# Experiment - 22

Aim IOT band AAA Local & server based
  authentication Configuration.

Software: Packet Tracer, Hubs, Connectors

Procedure

1. Define the Components
2. setup Local AAA Server
3. Implement Local authentication
4. Implement Local authorisation
5. Configure Control AAA Server
6. Implement Server authentication
7. Implement Server authorization
8. Logging & accounting
9. Revocation & updates.
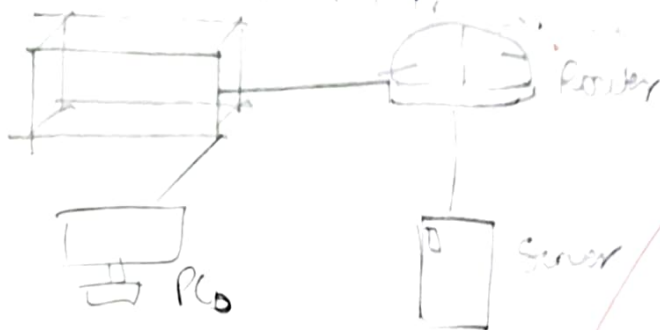
Result: IOT based AAA Local & Server based
authentication is designed Successfully.

Rout 3
192.168.1.1/24

server 3
192.168.1.2/24

pc3
192.168.1.3/24

user name
Chris

password
Cisco

Server-PT
Server0

AAA

ISR4331
Router0

2960-24TT
Switch0

PC-PT
PC2

PC2
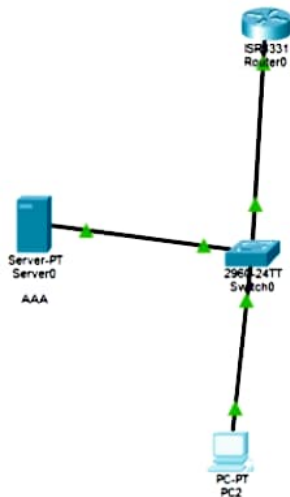
Command Prompt   x

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>telnet 192.168.1.1
Trying 192.168.1.1 ...Open


User Access Verification

Username: chris
Password:
Router>
```

Top

```
Router(config)#radius server MY_RADIUS
Router(config-radius-server)#address ipv4 192.168.1.2
Router(config-radius-server)#key cisco
 WARNING: Command has been added to the configuration using a type 0 password. However, type 0 passwords will soon be
deprecated. Migrate to a supported password type
*Dec 15 22:31:29.623: %AAAA-4-CLI_DEPRECATED: WARNING: Command has been added to the configuration using a type 0 password.
However, type 0 passwords will soon be deprecated. Migrate to a supported password type
Router(config-radius-server)#exit
Router(config)#aaa authentication login AAA group radius
Router(config)#line vty 0 4
Router(config-line)#login authentication AAA
Router(config-line)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```