#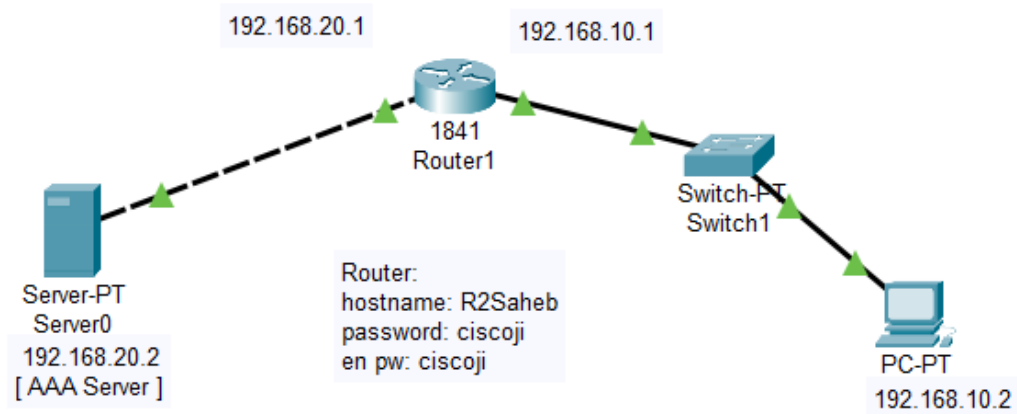 Configuration and verification of remote user authentication on a Cisco router using AAA server based username-password authentication.


```
192.168.20.1                192.168.10.1

                    1841
                    Router1

                                    Switch-PT
                                    Switch1

Server-PT          Router:
Server0            hostname: R2Saheb
192.168.20.2       password: ciscoji          PC-PT
[ AAA Server ]     en pw: ciscoji             192.168.10.2
```


Router1

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R2Saheb
R2Saheb(config)#enable password ciscoji
R2Saheb(config)#ip domain-name rajaji.com
R2Saheb(config)#username Admin password ciscoji
R2Saheb(config)#crypto key generate RSA
```

GO to Service of server
AAA

Server0

Physical   Config   Services   Desktop   Programming   Attributes

SERVICES

AAA

| Service | ● On ○ Off | Radius Port | 1645 |

Network Configuration

| Client Name | R2Saheb | Client IP | 192.168.20.1 |
| Secret | AliensReal | ServerType | Tacacs |

	Client Name	Client IP	Server Type	Key
1	R2Saheb	192.168.20.1	Tacacs	AliensReal

Add   Save   Remove

User Setup

| Username | teacher | Password | teacher123 |

	Username	Password
1	student	student123
2	teacher	teacher123

Add   Save   Remove

Router

```
R2Saheb(config)#tacacs-server host 192.168.20.2 key AliensReal
*Mar 1 0:1:30.734: %SSH-5-ENABLED: SSH 1.99 has been enabled
R2Saheb(config)#aaa new-model
R2Saheb(config)#aaa authentication login default group tacacs+ local
R2Saheb(config)#line vty 0 4
R2Saheb(config-line)#login authentication default
R2Saheb(config-line)#line console 0
R2Saheb(config-line)#login authentication default
R2Saheb(config-line)#^Z
R2Saheb#
```

PC1

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
[Connection to 192.168.10.1 closed by foreign host]
C:\>telnet 192.168.10.1
Trying 192.168.10.1 ...Open


User Access Verification

Username: student
Password:
R2Saheb>en
Password:
R2Saheb#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R2Saheb(config)#exit
R2Saheb#exit

[Connection to 192.168.10.1 closed by foreign host]
C:\>
C:\>
```