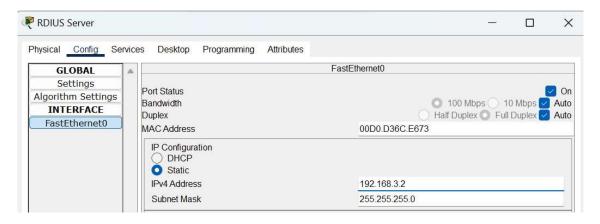
3. PC3



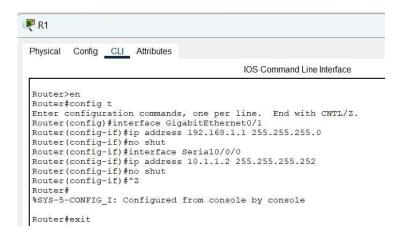
4. TACACS+ Server

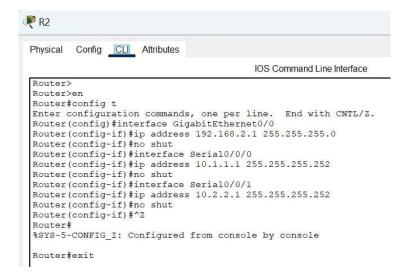


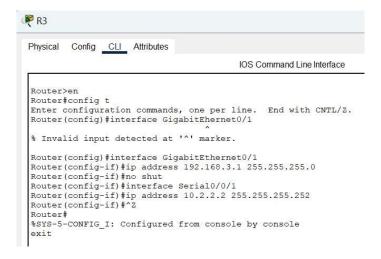
5. RADIUS Server



6. R1

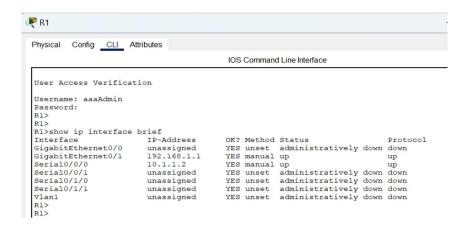


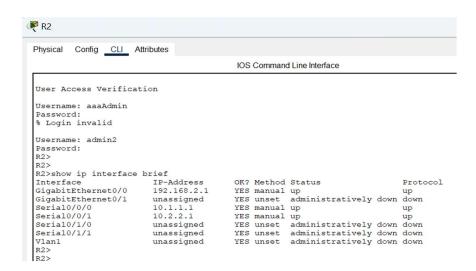


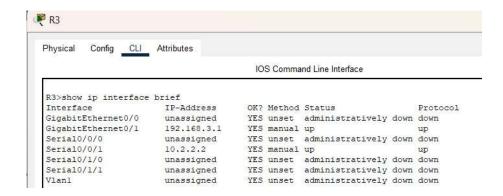


Displaying IP Address Details of Routers

1. R1



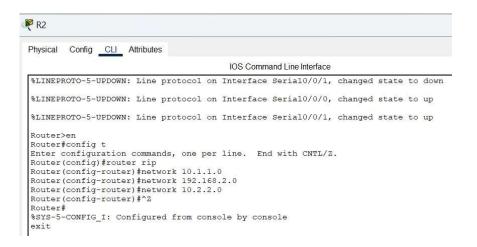


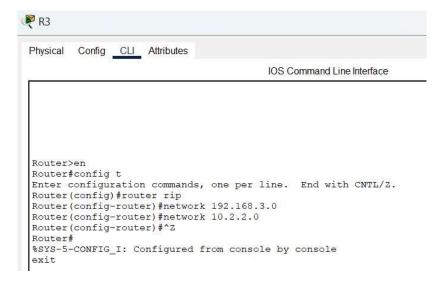


Configure RIP on routers

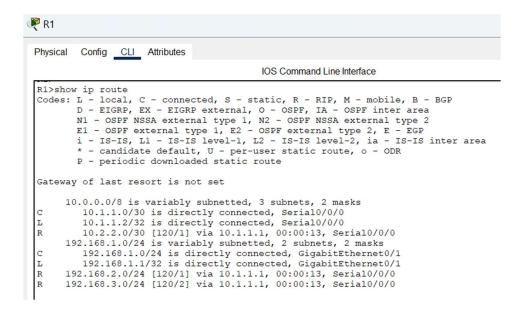
1. R1

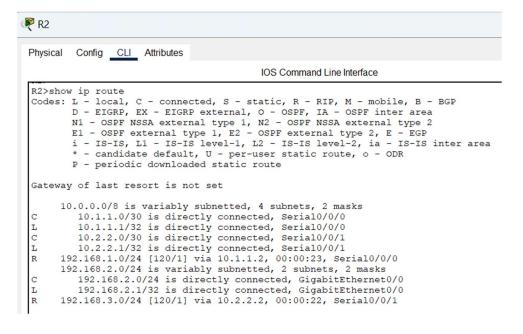


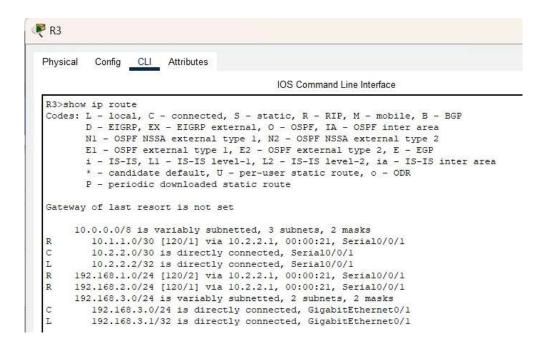




> <u>Displaying routing tables of routers</u>

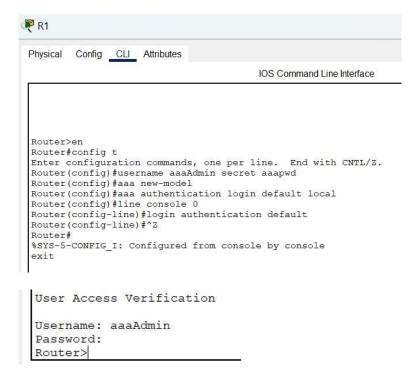




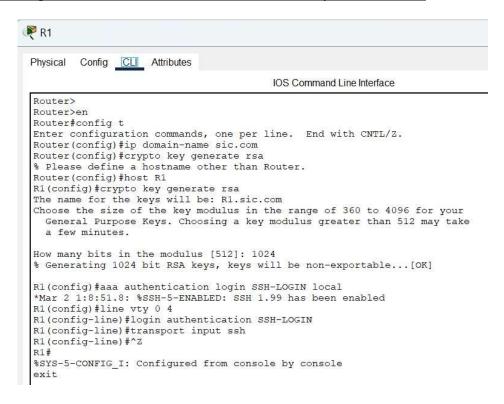


Configure Local AAA Authentication for Console Line on R1

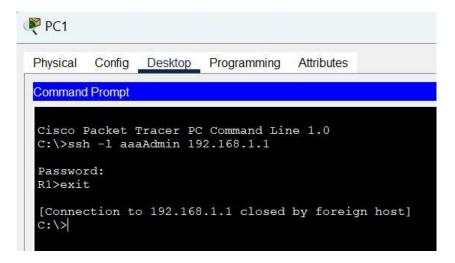
1. R1



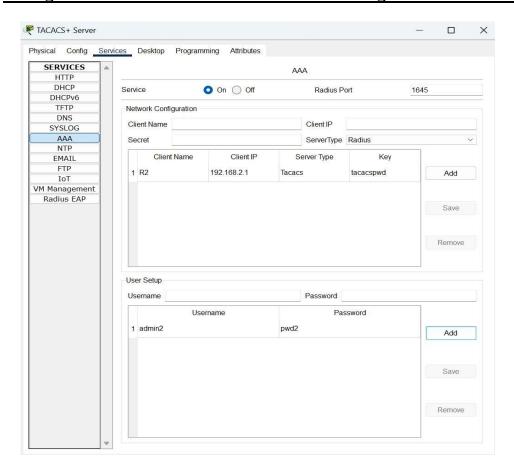
Configure Local AAA Authentication for vty Lines on R1



PC1

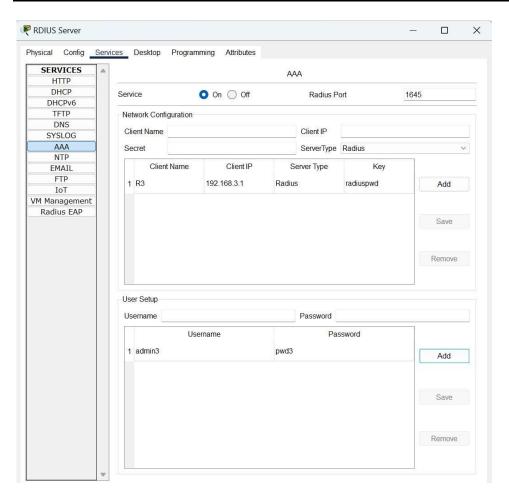


➤ Configure Server-Based AAA Authentication Using TACACS+ on R2



```
₹ R2
Physical Config CLI Attributes
                                                     IOS Command Line Interface
 R2>en
 R2#config t
 Enter configuration commands, one per line. End with CNTL/Z. R2(config) #username admin2 secret pwd2 R2(config) #tacacs-server host 192.168.2.2
 R2(config) #tacacs-server key tacacspwd
 R2(config) #aaa new-model
 R2(config) #aaa authentication login default group tacacs+ local
 R2(config) #line console 0
R2(config-line) #login authentication default
R2(config-line) #^2
 R2#
 %SYS-5-CONFIG_I: Configured from console by console
 exit
   Username: admin2
   Password:
   R2>
```

> Configure Server-Based AAA Authentication Using RADIUS on R3





User Access Verification

Username: admin3

Password:

