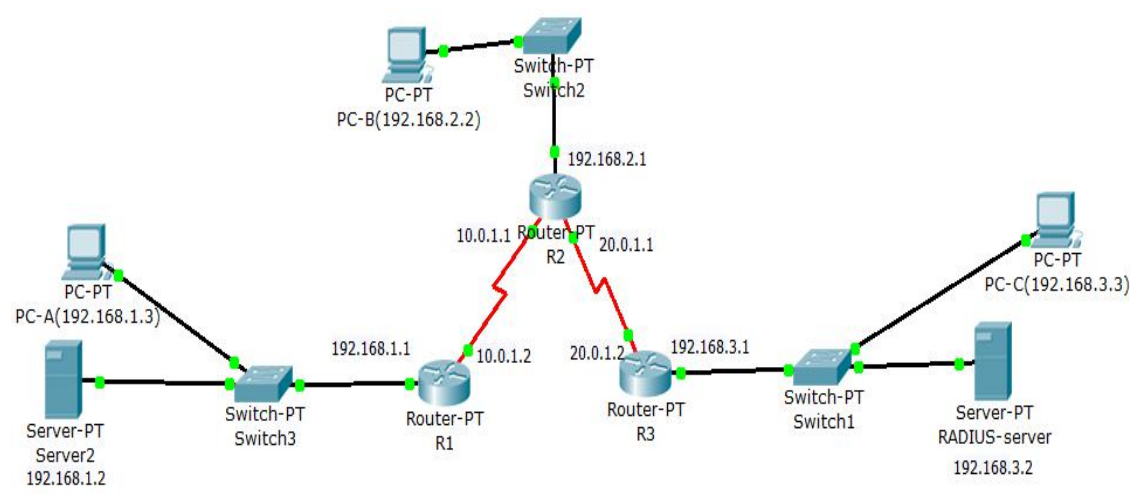


Practical No:03
(Configure AAA Authentication)

Structure:



- A) Configure a local user account on Router and configure authenticate on the console and vty lines using local AAA.
- Part 1: Configure Local AAA Authentication for Console Access on R2.

```
R2>en
R2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#username sandy secret srm
R2(config)#aaa new-model
R2(config)#aaa authentication login ?
WORD      Named authentication list.
default   The default authentication list.
R2(config)#aaa authentication login default ?
enable    Use enable password for authentication.
group     Use Server-group.
local     Use local username authentication.
none      NO authentication.
R2(config)#aaa authentication login default local
R2(config)#line console 0
R2(config-line)#login authentication default
R2(config-line)#end
R2#
%SYS-5-CONFIG_I: Configured from console by console
R2#exit

R2 con0 is now available

Press RETURN to get started.

User Access Verification
Username: sandy
Password:
R2>
```

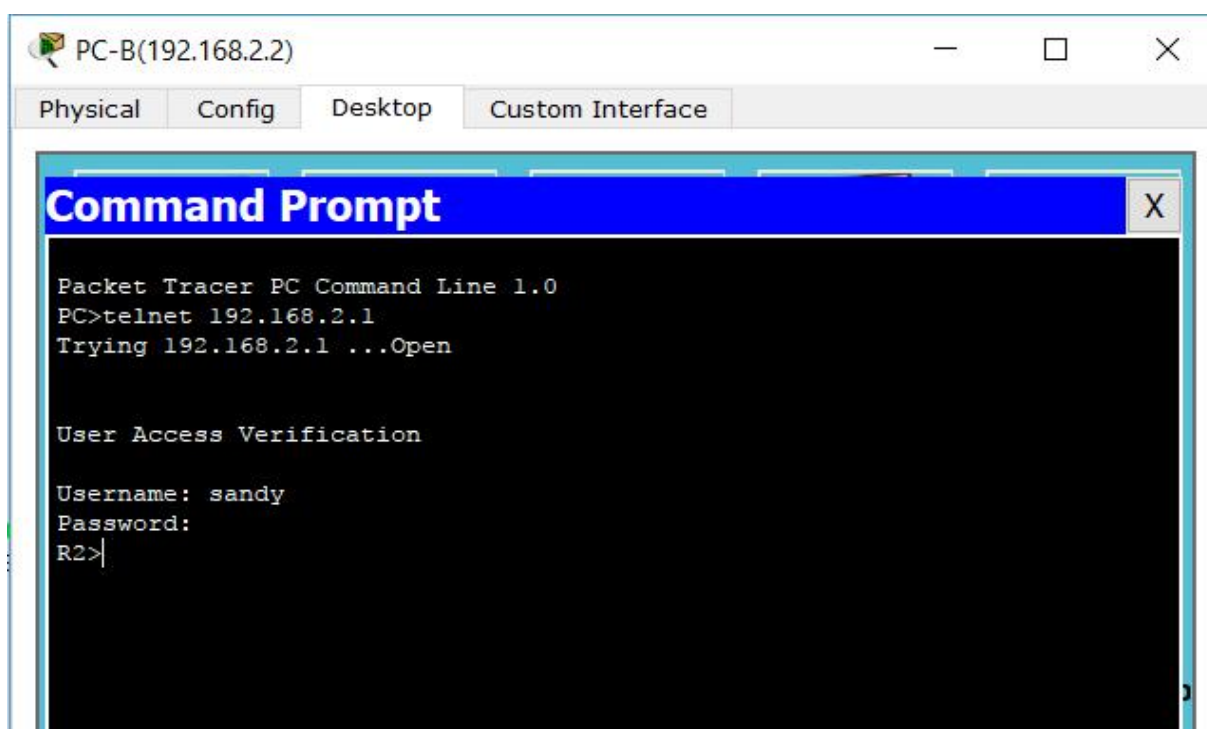
Part 2: Configure Local AAA Authentication for VTY Lines on R2.

```

R2>en
R2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#line vty 0 4
R2(config-line)#login authentication ?
    WORD      authenticate using aaa method list
    default    authenticate using aaa default list
R2(config-line)#login authentication TELNET-LOGIN
AAA: Warning authentication list TELNET-LOGIN is not defined for LOGIN
R2(config-line)#end
R2#
%SYS-5-CONFIG_I: Configured from console by console
R2#

```

**B] Verify local AAA authentication from the Router console and the PC-B client.
Verify the AAA authentication method.**

**Part 3: Configure Server-Based AAA Authentication Using TACACS+ on R1**

The screenshot shows a Packet Tracer Router Command Line window for R1. The window has tabs for Physical, Config, and CLI. The IOS Command Line Interface is open, showing the following configuration commands:

```

R1(config-if)#exit
R1(config)#username sandyl secret srml
R1(config)#tacacs-server host 192.168.1.2
R1(config)#tacacs-server key sawant
R1(config)#aaa new-model
R1(config)#aaa authentication login default group tacacs+ local
R1(config)#line console 0
R1(config-line)#login authentication default
R1(config-line)#end
R1#
%SYS-5-CONFIG_I: Configured from console by console

```

```
R1#exit


R1 con0 is now available

Press RETURN to get started.

User Access Verification

Username: sandyl
Password:
R1>
```

Part 4: Configure Server-Based AAA Authentication Using RADIUS on R3



The screenshot shows the R3 CLI interface with the following configuration steps:

```
R3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#username sandy2 secret srm2
R3(config)#radius-server host 192.168.3.2
R3(config)#radius-server key sawant1
R3(config)#aaa new-model
R3(config)#aaa authentication login default group radius local
R3(config)#line console 0
R3(config-line)#login authentication default
R3(config-line)#end
R3#
%SYS-5-CONFIG_I: Configured from console by console

R3#exit

R3 con0 is now available

Press RETURN to get started.

User Access Verification

Username: sandy2
Password:
R3>
```