

How to setup the AAA function via Tacacs+ on DGS-6600 and the Tacacs+ Server?

[Target]

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

[Part 1] For Tacacs+ Server- Tacacs+ on Linux

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

```
debian:~# vi /etc/tacacs+/tac_plus.conf
user = test1 {
    login = cleartext test
}
user = $enable$ {
    login = cleartext test
}
```

(1.2) Start the Tacacs+ Server (IP: 10.90.90.99).

```
debian:~# /etc/init.d/tacacs_plus start
Starting TACACS+ authentication daemon : tacacs+.
debian:~#
```

[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 Tacacs+ Server information and then configure the AAA function for Console, SSH, HTTP, Telnet on DGS-6600.

For Tacacs+ Server info

```
DGS-6600:15(config)#aaa group server tacacs+
```

```
DGS-6600:15(config-aaa-group-server)# server tacacs+ 10.90.90.99 key testing123
```

For Console

```
DGS-6600:15(config)#aaa authentication login console group tacacs+
```

```
DGS-6600:15(config)#aaa authentication enable console group tacacs+
```

For Telnet

```
DGS-6600:15(config)#aaa authentication login telnet group tacacs+
```

```
DGS-6600:15(config)#aaa authentication enable telnet group tacacs+
```

For SSH

```
DGS-6600:15(config)#aaa authentication login ssh group tacacs+
```

```
DGS-6600:15(config)#aaa authentication enable ssh group tacacs+
```

For HTTP

```
DGS-6600:15(config)#aaa authentication login http group tacacs+
```

```
DGS-6600:15(config)#aaa authentication enable http group tacacs+
```

[Part 3] Login Test

Topology

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

Configuration

Follow the above steps.

Result

```
User Access Verification
Username: test1 (1) User account/password
Password:
DGS-6604 Chassis-based High-Speed Switch
Command Line Interface
Firmware: 2.10.B012
Copyright (c) 2012 D-Link Corporation. All rights reserved.
DGS-6600:2>enable
Input privileged level 15 password: (2) Enable Mode password
DGS-6600:15#
DGS-6600:15#
DGS-6600:15#
DGS-6600:15#
```