Introduction

This document describes the behavior of command `aaa authentication login default local group tacacs+` on a Cisco Internetworking Operating System (IOS) Device.

**Note:** Ensure that `AAA new-model` is enabled on the device.

Configure

**Note:** Use the [Command Lookup Tool](#) (registered customers only) in order to obtain more information on the commands used in this section.

Configure these commands on the device in global configuration mode:

```
With just "aaa new model line con 0)".
```

Here the AAA method list is applied on all login attempts on all lines of the device, where first local database is checked and then if required, Terminal Access Controller Access Control System (TACACS) server is tried.

Local user database.

TACACS server configured.

Verify

Use this section to confirm that your configuration works properly.

1. Enable **Debug TACACS** and **Debug AAA Authentication** on the device under test.
2. Perform a telnet on the device:

```
RUT#telnet 192.168.1.2
Trying 192.168.1.2 ... Open
User Access Verification

Username: cisco
*Jul 23 09:34:37.023: AAA/BIND(0000001E): Bind i/f
```
You notice that it did not try to reach the TACACS server as username cisco was found locally.

Now, if you try to use a credential that is not configured locally on the box:

RUT#telnet 192.168.1.2
Trying 192.168.1.2 ... Open

User Access Verification

Username:
*Jul 23 09:36:01.099: AAA/BIND(0000001F): Bind i/f
*Jul 23 09:36:01.099: AAA/AUTHEN/LOGIN (0000001F): Pick method list 'default'

Username: cisco1
*Jul 23 09:36:11.095: TPLUS: Queuing AAA Authentication request 31 for processing
*Jul 23 09:36:11.095: TPLUS: processing authentication start request id 31
*Jul 23 09:36:11.095: TPLUS: Authentication start packet created for 31(cisco1)
*Jul 23 09:36:11.095: TPLUS(0000001F)/0/NB_WAIT/47A14C34: Started 5 sec timeout
*Jul 23 09:36:16.095: TPLUS(0000001F)/0/NB_WAIT/47A14C34: timed out
*Jul 23 09:36:16.095: TPLUS(0000001F)/0/NB_WAIT/47A14C34: timed out, clean up
*Jul 23 09:36:16.095: TPLUS(0000001F)/0/47A14C34: Processing the reply packet
% Authentication failed

You notice that it tries to reach the TACACS server 10.20.220.141. It is an expected default behavior. There is no username cisco1 configured on the TACACS server, hence shows Authentication failed.

If the device has AAA Authentication login default group tacacs+ local % Authentication failed message.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

Related Information

- Configuring Basic AAA on an Access Server
- Technical Support & Documentation - Cisco Systems