

# IOS HTTP伺服器的AAA控制

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## 簡介

本文顯示如何透過驗證、授權及記帳(AAA)控制對Cisco IOS® HTTP伺服器的存取。對使用AAA的Cisco IOS HTTP伺服器的訪問的控制因Cisco IOS軟體版本而異。

## 必要條件

### 需求

本文件沒有特定需求。

### 採用元件

本文件所述內容不限於特定軟體和硬體版本。

### 慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

## 確定您使用的HTTP伺服器版本

發出exec命令show subsystem name http以檢視您的HTTP伺服器版本。

```
router1#show subsystem name http
```

```
Class          Version
http           Protocol  1.001.001
```

這是使用HTTP V1.1伺服器的系統。Cisco IOS軟體版本12.2(15)T和所有Cisco IOS軟體版本12.3都使用HTTP V1.1。

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

```
Class          Version
http           Protocol  1.000.001
```

這是使用HTTP V1伺服器的系統。低於12.2(15)T的Cisco IOS軟體版本(包括Cisco IOS軟體版本12.2(15)JA和12.2(15)XR)具有HTTP V1。

## [採用HTTP V1伺服器的Cisco IOS軟體](#)

在包含HTTP V1伺服器的Cisco IOS軟體版本中，HTTP作業階段使用虛擬終端線路(vty)。因此，HTTP身份驗證和授權使用為vty配置的相同方法控制。

```
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
```

## [採用HTTP V1.1伺服器的Cisco IOS軟體](#)

在使用HTTP V1.1伺服器的Cisco IOS軟體版本中，HTTP會話不使用vty。他們使用插座。

## [HTTP V1.1伺服器 — 思科錯誤ID CSCeb82510之前](#)

在Cisco IOS軟體版本12.3(7.3)和12.3(7.3)T中整合Cisco錯誤ID [CSCeb82510](#)(僅限[註冊](#)客戶)之前，HTTP V1.1伺服器必須使用為主控制台設定的相同驗證和授權方法。

```
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伺服器 — 思科錯誤ID CSCeb82510之後](#)

藉由在Cisco IOS軟體版本12.3(7.3)和12.3(7.3)T中整合Cisco錯誤ID [CSCeb82510](#)(僅供註冊客戶使用),HTTP伺服器可以使用其自己的獨立驗證和授權方法,並在ip http authentication aaa指令中使用新關鍵字。新關鍵字包括:

```
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
```

以下是輸出範例:

```
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
```

## 調試

發出以下debug命令,以疑難排解HTTP驗證/授權問題:

```
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+.
```

此輸出顯示一些調試示例:

```
*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.*

## **相關資訊**

- [終端存取控制器存取控制系統\(TACACS+\)](#)
- [遠端驗證撥入使用者服務\(RADIUS\)](#)
- [要求建議 \(RFC\)](#)
- [技術支援與文件 - Cisco Systems](#)