

# Controllo AAA del server HTTP IOS

## Sommario

[Introduzione](#)

[Prerequisiti](#)

[Requisiti](#)

[Componenti usati](#)

[Convenzioni](#)

[Determinare la versione del server HTTP disponibile](#)

[Software Cisco IOS con server HTTP V1](#)

[Software Cisco IOS con server HTTP V1.1](#)

[Server HTTP V1.1 - Prima dell'ID bug Cisco CSCeb82510](#)

[Server HTTP V1.1 - Dopo l'ID bug Cisco CSCeb82510](#)

[Debug](#)

[Informazioni correlate](#)

## [Introduzione](#)

In questo documento viene spiegato come controllare l'accesso al server HTTP Cisco IOS® con autenticazione, autorizzazione e accounting (AAA). Il controllo dell'accesso al server HTTP Cisco IOS con AAA varia in base alla versione software Cisco IOS.

## [Prerequisiti](#)

### [Requisiti](#)

Nessun requisito specifico previsto per questo documento.

### [Componenti usati](#)

Il documento può essere consultato per tutte le versioni software o hardware.

### [Convenzioni](#)

Per ulteriori informazioni sulle convenzioni usate, consultare il documento [Cisco sulle convenzioni nei suggerimenti tecnici](#).

## [Determinare la versione del server HTTP disponibile](#)

Utilizzare il comando `exec show subsys name http` per verificare la versione del server HTTP in uso.

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

```
Class          Version
http           Protocol  1.001.001
```

Questo è un sistema con il server HTTP V1.1. Il software Cisco IOS versione 12.2(15)T e tutte le versioni 12.3 del software Cisco IOS dispongono di HTTP V1.1.

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

```
Class          Version
http           Protocol  1.000.001
```

Questo è un sistema con il server HTTP V1. Il software Cisco IOS versioni precedenti alla 12.2(15)T (include il software Cisco IOS versione 12.2(15)JA e 12.2(15)XR) ha protocollo HTTP V1.

## Software Cisco IOS con server HTTP V1

Nelle versioni del software Cisco IOS che contengono il server HTTP V1, le sessioni HTTP utilizzano linee terminali virtuali (vty). Pertanto, l'autenticazione e l'autorizzazione HTTP sono controllate con gli stessi metodi configurati per i vty.

```
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
```

## Software Cisco IOS con server HTTP V1.1

Nelle versioni del software Cisco IOS con il server HTTP V1.1, le sessioni HTTP non utilizzano vty. Loro usano delle prese.

## Server HTTP V1.1 - Prima dell'ID bug Cisco CSCeb82510

Prima di integrare l'ID bug Cisco [CSCeb82510](#) (solo utenti [registrati](#)) nel software Cisco IOS versione 12.3(7.3) e 12.3(7.3)T, il server HTTP V1.1 deve utilizzare lo stesso metodo di autenticazione e autorizzazione configurato per la console.

```
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
```

## Server HTTP V1.1 - Dopo l'ID bug Cisco CSCeb82510

Con l'integrazione dell'ID bug Cisco [CSCeb82510](#) (solo utenti [registrati](#)) nel software Cisco IOS versione 12.3(7.3) e 12.3(7.3)T, il server HTTP può utilizzare metodi di autenticazione e autorizzazione indipendenti, con nuove parole chiave nel comando **ip http authentication aaa**. Le nuove parole chiave sono:

```
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
```

Questo è l'output di esempio:

```
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
```

## Debug

Per risolvere i problemi di autenticazione/autorizzazione HTTP, usare i seguenti comandi **debug**:

```
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+.
```

Questo output mostra alcuni esempi di debug:

```
*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 'HTTPaauthen' *!---* Uses 'HTTPaauthen' 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 'HTTPaauthor' \*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.

## [Informazioni correlate](#)

- [TACACS+ \(Terminal Access Controller Access Control System\)](#)
- [RADIUS \(Remote Authentication Dial-In User Service\)](#)
- [RFC \(Requests for Comments\)](#)
- [Documentazione e supporto tecnico – Cisco Systems](#)