

# IOS HTTP服务器的AAA控制

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## 简介

本文档显示如何通过身份验证、授权和记帐(AAA)控制对Cisco IOS® HTTP服务器的访问。使用AAA访问Cisco IOS HTTP服务器的控制因Cisco IOS软件版本而异。

## 先决条件

### 要求

本文档没有任何特定的要求。

### 使用的组件

本文档不限于特定的软件和硬件版本。

### 规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

## 确定您拥有的HTTP服务器版本

发出exec命令show subsys name http，以查看您拥有的HTTP服务器的版本。

```
router1#show subsys name http
```

```
Class          Version
http          Protocol  1.001.001
```

这是一个带有HTTP V1.1服务器的系统。Cisco IOS软件版本12.2(15)T和所有Cisco IOS软件版本12.3都有HTTP V1.1。

```
router2#show subsys name http
```

```
Class          Version
http          Protocol  1.000.001
```

这是一个具有HTTP V1服务器的系统。早于12.2(15)T的思科IOS软件版本(包括思科IOS软件版本12.2(15)JA和12.2(15)XR)具有HTTP V1。

## 带有HTTP V1服务器的Cisco IOS软件

在包含HTTP V1服务器的Cisco IOS软件版本中，HTTP会话使用虚拟终端线路(vty)。因此，HTTP身份验证和授权使用为vty配置的相同方法进行控制。

```
ip http server
!
aaa new-model
aaa authentication login VTYSandHTTP radius local
aaa authorization exec VTYSandHTTP radius local
!
ip http authentication aaa
!
line vty 0 19
!--- The number of vtys you have. login authentication VTYSandHTTP authorization exec
VTYSandHTTP
```

## 带有HTTP V1.1服务器的Cisco IOS软件

在带有HTTP V1.1服务器的Cisco IOS软件版本中，HTTP会话不使用vty。他们使用插座。

## HTTP V1.1服务器 — 在Cisco Bug ID CSCeb82510之前

在集成Cisco IOS软件版本12.3(7.3)和12.3(7.3)T中的Cisco Bug ID [CSCeb82510](#) (仅限注册客户)之前，HTTP V1.1服务器必须使用为控制台配置的相同身份验证和授权方法。

```
ip http server
!
aaa new-model
aaa authentication login CONSOLEandHTTP radius local
aaa authorization exec CONSOLEandHTTP radius local
!
ip http authentication aaa
!
line con 0
login authentication CONSOLEandHTTP
authorization exec CONSOLEandHTTP
```

## HTTP V1.1服务器 — 在Cisco Bug ID CSCeb82510之后

通过集成Cisco IOS软件版本12.3(7.3)和12.3(7.3)T中的Cisco Bug ID [CSCeb82510](#) ( 仅注册客户 ) , HTTP服务器可以使用其自己的独立身份验证和授权方法 , 并在ip http中添加新的关键字 **authentication aaa**命令。新关键字为 :

```
router(config)#ip http authentication aaa command-authorization listname
router(config)#ip http authentication aaa exec-authorization listname
router(config)#ip http authentication aaa login-authentication listname
```

以下是输出示例 :

```
ip http server
!
aaa new-model
aaa authentication login HTTPOnly radius local
aaa authorization exec HTTPOnly radius local
!
ip http authentication aaa
ip http authentication aaa exec-authorization HTTPOnly
ip http authentication aaa login-authentication HTTPOnly
```

## 调试

发出以下**debug**命令以排除HTTP身份验证/授权问题 :

```
debug ip tcp transactions
debug modem
!--- If you use the HTTP 1.0 server. debug ip http authentication debug aaa authentication debug
aaa authorization debug radius !--- If you use RADIUS. debug tacacs !--- If you use TACACS+.
```

此输出显示了一些调试示例 :

```
*Apr 23 13:12:16.871: TCB626DD444 created
*Apr 23 13:12:16.871: TCP0: state was LISTEN -> SYNRCVD [80 -> 64.101.98.203(19662)]
*Apr 23 13:12:16.871: TCP0: Connection to 64.101.98.203:19662, received MSS 1460, MSS is 516
*Apr 23 13:12:16.875: TCP: sending SYN, seq 2078657456, ack 2459301798
*Apr 23 13:12:16.875: TCP0: Connection to 64.101.98.203:19662, advertising MSS 536
*Apr 23 13:12:16.899: TCP0: state was SYNRCVD -> ESTAB [80 -> 64.101.98.203(19662)]

!--- The TCP connection from the browser on 64.101.98.203 to the !--- local HTTP server is
established. *Apr 23 13:12:16.899: TCB62229100 accepting 626DD444 from 64.101.98.203.19662 *Apr
23 13:12:16.899: TCB626DD444 setting property TCP_PID (8) 626FEC84 *Apr 23 13:12:16.899:
TCB626DD444 setting property TCP_NO_DELAY (1) 626FEC88 *Apr 23 13:12:16.899: TCB626DD444 setting
property TCP_NONBLOCKING_WRITE (10) 626FED14 *Apr 23 13:12:16.899: TCB626DD444 setting property
TCP_NONBLOCKING_READ (14) 626FED14 *Apr 23 13:12:16.899: TCB626DD444 setting property unknown
(15) 626FED14 *Apr 23 13:12:16.919: HTTP AAA Login-Authentication List name: HTTPauthen *Apr 23
13:12:16.919: HTTP AAA Exec-Authorization List name: HTTPauthor *Apr 23 13:12:16.919:
AAA/AUTHEN/LOGIN (00000000): Pick method list 'HTTPauthen' !--- Uses 'HTTPauthen' as the login
authentication method. *Apr 23 13:12:16.919: RADIUS/ENCODE(00000000):Orig. component type =
INVALID *Apr 23 13:12:16.919: RADIUS/ENCODE(00000000): dropping service type, "radius-server
attribute 6 on-for-login-auth" is off *Apr 23 13:12:16.919: RADIUS(00000000): Config NAS IP:
0.0.0.0 *Apr 23 13:12:16.919: RADIUS(00000000): sending *Apr 23 13:12:16.919: RADIUS/ENCODE:
Best Local IP-Address 172.16.175.103 for Radius-Server 10.1.2.3 *Apr 23 13:12:16.919:
RADIUS(00000000): Send Access-Request to 10.1.2.3:1645 id 1645/2, len 51 *Apr 23 13:12:16.919:
RADIUS: authenticator 5F 6E E6 C1 3E 40 5D E2 - FB AC E8 E8 E4 93 BA 98 *Apr 23 13:12:16.919:
RADIUS: User-Name [1] 7 "cisco" *Apr 23 13:12:16.919: RADIUS: User-Password [2] 18 * *Apr 23
13:12:16.919: RADIUS: NAS-IP-Address [4] 6 172.16.175.103 !--- Sent an Access-Request to the
```

```
RADIUS server !--- at 10.1.2.3 using the username of "cisco". *Apr 23 13:12:21.923: RADIUS: Retransmit to (10.1.2.3:1645,1646) for id 1645/2 *Apr 23 13:12:26.923: RADIUS: Retransmit to (10.1.2.3:1645,1646) for id 1645/2 *Apr 23 13:12:31.923: RADIUS: Retransmit to (10.1.2.3:1645,1646) for id 1645/2 *Apr 23 13:12:36.923: RADIUS: No response from (10.1.2.3:1645,1646) for id 1645/2 *Apr 23 13:12:36.923: RADIUS/DECODE: parse response no app start; FAIL *Apr 23 13:12:36.923: RADIUS/DECODE: parse response; FAIL *Apr 23 13:12:36.923: AAA/AUTHOR (0x0): Pick method list 'HTTPhauthor' *Apr 23 13:12:36.923: RADIUS/ENCODE(00000000):Orig. component type = INVALID *Apr 23 13:12:36.923: RADIUS(00000000): Config NAS IP: 0.0.0.0 *Apr 23 13:12:36.923: RADIUS(00000000): sending *Apr 23 13:12:36.923: RADIUS/ENCODE: Best Local IP-Address 172.16.175.103 for Radius-Server 10.1.2.3 *Apr 23 13:12:36.923: RADIUS(00000000): Send Access-Request to 10.1.2.3:1645 id 1645/3, len 57 *Apr 23 13:12:36.927: RADIUS: authenticator AA DB 63 E1 D4 BF 23 9E - 49 71 78 42 A5 A3 44 B8 *Apr 23 13:12:36.927: RADIUS: User-Name [1] 7 "cisco" *Apr 23 13:12:36.927: RADIUS: User-Password [2] 18 * *Apr 23 13:12:36.927: RADIUS: Service-Type [6] 6 Outbound [5] *Apr 23 13:12:36.927: RADIUS: NAS-IP-Address [4] 6 172.16.175.103 *Apr 23 13:12:41.927: RADIUS: Retransmit to (10.1.2.3:1645,1646) for id 1645/3 *Apr 23 13:12:46.927: RADIUS: Retransmit to (10.1.2.3:1645,1646) for id 1645/3 *Apr 23 13:12:51.927: RADIUS: Retransmit to (10.1.2.3:1645,1646) for id 1645/3 *Apr 23 13:12:56.927: RADIUS: No response from (10.1.2.3:1645,1646) for id 1645/3 *Apr 23 13:12:56.927: RADIUS/DECODE: parse response no app start; FAIL *Apr 23 13:12:56.927: RADIUS/DECODE: parse response; FAIL *Apr 23 13:12:56.927: HTTP: Authentication failed for level 15 !--- Authentication has failed due to no response from the RADIUS server. *Apr 23 13:12:56.927: TCB626DD444 shutdown writing *Apr 23 13:12:56.927: TCP0: state was ESTAB -> FINWAIT1 [80 -> 64.101.98.203(19662)] *Apr 23 13:12:56.927: TCP0: sending FIN *Apr 23 13:12:56.967: TCP0: state was FINWAIT1 -> FINWAIT2 [80 -> 64.101.98.203(19662)] *Apr 23 13:12:56.967: TCP0: FIN processed *Apr 23 13:12:56.971: TCP0: state was FINWAIT2 -> TIMEWAIT [80 -> 64.101.98.203(19662)] *Apr 23 13:13:10.227: TCP0: state was TIMEWAIT -> CLOSED [80 -> 64.101.98.203(16260)] *Apr 23 13:13:10.227: TCB 0x626DCFA0 destroyed !--- The TCP connection to the browser 64.101.93.203 is closed.
```

## 相关信息

- [终端访问控制器访问控制系统 \(TACACS+\)](#)
- [远程用户拨入认证系统\(RADIUS\)](#)
- [请求注解 \(RFC\)](#)
- [技术支持和文档 - Cisco Systems](#)