المشكلات الشائعة في تصحيح أخطاء CHAP و PAP و +TACACS

المحتويات

المقدمة

ملاحظة: تستند المعلومات الواردة في هذا المستند إلى الإصدار 11.2 من برنامج Cisco IOS® والإصدارات الأحدث.

يفحص هذا المستند مشاكل تصحيح الأخطاء الشائعة ل +TACACS عند إستخدام بروتوكول مصادقة كلمة المرور (PAP) أو بروتوكول المصادقة لتأكيد الاتصال بقيمة التحدي (CHAP). يتم توفير إعدادات الكمبيوتر الشائعة لأنظمة التشغيل Microsoft Windows 95 و Windows NT و Windows 98 و Windows 2000، بالإضافة إلى أمثلة للتكوينات وأمثلة عن تصحيح الأخطاء الجيدة والسيئة.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

لا يقتصر هذا المستند على إصدارات برامج ومكونات مادية معينة.

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

الاصطلاحات

راجع <u>اصطلاحات تلميحات Cisco التقنية للحصول على مزيد من المعلومات حول اصطلاحات المستندات.</u>

إعدادات الكمبيوتر الشائعة

Windows 95

أكمل الخطوات التالية:

1. في نافذة شبكة الاتصال، أختر اسم الاتصال، ثم **ملف > خصائص.**
2. على علامة التبويب "نوع الخادم"، راجع ما إذا كان مربع **طلب كلمة مرور مشفرة** أسفل نوع خادم الطلب الهاتفي محددا.في حالة تحديد هذا المربع، يقبل الكمبيوتر مصادقة CHAP فقط.في حالة عدم تحديد هذا المربع، يقبل الكمبيوتر مصادقة PAP أو CHAP.

ويندوز إن تي

أكمل الخطوات التالية:

1. في نافذة شبكة الطلب الهاتفي، أختر اسم الاتصال، ثم أختر **ملف > خصائص.**
2. تحقق من الإعدادات في علامة التبويب التأمين:في حالة تحديد مربع **قبول أي مصادقة بما في ذلك مسح النص**، يقبل الكمبيوتر PAP أو CHAP.في حالة تحديد مربع **قبول المصادقة المشفرة فقط**، يقبل الكمبيوتر مصادقة CHAP فقط.

Windows 98

أكمل الخطوات التالية:

1. في نافذة شبكة الطلب الهاتفي، أختر اسم الاتصال، ثم أختر **خصائص.**
2. في علامة التبويب "أنواع الخوادم"، تحقق من الإعدادات الموجودة في منطقة "الخيارات المتقدمة":إذا لم يتم تحديد مربع **طلب كلمة مرور مشفرة**، فإن الكمبيوتر يقبل مصادقة PAP أو CHAP.في حالة تحديد مربع **طلب كلمة مرور مشفرة**، يقبل الكمبيوتر مصادقة CHAP فقط.

نظام التشغيل Windows 2000

أكمل الخطوات التالية:

1. في إتصالات الشبكة والطلب الهاتفي، أختر اسم الاتصال، ثم أختر **خصائص.**
2. في علامة التبويب التأمين، في **المتقدم > إعدادات > السماح** بمنطقة **هذه البروتوكولات**:إن ال unencrypted كلمة **(PAP)** يكون حددت صندوق، ال pc يقبل PAP.في حالة تحديد مربع **بروتوكول المصادقة لتأكيد الاتصال بقيمة التحدي (CHAP)**، فإن الكمبيوتر يقبل بروتوكول CHAP لكل 1994 RFC .في حالة تحديد خانة **Microsoft CHAP (MS-CHAP)**، يقبل الكمبيوتر الإصدار 1 من MS-CHAP ولا يقبل CHAP لكل RFC 1994.

التكوينات وأمثلة تصحيح الأخطاء

التكوين - TACACS+ و PAP
Current configuration:
!
version 11.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers
!
hostname rtpkrb
!
aaa new-model
!
!--- The following four lines of the --- configuration *!--- are specific to !--- Cisco IOS 11.2 and later, until* *!--- 11.3.3.T. !--- See below this configuration !--- for* *!--- commands for other Cisco IOS releases. !* **aaa authentication login default tacacs+ local**
aaa authentication ppp default if-needed tacacs+ local
aaa authorization exec tacacs+ if-authenticated
aaa authorization network tacacs+ if-authenticated
enable secret 5 1pkX.$JdAySRE1SbdbDe7bj0wyt0
enable password ww
!
username john password 0 doe
username cse password 0 csecse
ip host rtpkrb 10.31.1.5
ip domain-name RTP.CISCO.COM
ip name-server 171.68.118.103
!
interface Loopback0
ip address 1.1.1.1 255.255.255.0
!
interface Ethernet0
ip address 10.31.1.5 255.255.0.0
no mop enabled
!
interface Serial0
no ip address
no ip mroute-cache
shutdown
!
interface Serial1
no ip address
shutdown
!
interface Async1
ip unnumbered Ethernet0
encapsulation ppp
async mode dedicated
peer default ip address pool async
no cdp enable
ppp authentication pap
!
ip local pool async 15.15.15.15
ip classless

```
ip route 0.0.0.0 0.0.0.0 10.31.1.1
!
tacacs-server host 171.68.118.101
tacacs-server key cisco
snmp-server community public RW
snmp-server host 171.68.118.100 traps public
!
line con 0
line 1
session-timeout 20
exec-timeout 20 0
password ww
autoselect during-login
autoselect ppp
modem InOut
transport input all
stopbits 1
speed 38400
flowcontrol hardware
line 2
modem InOut
speed 38400
flowcontrol hardware
line 3 16
line aux 0
line vty 0 4
password ww
!
end
```

أوامر لإصدارات Cisco IOS الأخرى

ملاحظة: لاستخدام هذه الأوامر، قم بإزالة الأوامر بخط غامق من التكوين والصق في هذه الأوامر في، كما هو موضح بواسطة إصدار Cisco IOS الخاص بك.

Cisco IOS 11.3.3.T حتى Cisco IOS 12.0.5.T

```
aaa authen login default tacacs+ local
aaa authen ppp default if-needed tacacs+ local
aaa authorization exec default tacacs+ if-authenticated
aaa authorization network default tacacs+ if-authenticated
```

Cisco IOS 12.0.5.T والإصدارات الأحدث

```
aaa authen login default group tacacs+ local
aaa authen ppp default if-needed group tacacs+ local
aaa authorization exec default group tacacs+ if-authenticated
aaa authorization network default group tacacs+ if-authenticated
```

تصحيح الأخطاء للعينة - TACACS+ و PAP

ملاحظة: في إخراج تصحيح الأخطاء، يبرز النص الغامق المشاكل في تصحيح الأخطاء. يشير النص العادي إلى تصحيح جيد.

```
rtpkrb#show debug
General OS:
TACACS access control debugging is on
```

```
                           AAA Authentication debugging is on
                             AAA Authorization debugging is on
                                                         :PPP
                                PPP authentication debugging is on
                           PPP protocol negotiation debugging is on
                                                      #rtpkrb
         3d22h: %LINK-3-UPDOWN: Interface Async1, changed state to up
                3d22h: As1 PPP: Treating connection as a dedicated line
                  3d22h: As1 PPP: Phase is ESTABLISHING, Active Open
                    3d22h: As1 LCP: O CONFREQ [Closed] id 14 len 24
                   (3d22h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                       (3d22h: As1 LCP: AuthProto PAP (0x0304C023
              (3d22h: As1 LCP: MagicNumber 0xF45FB7A7 (0x0506F45FB7A7
                                 (3d22h: As1 LCP: PFC (0x0702
                                 (3d22h: As1 LCP: ACFC (0x0802
```
PC insists on doing CHAP !--- ("accept encrypted authentication only"), !--- but router is ---!
set up for PAP. **As1 LCP: I CONFNAK [REQsent] id 27 len 12**
(As1 LCP: AuthProto 0xC123 (0x0308C12301000001
As1 PPP: Closing connection because remote won't authenticate

```
             3d22h: As1 LCP: Interface transitioned, discarding packet
                    3d22h: As1 LCP: I CONFACK [REQsent] id 14 len 24
                   (3d22h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                       (3d22h: As1 LCP: AuthProto PAP (0x0304C023
              (3d22h: As1 LCP: MagicNumber 0xF45FB7A7 (0x0506F45FB7A7
                                 (3d22h: As1 LCP: PFC (0x0702
                                 (3d22h: As1 LCP: ACFC (0x0802
            3d22h: As1 LCP: TIMEout: Time 0x14417CC4 State ACKrcvd
                    3d22h: As1 LCP: O CONFREQ [ACKrcvd] id 15 len 24
                   (3d22h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                       (3d22h: As1 LCP: AuthProto PAP (0x0304C023
              (3d22h: As1 LCP: MagicNumber 0xF45FB7A7 (0x0506F45FB7A7
                                 (3d22h: As1 LCP: PFC (0x0702
                                 (3d22h: As1 LCP: ACFC (0x0802
                    3d22h: As1 LCP: I CONFACK [REQsent] id 15 len 24
                   (3d22h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                       (3d22h: As1 LCP: AuthProto PAP (0x0304C023
              (3d22h: As1 LCP: MagicNumber 0xF45FB7A7 (0x0506F45FB7A7
                                 (3d22h: As1 LCP: PFC (0x0702
                                 (3d22h: As1 LCP: ACFC (0x0802
                    3d22h: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 20
                   (3d22h: As1 LCP: ACCM 0x00000000 (0x020600000000
              (3d22h: As1 LCP: MagicNumber 0x000030A3 (0x0506000030A3
                                 (3d22h: As1 LCP: PFC (0x0702
                                 (3d22h: As1 LCP: ACFC (0x0802
                    3d22h: As1 LCP: O CONFACK [ACKrcvd] id 0 len 20
                   (3d22h: As1 LCP: ACCM 0x00000000 (0x020600000000
              (3d22h: As1 LCP: MagicNumber 0x000030A3 (0x0506000030A3
                                 (3d22h: As1 LCP: PFC (0x0702
                                 (3d22h: As1 LCP: ACFC (0x0802
                                 3d22h: As1 LCP: State is Open
                3d22h: As1 PPP: Phase is AUTHENTICATING, by this end
             "3d22h: As1 PAP: I AUTH-REQ id 4 len 20 from "papuser
                      3d22h: As1 PAP: Authenticating peer papuser
             '3d22h: AAA/AUTHEN: create_user (0x16DAC0) user='papuser
             ruser='' port='Async1' rem_addr='async' authen_type=PAP
                                          service=PPP priv=1
             ''=3d22h: AAA/AUTHEN/START (1190231344): port='Async1' list
                                    action=LOGIN service=PPP
             3d22h: AAA/AUTHEN/START (1190231344): using "default" list
                    3d22h: AAA/AUTHEN (1190231344): status = UNKNOWN
                 +3d22h: AAA/AUTHEN/START (1190231344): Method=TACACS
             3d22h: TAC+: send AUTHEN/START packet ver=193 id=1190231344
                  .3d22h: TAC+: Using default tacacs server list
```

```
                       3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5


   The TAC+ server is down, producing an error. !--- Since the user is not in the local ---!
-- database, !--- the failover to local fails. TAC+: TCP/IP open to 171.68.118.101/49 failed
                                                   Connection refused by remote host
                                              AAA/AUTHEN (866823886): status = ERROR
                                         AAA/AUTHEN/START (866823886): Method=LOCAL
                                              AAA/AUTHEN (866823886): status = FAIL


              3d22h: TAC+: Opened TCP/IP handle 0x16C1F8 to 171.68.118.101/49
       3d22h: TAC+: 171.68.118.101 (1190231344) AUTHEN/START/LOGIN/PAP queued
                 3d22h: TAC+: (1190231344) AUTHEN/START/LOGIN/PAP processed


  The key in the router does not match that of the server. TAC+: received bad AUTHEN packet: ---!
                                                    length = 68, expected 67857
                                     (TAC+: Invalid AUTHEN/START packet (check keys
                                          AAA/AUTHEN (1771887965): status = ERROR


          3d22h: TAC+: ver=192 id=1190231344 received AUTHEN status = GETPASS
       3d22h: TAC+: Closing TCP/IP 0x16C1F8 connection to 171.68.118.101/49
                  3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
          3d22h: TAC+: Opened TCP/IP handle 0x16EF4C to 171.68.118.101/49
                           3d22h: TAC+: Opened 171.68.118.101 index=1
          ''=3d22h: AAA/AUTHEN: create_user (0x16C5EC) user='papuser' ruser
            port='Async1' rem_addr='async' authen_type=PAP service=PPP priv=1
   3d22h: TAC+: rev0 inbound pap login for id=1190231344 using id=3112896669
       3d22h: TAC+: 171.68.118.101 (3112896669) AUTHEN/START/LOGIN/PAP queued
                 3d22h: TAC+: (3112896669) AUTHEN/START/LOGIN/PAP processed
          3d22h: TAC+: ver=192 id=3112896669 received AUTHEN status = GETPASS
                                       3d22h: TAC+: send AUTHEN/CONT packet
             3d22h: TAC+: 171.68.118.101 (3112896669) AUTHEN/CONT queued
                        3d22h: TAC+: (3112896669) AUTHEN/CONT processed


   The NT client sends the "DOMAIN\user" !--- and the TAC+ server expects "user". TAC+: ---!
                               ver=192 id=260507389 received AUTHEN status = FAIL
                     TAC+: rev0 inbound pap completed for 1139034411 status=FAIL
                  ''=AAA/AUTHEN: free_user (0x16CDD4) user='CISCO\papuser' ruser
                  port='Async1' rem_addr='async' authen_type=PAP service=PPP priv=1


   The TAC+ server refuses the user !--- because the user is set up for PAP. !--- The user ---!
       enters a bad password, !--- or both the username and password are bad. TAC+: ver=192
                                     id=691012958 received AUTHEN status = FAIL
                     TAC+: rev0 inbound pap completed for 3917384959 status=FAIL
                        ''=AAA/AUTHEN: free_user (0x15AD58) user='idochap' ruser
                  port='Async1' rem_addr='async' authen_type=PAP service=PPP priv=1


          3d22h: TAC+: ver=192 id=3112896669 received AUTHEN status = PASS
          3d22h: TAC+: rev0 inbound pap completed for 1190231344 status=PASS
             ''=3d22h: AAA/AUTHEN: free_user (0x16C5EC) user='papuser' ruser
            port='Async1' rem_addr='async' authen_type=PAP service=PPP priv=1
       3d22h: TAC+: Closing TCP/IP 0x16EF4C connection to 171.68.118.101/49
                           3d22h: AAA/AUTHEN (1190231344): status = PASS
                           3d22h: AAA/AUTHOR/LCP As1: Authorize LCP
                '3d22h: AAA/AUTHOR/LCP: Async1: (1061976769): user='papuser
           3d22h: AAA/AUTHOR/LCP: Async1: (1061976769): send AV service=ppp
           3d22h: AAA/AUTHOR/LCP: Async1: (1061976769): send AV protocol=lcp
           +3d22h: AAA/AUTHOR/LCP: Async1: (1061976769): Method=TACACS
                    3d22h: AAA/AUTHOR/TAC+: (1061976769): user=papuser
              3d22h: AAA/AUTHOR/TAC+: (1061976769): send AV service=ppp
              3d22h: AAA/AUTHOR/TAC+: (1061976769): send AV protocol=lcp
             3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
             3d22h: TAC+: Opened TCP/IP handle 0x16C9E0 to 171.68.118.101/49
                           3d22h: TAC+: Opened 171.68.118.101 index=1
          3d22h: TAC+: 171.68.118.101 (1061976769) AUTHOR/START queued
```

```
                        3d22h: TAC+: (1061976769) AUTHOR/START processed
```

The user passes authentication !--- (the username/password is good) !--- but fails ---! authorization !--- (the profile is not set up to authorize PPP). **TAC+: (1793875816): received author response status = FAIL**
TAC+: Closing TCP/IP 0x17054C connection to 171.68.118.101/49
AAA/AUTHOR (1793875816): Post authorization status = FAIL
AAA/AUTHOR/LCP As1: Denied

```
         3d22h: TAC+: (1061976769): received author response status = PASS_ADD
          3d22h: TAC+: Closing TCP/IP 0x16C9E0 connection to 171.68.118.101/49
          3d22h: AAA/AUTHOR (1061976769): Post authorization status = PASS_ADD
                                    3d22h: As1 PAP: O AUTH-ACK id 4 len 5
                                       3d22h: As1 PPP: Phase is UP
                    ?3d22h: AAA/AUTHOR/FSM As1: (0): Can we start IPCP
                 '3d22h: AAA/AUTHOR/FSM: Async1: (3602788894): user='papuser
           3d22h: AAA/AUTHOR/FSM: Async1: (3602788894): send AV service=ppp
           3d22h: AAA/AUTHOR/FSM: Async1: (3602788894): send AV protocol=ip
             +3d22h: AAA/AUTHOR/FSM: Async1: (3602788894): Method=TACACS
                 3d22h: AAA/AUTHOR/TAC+: (3602788894): user=papuser
                3d22h: AAA/AUTHOR/TAC+: (3602788894): send AV service=ppp
                3d22h: AAA/AUTHOR/TAC+: (3602788894): send AV protocol=ip
                3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
           ,3d22h: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1
                                          changed state to up
          3d22h: TAC+: Opened TCP/IP handle 0x17054C to 171.68.118.101/49
                         3d22h: TAC+: Opened 171.68.118.101 index=1
           3d22h: TAC+: 171.68.118.101 (3602788894) AUTHOR/START queued
                         3d22h: As1 IPCP: I CONFREQ [Closed] id 1 len 34
                    (3d22h: As1 IPCP: Address 0.0.0.0 (0x030600000000
                  (3d22h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
                  (3d22h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
                  (3d22h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
                  (3d22h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
                         3d22h: TAC+: (3602788894) AUTHOR/START processed
          3d22h: TAC+: (3602788894): received author response status = PASS_ADD
           3d22h: TAC+: Closing TCP/IP 0x17054C connection to 171.68.118.101/49
           3d22h: AAA/AUTHOR (3602788894): Post authorization status = PASS_ADD
                              3d22h: AAA/AUTHOR/FSM As1: We can start IPCP
                            3d22h: As1 IPCP: O CONFREQ [Closed] id 10 len 10
                      (3d22h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105
                         3d22h: As1 IPCP: I CONFACK [REQsent] id 10 len 10
                      (3d22h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105
                         3d22h: As1 IPCP: I CONFREQ [ACKrcvd] id 1 len 34
                    (3d22h: As1 IPCP: Address 0.0.0.0 (0x030600000000
                  (3d22h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
                  (3d22h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
                  (3d22h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
                  (3d22h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
                  ,3d22h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0
                                          we want 0.0.0.0
                  3d22h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
                  3d22h: AAA/AUTHOR/IPCP As1: Processing AV protocol=ip
                   3d22h: AAA/AUTHOR/IPCP As1: Authorization succeeded
                  ,3d22h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0
                                          we want 0.0.0.0
                                 '3d22h: As1 IPCP: Using pool 'async
                            3d22h: As1 IPCP: Pool returned 15.15.15.15
                         3d22h: As1 IPCP: O CONFREJ [ACKrcvd] id 1 len 22
                  (3d22h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
                  (3d22h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
                  (3d22h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
                         3d22h: As1 IPCP: I CONFREQ [ACKrcvd] id 2 len 16
                    (3d22h: As1 IPCP: Address 0.0.0.0 (0x030600000000
```

```
(3d22h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
,3d22h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0
we want 15.15.15.15
3d22h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
3d22h: AAA/AUTHOR/IPCP As1: Processing AV protocol=ip
3d22h: AAA/AUTHOR/IPCP As1: Authorization succeeded
,3d22h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0
we want 15.15.15.15
3d22h: As1 IPCP: O CONFNAK [ACKrcvd] id 2 len 16
(3d22h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(3d22h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
3d22h: As1 IPCP: I CONFREQ [ACKrcvd] id 3 len 16
(3d22h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(3d22h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
,3d22h: AAA/AUTHOR/IPCP As1: Start. Her address 15.15.15.15
we want 15.15.15.15
'3d22h: AAA/AUTHOR/IPCP: Async1: (3654974050): user='papuser
3d22h: AAA/AUTHOR/IPCP: Async1: (3654974050): send AV service=ppp
3d22h: AAA/AUTHOR/IPCP: Async1: (3654974050): send AV protocol=ip
3d22h: AAA/AUTHOR/IPCP: Async1: (3654974050): send AV addr*15.15.15.15
+3d22h: AAA/AUTHOR/IPCP: Async1: (3654974050): Method=TACACS
3d22h: AAA/AUTHOR/TAC+: (3654974050): user=papuser
3d22h: AAA/AUTHOR/TAC+: (3654974050): send AV service=ppp
3d22h: AAA/AUTHOR/TAC+: (3654974050): send AV protocol=ip
3d22h: AAA/AUTHOR/TAC+: (3654974050): send AV addr*15.15.15.15
3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
3d22h: TAC+: Opened TCP/IP handle 0x16EF4C to 171.68.118.101/49
3d22h: TAC+: Opened 171.68.118.101 index=1
3d22h: TAC+: 171.68.118.101 (3654974050) AUTHOR/START queued
3d22h: TAC+: (3654974050) AUTHOR/START processed
3d22h: TAC+: (3654974050): received author response status = PASS_ADD
3d22h: TAC+: Closing TCP/IP 0x16EF4C connection to 171.68.118.101/49
3d22h: AAA/AUTHOR (3654974050): Post authorization status = PASS_ADD
3d22h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
3d22h: AAA/AUTHOR/IPCP As1: Processing AV protocol=ip
3d22h: AAA/AUTHOR/IPCP As1: Processing AV addr*15.15.15.15
3d22h: AAA/AUTHOR/IPCP As1: Authorization succeeded
,3d22h: AAA/AUTHOR/IPCP As1: Done. Her address 15.15.15.15
we want 15.15.15.15
3d22h: As1 IPCP: O CONFACK [ACKrcvd] id 3 len 16
(3d22h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(3d22h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
3d22h: As1 IPCP: State is Open
3d22h: As1 IPCP: Install route to 15.15.15.15
#rtpkrb
```

التكوين - TACACS+ و CHAP

```
Current configuration:
!
version 11.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers
!
hostname rtpkrb
!
aaa new-model
!
!--- The following four lines of the configuration
!--- are specific to Cisco IOS 11.2 and later, until
!--- 11.3.3.T. !--- See below this configuration !--- for
```

```
                                     commands for other Cisco IOS releases. ! aaa
                                authentication login default tacacs+ local
aaa authentication ppp default if-needed tacacs+ local
                aaa authorization exec tacacs+ if-authenticated
             aaa authorization network tacacs+ if-authenticated
                    enable secret 5 $1$pkX.$JdAySRE1SbdbDe7bj0wyt0
                                             enable password ww
                                                              !
                                     username john password 0 doe
                                   username cse password 0 csecse
                                         ip host rtpkrb 10.31.1.5
                                   ip name-server 171.68.118.103
                                                              !
                                           interface Loopback0
                                 ip address 1.1.1.1 255.255.255.0
                                                              !
                                           interface Ethernet0
                                ip address 10.31.1.5 255.255.0.0
                                                no mop enabled
                                                              !
                                             interface Serial0
                                                 no ip address
                                           no ip mroute-cache
                                                       shutdown
                                                              !
                                             interface Serial1
                                                 no ip address
                                                       shutdown
                                                              !
                                             interface Async1
                                     ip unnumbered Ethernet0
                                             encapsulation ppp
                                           async mode dedicated
                               peer default ip address pool async
                                                 no cdp enable
                                         ppp authentication chap
                                                              !
                                 ip local pool async 15.15.15.15
                                                   ip classless
                               ip route 0.0.0.0 0.0.0.0 10.31.1.1
                                                              !
                                 tacacs-server host 171.68.118.101
                                         tacacs-server key cisco
                                   snmp-server community public RW
                          snmp-server host 171.68.118.100 traps public
                                                              !
                                                     line con 0
                                                         line 1
                                             session-timeout 20
                                               exec-timeout 20 0
                                                   password ww
                                         autoselect during-login
                                               autoselect ppp
                                                   modem InOut
                                           transport input all
                                                   stopbits 1
                                                   speed 38400
                                           flowcontrol hardware
                                                         line 2
                                                   modem InOut
                                                   speed 38400
                                           flowcontrol hardware
                                                     line 3 16
                                                   line aux 0
```

```
line vty 0 4
password ww
!
end
```

أوامر لإصدارات Cisco IOS الأخرى

ملاحظة: لاستخدام هذه الأوامر، قم بإزالة الأوامر بخط غامق من التكوين والصق هذه الأوامر في، كما هو موضح من إصدار IOS Cisco الخاص بك.

Cisco IOS 11.3.3.T حتى 12.0.5.T

```
aaa authen login default tacacs+ local
aaa authen ppp default if-needed tacacs+ local
aaa authorization exec default tacacs+ if-authenticated
aaa authorization network default tacacs+ if-authenticated
```

Cisco IOS 12.0.5.T والإصدارات الأحدث

```
aaa authen login default group tacacs+ local
aaa authen ppp default if-needed group tacacs+ local
aaa authorization exec default group tacacs+ if-authenticated
aaa authorization network default group tacacs+ if-authenticated
```

تصحيح الأخطاء للعينة - TACACS+ و CHAP

ملاحظة: في إخراج تصحيح الأخطاء، يبرز النص الغامق المشاكل في تصحيح الأخطاء. يشير النص العادي إلى تصحيح جيد.

```
General OS:
TACACS access control debugging is on
AAA Authentication debugging is on
AAA Authorization debugging is on
PPP:
PPP authentication debugging is on
PPP protocol negotiation debugging is on
rtpkrb#
3d22h: As1 LCP: I CONFREQ [Closed] id 0 len 20
3d22h: As1 LCP:    ACCM 0x00000000 (0x020600000000)
3d22h: As1 LCP:    MagicNumber 0x000042C5 (0x0506000042C5)
3d22h: As1 LCP:    PFC (0x0702)
3d22h: As1 LCP:    ACFC (0x0802)
3d22h: As1 LCP: Lower layer not up, discarding packet
3d22h: %LINK-3-UPDOWN: Interface Async1, changed state to up
3d22h: As1 PPP: Treating connection as a dedicated line
3d22h: As1 PPP: Phase is ESTABLISHING, Active Open
3d22h: As1 LCP: O CONFREQ [Closed] id 12 len 25
3d22h: As1 LCP:    ACCM 0x000A0000 (0x0206000A0000)
3d22h: As1 LCP:    AuthProto CHAP (0x0305C22305)
3d22h: As1 LCP:    MagicNumber 0xF45D776F (0x0506F45D776F)
3d22h: As1 LCP:    PFC (0x0702)
3d22h: As1 LCP:    ACFC (0x0802)
3d22h: As1 LCP: I CONFACK [REQsent] id 12 len 25
3d22h: As1 LCP:    ACCM 0x000A0000 (0x0206000A0000)
3d22h: As1 LCP:    AuthProto CHAP (0x0305C22305)
3d22h: As1 LCP:    MagicNumber 0xF45D776F (0x0506F45D776F)
3d22h: As1 LCP:    PFC (0x0702)
```

```
                                   (3d22h: As1 LCP: ACFC (0x0802
                   3d22h: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 20
                   (3d22h: As1 LCP: ACCM 0x00000000 (0x020600000000
           (3d22h: As1 LCP: MagicNumber 0x000042C5 (0x0506000042C5
                                    (3d22h: As1 LCP: PFC (0x0702
                                   (3d22h: As1 LCP: ACFC (0x0802
                   3d22h: As1 LCP: O CONFACK [ACKrcvd] id 0 len 20
                   (3d22h: As1 LCP: ACCM 0x00000000 (0x020600000000
           (3d22h: As1 LCP: MagicNumber 0x000042C5 (0x0506000042C5
                                    (3d22h: As1 LCP: PFC (0x0702
                                   (3d22h: As1 LCP: ACFC (0x0802
                                  3d22h: As1 LCP: State is Open
                3d22h: As1 PPP: Phase is AUTHENTICATING, by this end
           "3d22h: As1 CHAP: O CHALLENGE id 3 len 27 from "rtpkrb
           "3d22h: As1 CHAP: I RESPONSE id 3 len 29 from "chapuser
          '3d22h: AAA/AUTHEN: create_user (0x15B394) user='chapuser
          ruser='' port='Async1' rem_addr='async' authen_type=CHAP
                                               service=PPP priv=1
        ''=3d22h: AAA/AUTHEN/START (2183639772): port='Async1' list
                                       action=LOGIN service=PPP
         3d22h: AAA/AUTHEN/START (2183639772): using "default" list
                     3d22h: AAA/AUTHEN (2183639772): status = UNKNOWN
              +3d22h: AAA/AUTHEN/START (2183639772): Method=TACACS
         3d22h: TAC+: send AUTHEN/START packet ver=193 id=2183639772
                    .3d22h: TAC+: Using default tacacs server list
         3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
```

The TAC+ server is down, producing an error. !--- Since the user is not in the local ---!
-- database, !--- the failover to local fails. **TAC+: TCP/IP open to 171.68.118.101/49 failed**
                                               Connection refused by remote host
                                      AAA/AUTHEN (2546660185): status = ERROR
                              AAA/AUTHEN/START (2546660185): Method=LOCAL
                                      AAA/AUTHEN (2546660185): status = FAIL
         As1 CHAP: Unable to validate Response. Username chapuser: Authentication failure

```
            3d22h: TAC+: Opened TCP/IP handle 0x17054C to 171.68.118.101/49
      3d22h: TAC+: 171.68.118.101 (2183639772) AUTHEN/START/LOGIN/CHAP queued
              3d22h: TAC+: (2183639772) AUTHEN/START/LOGIN/CHAP processed
```

The key in the router does not match that of the server. **TAC+: received bad AUTHEN packet:** *---!*
                                               length = 68, expected 67857
                                    (TAC+: Invalid AUTHEN/START packet (check keys
                                      AAA/AUTHEN (1771887965): status = ERROR

```
           3d22h: TAC+: ver=192 id=2183639772 received AUTHEN status = GETPASS
         3d22h: TAC+: Closing TCP/IP 0x17054C connection to 171.68.118.101/49
              3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
            3d22h: TAC+: Opened TCP/IP handle 0x16EF4C to 171.68.118.101/49
                         3d22h: TAC+: Opened 171.68.118.101 index=1
        ''=3d22h: AAA/AUTHEN: create_user (0x170940) user='chapuser' ruser
         port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1
         3d22h: TAC+: rev0 inbound chap for id=2183639772 using id=166703029
      3d22h: TAC+: 171.68.118.101 (166703029) AUTHEN/START/SENDPASS/CHAP queued
              3d22h: TAC+: (166703029) AUTHEN/START/SENDPASS/CHAP processed
```

The NT client sends the "DOMAIN\user" !--- and the TAC+ server expects "user". **TAC+:** *---!*
                                  ver=192 id=3373385106 received AUTHEN status = FAIL
                                      TAC+: rev0 inbound chap FAIL for id=2082151566
                        ''=AAA/AUTHEN: free_user (0x170940) user='CISCO\chapuser' ruser
                 port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1

The TAC+ server refuses the user !--- because the user is set up for PAP. !--- The user ---!
enters a bad password, !--- or both the username and password are bad. **TAC+: ver=192**
                                      id=1989464562 received AUTHEN status = PASS

```
TAC+: rev0 inbound chap SENDPASS status=PASS for id=3657266965
                   TAC+: rev0 inbound chap MD5 compare FAILED
''=AAA/AUTHEN: free_user (0x170940) user='chapuser' ruser
port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1
      TAC+: Closing TCP/IP 0x16EF4C connection to 171.68.118.101/49
                        AAA/AUTHEN (2082151566): status = FAIL
As1 CHAP: Unable to validate Response. Username papuser: Authentication failure

    3d22h: TAC+: ver=192 id=166703029 received AUTHEN status = PASS
  3d22h: TAC+: rev0 inbound chap SENDPASS status=PASS for id=2183639772
                 3d22h: TAC+: rev0 inbound chap MD5 compare OK
''=3d22h: AAA/AUTHEN: free_user (0x170940) user='chapuser' ruser
port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1
  3d22h: TAC+: Closing TCP/IP 0x16EF4C connection to 171.68.118.101/49
                     3d22h: AAA/AUTHEN (2183639772): status = PASS
                     3d22h: AAA/AUTHOR/LCP As1: Authorize LCP
        '3d22h: AAA/AUTHOR/LCP: Async1: (683360936): user='chapuser
    3d22h: AAA/AUTHOR/LCP: Async1: (683360936): send AV service=ppp
    3d22h: AAA/AUTHOR/LCP: Async1: (683360936): send AV protocol=lcp
      +3d22h: AAA/AUTHOR/LCP: Async1: (683360936): Method=TACACS
             3d22h: AAA/AUTHOR/TAC+: (683360936): user=chapuser
       3d22h: AAA/AUTHOR/TAC+: (683360936): send AV service=ppp
       3d22h: AAA/AUTHOR/TAC+: (683360936): send AV protocol=lcp
    3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
    3d22h: TAC+: Opened TCP/IP handle 0x16C1F8 to 171.68.118.101/49
                     3d22h: TAC+: Opened 171.68.118.101 index=1
     3d22h: TAC+: 171.68.118.101 (683360936) AUTHOR/START queued
               3d22h: TAC+: (683360936) AUTHOR/START processed
```

The user passes authentication !--- (the username/password is good) !--- but fails ---!
authorization !--- (the profile is not set up to authorize PPP). **TAC+: (3803447096): received**
```
                        author response status = FAIL
      TAC+: Closing TCP/IP 0x16C2A4 connection to 171.68.118.101/49
           AAA/AUTHOR (3803447096): Post authorization status = FAIL
                              AAA/AUTHOR/LCP As1: Denied
'AAA/AUTHEN: free_user (0x15B2E8) user='noauth' ruser='' port='Async1
           rem_addr='async' authen_type=CHAP service=PPP priv=1
  "As1 CHAP: O FAILURE id 9 len 24 msg is "Authorization failed

    3d22h: TAC+: (683360936): received author response status = PASS_ADD
    3d22h: TAC+: Closing TCP/IP 0x16C1F8 connection to 171.68.118.101/49
    3d22h: AAA/AUTHOR (683360936): Post authorization status = PASS_ADD
                          3d22h: As1 CHAP: O SUCCESS id 3 len 4
                               3d22h: As1 PPP: Phase is UP
                   ?3d22h: AAA/AUTHOR/FSM As1: (0): Can we start IPCP
        '3d22h: AAA/AUTHOR/FSM: Async1: (977509495): user='chapuser
    3d22h: AAA/AUTHOR/FSM: Async1: (977509495): send AV service=ppp
    3d22h: AAA/AUTHOR/FSM: Async1: (977509495): send AV protocol=ip
      +3d22h: AAA/AUTHOR/FSM: Async1: (977509495): Method=TACACS
             3d22h: AAA/AUTHOR/TAC+: (977509495): user=chapuser
       3d22h: AAA/AUTHOR/TAC+: (977509495): send AV service=ppp
       3d22h: AAA/AUTHOR/TAC+: (977509495): send AV protocol=ip
    3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
    3d22h: TAC+: Opened TCP/IP handle 0x16EF4C to 171.68.118.101/49
                     3d22h: TAC+: Opened 171.68.118.101 index=1
     3d22h: TAC+: 171.68.118.101 (977509495) AUTHOR/START queued
                 3d22h: As1 IPCP: I CONFREQ [Closed] id 1 len 34
                 (3d22h: As1 IPCP: Address 0.0.0.0 (0x030600000000
               (3d22h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
               (3d22h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
               (3d22h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
               (3d22h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
                 3d22h: TAC+: (977509495) AUTHOR/START processed
    3d22h: TAC+: (977509495): received author response status = PASS_ADD
```

```
3d22h: TAC+: Closing TCP/IP 0x16EF4C connection to 171.68.118.101/49
3d22h: AAA/AUTHOR (977509495): Post authorization status = PASS_ADD
3d22h: AAA/AUTHOR/FSM As1: We can start IPCP
3d22h: As1 IPCP: O CONFREQ [Closed] id 8 len 10
(3d22h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105
3d22h: As1 IPCP: I CONFACK [REQsent] id 8 len 10
(3d22h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105
,3d22h: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1
changed state to up
3d22h: As1 IPCP: I CONFREQ [ACKrcvd] id 1 len 34
(3d22h: As1 IPCP: Address 0.0.0.0 (0x030600000000
(3d22h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
(3d22h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
(3d22h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
(3d22h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
,3d22h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0
we want 0.0.0.0
3d22h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
3d22h: AAA/AUTHOR/IPCP As1: Processing AV protocol=ip
3d22h: AAA/AUTHOR/IPCP As1: Authorization succeeded
,3d22h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0
we want 0.0.0.0
'3d22h: As1 IPCP: Using pool 'async
3d22h: As1 IPCP: Pool returned 15.15.15.15
3d22h: As1 IPCP: O CONFREJ [ACKrcvd] id 1 len 22
(3d22h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
(3d22h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
(3d22h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
3d22h: As1 IPCP: I CONFREQ [ACKrcvd] id 2 len 16
(3d22h: As1 IPCP: Address 0.0.0.0 (0x030600000000
(3d22h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
,3d22h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0
we want 15.15.15.15
3d22h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
3d22h: AAA/AUTHOR/IPCP As1: Processing AV protocol=ip
3d22h: AAA/AUTHOR/IPCP As1: Authorization succeeded
,3d22h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0
we want 15.15.15.15
3d22h: As1 IPCP: O CONFNAK [ACKrcvd] id 2 len 16
(3d22h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(3d22h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
3d22h: As1 IPCP: I CONFREQ [ACKrcvd] id 3 len 16
(3d22h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(3d22h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
,3d22h: AAA/AUTHOR/IPCP As1: Start. Her address 15.15.15.15
we want 15.15.15.15
'3d22h: AAA/AUTHOR/IPCP: Async1: (3918374858): user='chapuser
3d22h: AAA/AUTHOR/IPCP: Async1: (3918374858): send AV service=ppp
3d22h: AAA/AUTHOR/IPCP: Async1: (3918374858): send AV protocol=ip
3d22h: AAA/AUTHOR/IPCP: Async1: (3918374858): send AV addr*15.15.15.15
+3d22h: AAA/AUTHOR/IPCP: Async1: (3918374858): Method=TACACS
3d22h: AAA/AUTHOR/TAC+: (3918374858): user=chapuser
3d22h: AAA/AUTHOR/TAC+: (3918374858): send AV service=ppp
3d22h: AAA/AUTHOR/TAC+: (3918374858): send AV protocol=ip
3d22h: AAA/AUTHOR/TAC+: (3918374858): send AV addr*15.15.15.15
3d22h: TAC+: Opening TCP/IP to 171.68.118.101/49 timeout=5
3d22h: TAC+: Opened TCP/IP handle 0x16C9E0 to 171.68.118.101/49
3d22h: TAC+: Opened 171.68.118.101 index=1
3d22h: TAC+: 171.68.118.101 (3918374858) AUTHOR/START queued
3d22h: TAC+: (3918374858) AUTHOR/START processed
3d22h: TAC+: (3918374858): received author response status = PASS_ADD
3d22h: TAC+: Closing TCP/IP 0x16C9E0 connection to 171.68.118.101/49
3d22h: AAA/AUTHOR (3918374858): Post authorization status = PASS_ADD
3d22h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
```

```
        3d22h: AAA/AUTHOR/IPCP As1: Processing AV protocol=ip
    3d22h: AAA/AUTHOR/IPCP As1: Processing AV addr*15.15.15.15
         3d22h: AAA/AUTHOR/IPCP As1: Authorization succeeded
  ,3d22h: AAA/AUTHOR/IPCP As1: Done. Her address 15.15.15.15
                               we want 15.15.15.15
         3d22h: As1 IPCP: O CONFACK [ACKrcvd] id 3 len 16
         (3d22h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
    (3d22h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
                          3d22h: As1 IPCP: State is Open
            3d22h: As1 IPCP: Install route to 15.15.15.15
                                                   #rtpkrb
```

أوامر debug

تم إستخدام أوامر تصحيح الأخطاء هذه لإنتاج إخراج تصحيح الأخطاء للعينة في هذا المستند.

ملاحظة: قبل إصدار أوامر تصحيح الأخطاء، راجع المعلومات المهمة في أوامر تصحيح الأخطاء.

- debug aaa authentication—يعرض معلومات حول مصادقة AAA.
- تصحيح الأخطاء بتخويل المصادقة والتفويض والمحاسبة (AAA)—يعرض معلومات حول تفويض المصادقة والتفويض والمحاسبة (AAA).
- debug tacacs+—يعرض معلومات تصحيح الأخطاء التفصيلية المرتبطة ب TACACS+.
- debug ppp negotiation—يعرض حزم PPP المرسلة أثناء بدء تشغيل PPP، حيث يتم التفاوض حول خيارات PPP.

معلومات ذات صلة

- TACACS+ في وثائق IOS
- صفحة دعم TACACS+
- الدعم التقني والمستندات - Cisco Systems

حول هذه الترجمة

ترجمت Cisco هذا المستند باستخدام مجموعة من التقنيات الآلية
والبشرية لتقديم دعم للمستخدمين في جميع أنحاء العالم
بلغتهم الخاصة. يُرجى ملاحظة أن أفضل ترجمة آلية لن تكون دقيقة كما
هو الحال مع الترجمة الاحترافية التي يقدمها مترجم محترف. تخلي Cisco
Systems مسؤوليتها عن دقة هذه الترجمات وتوصي بالرجوع دائمًا إلى
المستند الإنجليزي الأصلي (الرابط متوفر).