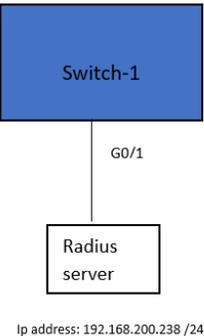


AAA Test Report

Test	RADIUS/TACACS+ in AS200/28/XF v139318
Test procedure	 <p style="text-align: center;">Ip address: 192.168.200.238 /24</p>
configuration	<p>To Configure radius in switch</p> <p>AAA configuration for radius:</p> <pre> aaa authentication login default group radius local aaa authentication enable default none aaa authorization exec default group radius local </pre> <p>Note: for tacacs+ replace the "radius" with "tacacs+" in the AAA configuration</p> <p>configuration for radius:</p> <pre> radius-server host 192.168.200.238 // for radius server radius-server key 0 Alpha@123# // for radius handshake key </pre> <p>configuration for TACACS+:</p> <pre> tacacs-server host 192.168.200.238 key 0 Alpha@123 // for TACACS+ server and handshake key </pre> <p>We are using Free radius for testing.</p>

To add the switch in the radius server

- Add the network switch as a client in the clients.conf file. This file specifies which devices are allowed to communicate with the RADIUS server.
- Location of the file: `sudo nano /etc/freeradius/3.0/clients.conf`
- Add the following script

```
GNU nano 4.8
client AS228XF_v2 {
    ipaddr = 192.168.200.245
    secret = Alpha@123#
    shortname = AS228XF_v2
}

client AS228XF_V1 {
    ipaddr = 192.168.200.242
    secret = Alpha@123#
    shortname = AS228XF_V1
}

client testpc {
    ipaddr = 192.168.200.241
    secret = Alpha@123#
    shortname = testpc
}
```

- In this script I have added two devices in the server which are named as “AS228XF_v1” and “testpc”
- Replace “192.168.200.242” with the IP address of your switch, and “Alpha@123#” with a shared secret key that you will also configure on your switch.

users present in radius server

username :tagore

password :ptsg1012

```

GNU nano 4.8
tagore Cleartext-Password := "ptsg1012"
      Service-Type = Administrative-User,
      Reply-Message = "Hello, %{User-Name}"

srikanth Cleartext-Password := "srikanth123"
      Service-Type = Login-User,
      Reply-Message = "Hello, %{User-Name}"

charan Cleartext-Password := "charan123"
      Service-Type = Login-User,
      Reply-Message = "Hello, %{User-Name}"

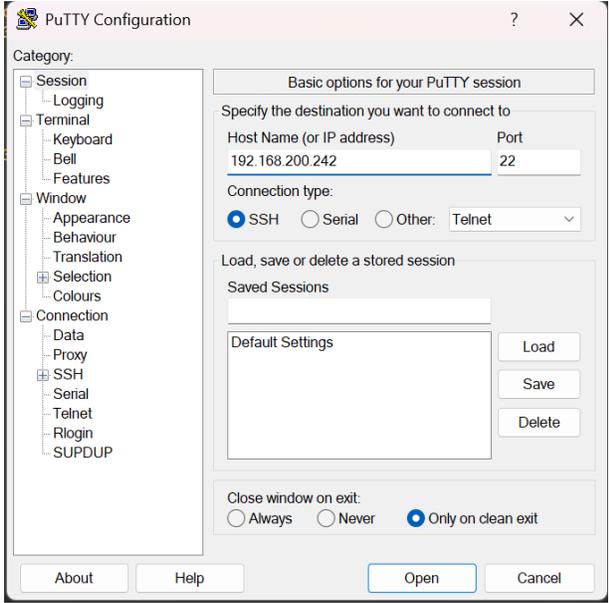
mukesh Cleartext-Password := "mukesh123"

```

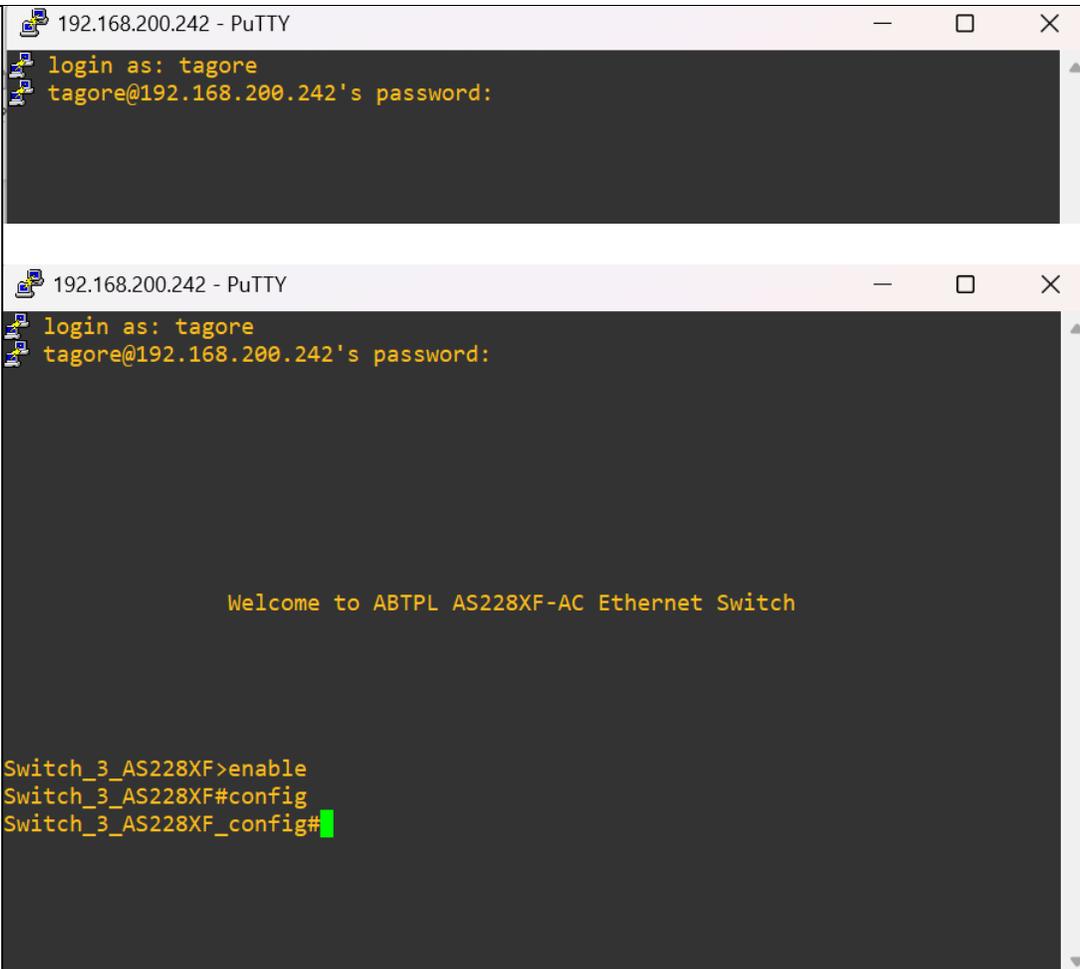
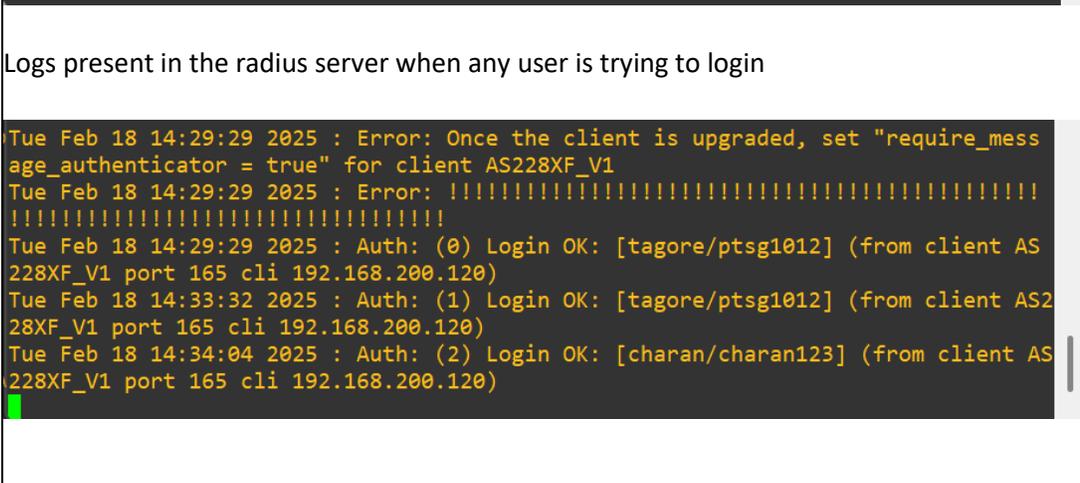
User Tagore have high previllage and remaining have low level previllage

Trying to login with high level previlage user

test result



The screenshot shows the PuTTY Configuration dialog box. The 'Category' list on the left includes Session, Logging, Terminal, Keyboard, Bell, Features, Window, Appearance, Behaviour, Translation, Selection, Colours, Connection, Data, Proxy, SSH, Serial, Telnet, Rlogin, and SUPDUP. The 'Basic options for your PuTTY session' section is active, showing 'Host Name (or IP address)' as 192.168.200.242 and 'Port' as 22. The 'Connection type' is set to SSH. The 'Close window on exit' options are 'Always', 'Never', and 'Only on clean exit', with 'Only on clean exit' selected. Buttons for 'About', 'Help', 'Open', and 'Cancel' are visible at the bottom.

	 <pre> 192.168.200.242 - PuTTY login as: tagore tagore@192.168.200.242's password: Welcome to ABTPL AS228XF-AC Ethernet Switch Switch_3_AS228XF>enable Switch_3_AS228XF#config Switch_3_AS228XF_config# </pre>
	<p>Logs present in the radius server when any user is trying to login</p>  <pre> Tue Feb 18 14:29:29 2025 : Error: Once the client is upgraded, set "require_message_authenticator = true" for client AS228XF_V1 Tue Feb 18 14:29:29 2025 : Error: !!! !! Tue Feb 18 14:29:29 2025 : Auth: (0) Login OK: [tagore/ptsg1012] (from client AS228XF_V1 port 165 cli 192.168.200.120) Tue Feb 18 14:33:32 2025 : Auth: (1) Login OK: [tagore/ptsg1012] (from client AS228XF_V1 port 165 cli 192.168.200.120) Tue Feb 18 14:34:04 2025 : Auth: (2) Login OK: [charan/charan123] (from client AS228XF_V1 port 165 cli 192.168.200.120) </pre>
Remarks	Working