How to setup the AAA function via FreeRadius on DGS-6600 and the Radius Server?

[Target]

The user can (1) login the switch and (2) enter Enable Mode via the authentication of the Radius Server.

[Part 1] For Radius Server- FreeRadius on Linux

(1.1) Refer to the example for the configuration file "**users**", we should create two users: one is for the switch login, and the other is for the enable mode login.

debian:/# vi /etc/freeradius/users

test1   Cleartext-Password := "test"

enable   Cleartext-Password := "test"

(1.2) Then add the switch to the clients of the Radius Server and assign a key to the switch, refer to the example of the configuration file "**clients.conf**".

debian:/# vi /etc/freeradius/clients.conf

client 10.90.90.90   {

*   secret   = testing123*

*   shortname   = dgs6600*

}

(1.3) Start the Radius Server (IP: 10.90.90.99) to listen on port 1812.

debian:/# freeradius -i 10.90.90.99 -p 1812 -X

.....

radiusd: #### Opening IP addresses and Ports ####

Listening on authentication address 10.90.90.99 port 1812

Listening on accounting address 10.90.90.99 port 1813

Listening on proxy address 10.90.90.99 port 1814

Ready to process requests.

[Part 2] For DGS-6600 configuration

(2.1) Assign a IP address (10.90.90.90) to VLAN 1.

DGS-6600:15(config)#interface vlan1

DGS-6600:15(config-if)#ip address 10.90.90.90/24

(2.2) In order to start the authentication of DGS-6600, we should create a "**user account/password**" and "**the password of Enable Mode**" on the local first.

DGS-6600:15(config)#username abc privilege 15 password plain-text 123456

DGS-6600:15(config)#enable password privilege 15 password plain-text 123456

(2.3) Create a Radius Server information and then configure the AAA function for Console, SSH, HTTP, Telnet on DGS-6600.

For Radius Server info

DGS-6600:15(config)#aaa group server radius

DGS-6600:15(config-aaa-group-server)# server radius 10.90.90.99 key testing123

DGS-6600:15(config-aaa-group-server)#aaa authentication login console group radius

For Console

DGS-6600:15(config)#aaa authentication login console group radius

DGS-6600:15(config)#aaa authentication enable console group radius

For Telnet

DGS-6600:15(config)#aaa authentication login   telnet group radius

DGS-6600:15(config)#aaa authentication enable telnet group radius

For SSH

DGS-6600:15(config)#aaa authentication login   ssh group radius

DGS-6600:15(config)#aaa authentication enable ssh group radius

For HTTP

DGS-6600:15(config)#aaa authentication login   http group radius

DGS-6600:15(config)#aaa authentication enable http group radius

[Part 3] Login Test

Topology

PC---- (eth 2.1) **DGS-6600** (eth2.2) ----- **Radius Sever**

Configuration

Follow the above steps.

Result