مشكلات شائعة في تصحيح أخطاء RADIUS و CHAP و PAP

المحتويات

المقدمة

يفحص هذا المستند مشاكل تصحيح الأخطاء الشائعة لـ RADIUS 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 2000 Windows، بالإضافة إلى أمثلة للتكوينات وأمثلة عن تصحيح الأخطاء الجيدة والسيئة.

قبل البدء

الاصطلاحات

للحصول على مزيد من المعلومات حول اصطلاحات المستندات، راجع اصطلاحات تلميحات Cisco التقنية.

المتطلبات الأساسية

لا توجد متطلبات أساسية خاصة لهذا المستند.

المكونات المستخدمة

تستند المعلومات الواردة في هذا المستند إلى برنامج Cisco IOS® Software، الإصدار 11.2 والإصدارات الأحدث.

تم إنشاء المعلومات المُقدمة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كنت تعمل في شبكة مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر قبل استخدامه.

الإعداد الشائع للكمبيوتر

Windows 95

اتبع التعليمات المتوفرة أدناه:

1. في نافذة شبكة الاتصال، حدد 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.إذا تم تحديد هذا المربع، فهذا يعني أن الكمبيوتر يقبل مصادقة CHAP فقط.إذا لم يتم تحديد هذا المربع، فهذا يعني أن الكمبيوتر يقبل مصادقة PAP أو CHAP.

ويندوز إن تي

اتبع التعليمات المتوفرة أدناه:

1. في نافذة شبكة الطلب الهاتفي، حدد اسم الاتصال، ثم حدد **ملف > خصائص.**
2. تحقق من الإعدادات في علامة التبويب التأمين:إذا تم تحديد خانة **قبول أي مصادقة بما في ذلك مربع نص واضح**، فهذا يعني أن الكمبيوتر يقبل PAP أو CHAP.في حالة تحديد مربع **قبول المصادقة المشفرة فقط**، يقبل الكمبيوتر مصادقة CHAP فقط.

Windows 98

اتبع التعليمات المتوفرة أدناه:

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

نظام التشغيل Windows 2000

اتبع التعليمات المتوفرة أدناه:

1. في إتصالات الشبكة والطلب الهاتفي، حدد اسم الاتصال، ثم حدد **خصائص.**
2. في علامة التبويب التأمين، تحقق من الإعدادات في **المتقدم > إعدادات > السماح بمنطقة البروتوكولات** التالية:إن ال unencrypted **كلمة (PAP)** يكون حددت صندوق، ال pc يقبل PAP.في حالة تحديد المربع Challenge Handshake Authentication Protocol (CHAP)، يقبل الكمبيوتر بروتوكول CHAP لكل [RFC 1994](#).في حالة تحديد خانة **Microsoft CHAP (MS-CHAP)**، يقبل الكمبيوتر الإصدار 1 من MS-CHAP ولا يقبل CHAP لكل RFC 1994.

RADIUS و PAP

التكوين - RADIUS و PAP
Current configuration:

```
Current configuration:
!
version 11.2
service timestamps debug uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers
!
hostname rtpkrb
!
aaa new-model
!
!--- The following four command lines are specific to
!--- Cisco IOS 11.2 and later, up until 11.3.3.T. !--- See
!--- below this configuration for commands !--- for other
!--- Cisco IOS releases. ! aaa authentication login default
radius local
aaa authentication ppp default if-needed radius local
aaa authorization exec radius if-authenticated
aaa authorization network radius 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 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
                                                         !
                              snmp-server community public RW
                      snmp-server host 171.68.118.100 traps public
          radius-server host 171.68.118.101 auth-port 1645 acct-
                                                      port 1646
                                      radius-server key cisco
                                                            !
                                                  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
                                            exec-timeout 0 0
                                                  password ww
                                                            !
                                                         end
```

أوامر لإصدارات Cisco IOS الأخرى

ملاحظة: لاستخدام هذه الأوامر، قم بإزالة الأوامر المميزة من التكوين أعلاه والصق هذه الأوامر فيها، كما هو محدد بواسطة إصدار Cisco IOS لديك.

Cisco IOS 11.3.3.T حتى T.12.0.5

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

Cisco IOS 12.0.5.T والإصدارات الأحدث

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

تصحيح الأخطاء للعينة - RADIUS و PAP

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

```
                                                              #rtpkrb
                                                       rtpkrb#sho deb
                                                          :General OS
                                  AAA Authentication debugging is on
                                   AAA Authorization debugging is on
                                                                 :PPP
                                     PPP authentication debugging is on
                                PPP protocol negotiation debugging is on
                                        Radius protocol debugging is on
                                                              #rtpkrb
                         4d02h: As1 LCP: I CONFREQ [Closed] id 0 len 20
                        (4d02h: As1 LCP: ACCM 0x00000000 (0x020600000000
                    (4d02h: As1 LCP: MagicNumber 0x00001F67 (0x050600001F67
                                        (4d02h: As1 LCP: PFC (0x0702
                                       (4d02h: As1 LCP: ACFC (0x0802
                     4d02h: As1 LCP: Lower layer not up, discarding packet
                    LINK-3-UPDOWN: Interface Async1, changed state to up%
                    4d02h: As1 PPP: Treating connection as a dedicated line
                         4d02h: As1 PPP: Phase is ESTABLISHING, Active Open
                          4d02h: As1 LCP: O CONFREQ [Closed] id 85 len 24
                        (4d02h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                          (4d02h: As1 LCP: AuthProto PAP (0x0304C023
                    (4d02h: As1 LCP: MagicNumber 0xF54252D5 (0x0506F54252D5
                                        (4d02h: As1 LCP: PFC (0x0702
                                       (4d02h: 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 98 len 12
                       (As1 LCP: AuthProto 0xC123 (0x0308C12301000001
                            As1 LCP: O CONFREQ [REQsent] id 99 len 24
                            (As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                              (As1 LCP: AuthProto PAP (0x0304C023
                         (As1 LCP: MagicNumber 0xF54D1AF8 (0x0506F54D1AF8
                                          (As1 LCP: PFC (0x0702
                                         (As1 LCP: ACFC (0x0802
                            As1 LCP: I CONFREJ [REQsent] id 99 len 8
                              (As1 LCP: AuthProto PAP (0x0304C023
              As1 PPP: Closing connection because remote won't authenticate

                          4d02h: As1 LCP: I CONFACK [REQsent] id 85 len 24
                        (4d02h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                          (4d02h: As1 LCP: AuthProto PAP (0x0304C023
                    (4d02h: As1 LCP: MagicNumber 0xF54252D5 (0x0506F54252D5
                                        (4d02h: As1 LCP: PFC (0x0702
                                       (4d02h: As1 LCP: ACFC (0x0802
                         4d02h: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 20
                        (4d02h: As1 LCP: ACCM 0x00000000 (0x020600000000
                    (4d02h: As1 LCP: MagicNumber 0x00001F67 (0x050600001F67
                                        (4d02h: As1 LCP: PFC (0x0702
                                       (4d02h: As1 LCP: ACFC (0x0802
                         4d02h: As1 LCP: O CONFACK [ACKrcvd] id 0 len 20
                        (4d02h: As1 LCP: ACCM 0x00000000 (0x020600000000
                    (4d02h: As1 LCP: MagicNumber 0x00001F67 (0x050600001F67
                                        (4d02h: As1 LCP: PFC (0x0702
                                       (4d02h: As1 LCP: ACFC (0x0802
                                       4d02h: As1 LCP: State is Open
                     4d02h: As1 PPP: Phase is AUTHENTICATING, by this end
                    "4d02h: As1 PAP: I AUTH-REQ id 14 len 19 from "ddunlap
                         4d02h: As1 PAP: Authenticating peer ddunlap
              ''=4d02h: AAA/AUTHEN: create_user (0x15AD58) user='ddunlap' ruser
```

```
                    port='Async1' rem_addr='async' authen_type=PAP service=PPP priv=1
                        ''=4d02h: AAA/AUTHEN/START (1953436918): port='Async1' list
                                                        action=LOGIN service=PPP
                    4d02h: AAA/AUTHEN/START (1953436918): using "default" list
                               4d02h: AAA/AUTHEN (1953436918): status = UNKNOWN
                          4d02h: AAA/AUTHEN/START (1953436918): Method=RADIUS
                    ,4d02h: RADIUS: Initial Transmit id 7 171.68.118.101:1645
                                                    Access-Request, len 77
                                  4d02h: Attribute 4 6 0A1F0105
                                  4d02h: Attribute 5 6 00000001
                                  4d02h: Attribute 61 6 00000000
                                  4d02h: Attribute 1 9 6464756E
                                  4d02h: Attribute 2 18 7882E0A5
                                  4d02h: Attribute 6 6 00000002
                                  4d02h: Attribute 7 6 00000001



                  Radius server is down - produces ERROR - since user is not
                                    in local database, failover to local FAILs
                             "As1 PAP: I AUTH-REQ id 16 len 19 from "ddunlap
            As1 AUTH: Duplicate authentication request id=16 already in progress
                             "As1 PAP: I AUTH-REQ id 17 len 19 from "ddunlap
            As1 AUTH: Duplicate authentication request id=17 already in progress
                                              RADIUS: Retransmit id 9
                             "As1 PAP: I AUTH-REQ id 18 len 19 from "ddunlap
            As1 AUTH: Duplicate authentication request id=18 already in progress
                             "As1 PAP: I AUTH-REQ id 19 len 19 from "ddunlap
            As1 AUTH: Duplicate authentication request id=19 already in progress
                             "As1 PAP: I AUTH-REQ id 20 len 19 from "ddunlap
            As1 AUTH: Duplicate authentication request id=20 already in progress
                                              RADIUS: Retransmit id 9
                             "As1 PAP: I AUTH-REQ id 21 len 19 from "ddunlap
            As1 AUTH: Duplicate authentication request id=21 already in progress
                             "As1 PAP: I AUTH-REQ id 22 len 19 from "ddunlap
            As1 AUTH: Duplicate authentication request id=22 already in progress
                                              RADIUS: Retransmit id 9
                             "As1 PAP: I AUTH-REQ id 23 len 19 from "ddunlap
            As1 AUTH: Duplicate authentication request id=23 already in progress
                               (As1 LCP: I TERMREQ [Open] id 1 len 8 (0x000002CE
                                     As1 LCP: O TERMACK [Open] id 1 len 4
                                            As1 PPP: Phase is TERMINATING
                                            RADIUS: No response for id 9
                   .RADIUS-3-ALLDEADSERVER: No active radius servers found. Id 9%
                                       RADIUS: No response from server
                              AAA/AUTHEN (3025998849): status = ERROR
                          AAA/AUTHEN/START (3025998849): Method=LOCAL
                               AAA/AUTHEN (3025998849): status = FAIL



                              :Key in router does not match that of server
            RADIUS: Received from id 21 171.68.118.101:1645, Access-Reject, len 20
                                       RADIUS: Reply for 21 fails decrypt



                  :'NT client sends 'DOMAIN\user' and Radius server expects 'user
            RADIUS: Received from id 11 171.68.118.101:1645, Access-Reject, len 20
                                       AAA/AUTHEN (1406749115): status = FAIL
              "As1 PAP: O AUTH-NAK id 25 len 32 msg is "Password validation failure
                                            As1 PPP: Phase is TERMINATING
                                  As1 LCP: O TERMREQ [Open] id 108 len 4
                 ''=AAA/AUTHEN: free_user (0xDA520) user='CISCO\ddunlap' ruser
              port='Async1' rem_addr='async' authen_type=PAP service=PPP priv=1
```

,Radius server refuses user because user user enters bad password
:or both userid & password are bad
RADIUS: Received from id 12 171.68.118.101:1645, Access-Reject, len 20
AAA/AUTHEN (733718529): status = FAIL
"As1 PAP: O AUTH-NAK id 26 len 32 msg is "Password validation failure
As1 PPP: Phase is TERMINATING
As1 LCP: O TERMREQ [Open] id 111 len 4
''=AAA/AUTHEN: free_user (0x15B030) user='ddunlap' ruser
Async1' rem_addr='async' authen_type=PAP service=PPP priv=1'=

(User passes authentication (i.e. username/password is good
& but fails authorization (profile not set up for Service-Type=Framed
:(Framed-Protocol=PPP
RADIUS: Received from id 13 171.68.118.101:1645, Access-Accept, len 20
RADIUS: saved authorization data for user 15AD58 at 15ADF0
AAA/AUTHEN (56862281): status = PASS
AAA/AUTHOR/LCP As1: Authorize LCP
'AAA/AUTHOR/LCP: Async1: (959162008): user='cse
AAA/AUTHOR/LCP: Async1: (959162008): send AV service=ppp
AAA/AUTHOR/LCP: Async1: (959162008): send AV protocol=lcp
AAA/AUTHOR/LCP: Async1: (959162008): Method=RADIUS
.RADIUS: no appropriate authorization type for user
AAA/AUTHOR (959162008): Post authorization status = FAIL
AAA/AUTHOR/LCP As1: Denied
''=AAA/AUTHEN: free_user (0x15AD58) user='cse' ruser
port='Async1' rem_addr='async' authen_type=PAP service=PPP priv=1
"As1 PAP: O AUTH-NAK id 27 len 25 msg is "Authorization failed

4d02h: RADIUS: Received from id 7 171.68.118.101:1645, Access-Accept, len 32
4d02h: Attribute 6 6 00000002
4d02h: Attribute 7 6 00000001
4d02h: RADIUS: saved authorization data for user 15AD58 at 16C7F4
4d02h: AAA/AUTHEN (1953436918): status = PASS
4d02h: AAA/AUTHOR/LCP As1: Authorize LCP
'4d02h: AAA/AUTHOR/LCP: Async1: (2587233868): user='ddunlap
4d02h: AAA/AUTHOR/LCP: Async1: (2587233868): send AV service=ppp
4d02h: AAA/AUTHOR/LCP: Async1: (2587233868): send AV protocol=lcp
4d02h: AAA/AUTHOR/LCP: Async1: (2587233868): Method=RADIUS
4d02h: AAA/AUTHOR (2587233868): Post authorization status = PASS_REPL
4d02h: AAA/AUTHOR/LCP As1: Processing AV service=ppp
4d02h: As1 PAP: O AUTH-ACK id 14 len 5
4d02h: As1 PPP: Phase is UP
?4d02h: AAA/AUTHOR/FSM As1: (0): Can we start IPCP
'4d02h: AAA/AUTHOR/FSM: Async1: (423372862): user='ddunlap
4d02h: AAA/AUTHOR/FSM: Async1: (423372862): send AV service=ppp
4d02h: AAA/AUTHOR/FSM: Async1: (423372862): send AV protocol=ip
4d02h: AAA/AUTHOR/FSM: Async1: (423372862): Method=RADIUS
4d02h: AAA/AUTHOR (423372862): Post authorization status = PASS_REPL
4d02h: AAA/AUTHOR/FSM As1: We can start IPCP
4d02h: As1 IPCP: O CONFREQ [Closed] id 17 len 10
(4d02h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105
4d02h: As1 IPCP: I CONFREQ [REQsent] id 1 len 34
(4d02h: As1 IPCP: Address 0.0.0.0 (0x030600000000
(4d02h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
(4d02h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
(4d02h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
(4d02h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we want 0.0.0.0
4d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
4d02h: AAA/AUTHOR/IPCP As1: Authorization succeeded
4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want 0.0.0.0
'4d02h: As1 IPCP: Using pool 'async
4d02h: As1 IPCP: Pool returned 15.15.15.15

```
4d02h: As1 IPCP: O CONFREJ [REQsent] id 1 len 22
(4d02h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
(4d02h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
(4d02h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
4d02h: As1 IPCP: I CONFACK [REQsent] id 17 len 10
(4d02h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105
LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to up%
4d02h: As1 IPCP: I CONFREQ [ACKrcvd] id 2 len 16
(4d02h: As1 IPCP: Address 0.0.0.0 (0x030600000000
(4d02h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we want 15.15.15.15
4d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
4d02h: AAA/AUTHOR/IPCP As1: Authorization succeeded
4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want 15.15.15.15
4d02h: As1 IPCP: O CONFNAK [ACKrcvd] id 2 len 16
(4d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(4d02h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
4d02h: As1 IPCP: I CONFREQ [ACKrcvd] id 3 len 16
(4d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(4d02h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 15.15.15.15, we want 15.15.15.15
'4d02h: AAA/AUTHOR/IPCP: Async1: (4204275250): user='ddunlap
4d02h: AAA/AUTHOR/IPCP: Async1: (4204275250): send AV service=ppp
4d02h: AAA/AUTHOR/IPCP: Async1: (4204275250): send AV protocol=ip
4d02h: AAA/AUTHOR/IPCP: Async1: (4204275250): send AV addr*15.15.15.15
4d02h: AAA/AUTHOR/IPCP: Async1: (4204275250): Method=RADIUS
4d02h: AAA/AUTHOR (4204275250): Post authorization status = PASS_REPL
4d02h: AAA/AUTHOR/IPCP As1: Reject 15.15.15.15, using 15.15.15.15
4d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
4d02h: AAA/AUTHOR/IPCP As1: Processing AV addr*15.15.15.15
4d02h: AAA/AUTHOR/IPCP As1: Authorization succeeded
4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 15.15.15.15, we want 15.15.15.15
4d02h: As1 IPCP: O CONFACK [ACKrcvd] id 3 len 16
(4d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(4d02h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
4d02h: As1 IPCP: State is Open
4d02h: As1 IPCP: Install route to 15.15.15.15
#rtpkrb
```

[RADIUS و CHAP](#)

التكوين - بروتوكول RADIUS و CHAP

```
Current configuration:
!
version 11.2
service timestamps debug uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers
!
hostname rtpkrb
!
aaa new-model
!
!--- The following four command lines are specific to
!--- Cisco IOS 11.2 and later, up until 11.3.3.T. !--- See
!--- below this configuration for commands !--- for other
!--- Cisco IOS releases. ! aaa authentication login default
radius local
aaa authentication ppp default if-needed radius local
```

```
aaa authorization exec radius if-authenticated
aaa authorization network radius 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
!
snmp-server community public RW
snmp-server host 171.68.118.100 traps public
radius-server host 171.68.118.101 auth-port 1645 acct-
port 1646
radius-server key cisco
!
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
```

```
                                                            exec-timeout 0 0
                                                                 password ww
                                                                           !
                                                                         end
```

أوامر لإصدارات Cisco IOS الأخرى

ملاحظة: لاستخدام هذه الأوامر، قم بإزالة الأوامر المميزة من التكوين أعلاه والصق هذه الأوامر فيها، كما هو محدد بواسطة إصدار Cisco IOS لديك.

Cisco IOS 11.3.3.T حتى T.12.0.5

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

Cisco IOS 12.0.5.T والإصدارات الأحدث

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

تصحيح الأخطاء للعينة - RADIUS و CHAP

ملاحظة: في إخراج تصحيح الأخطاء، يسلط النص الغامق المائل الضوء على المشاكل الموجودة في تصحيح الأخطاء. يشير النص العادي إلى تصحيح جيد.

```
                                                          rtpkrb#show debug
                                                                :General OS
                                       AAA Authentication debugging is on
                                        AAA Authorization debugging is on
                                                                      :PPP
                                        PPP authentication debugging is on
                                 PPP protocol negotiation debugging is on
                                       Radius protocol debugging is on
                                                                     #rtpkrb
                          4d02h: As1 LCP: I CONFREQ [Closed] id 0 len 20
                       (4d02h: As1 LCP: ACCM 0x00000000 (0x020600000000
                   (4d02h: As1 LCP: MagicNumber 0x0000405F (0x05060000405F
                                       (4d02h: As1 LCP: PFC (0x0702
                                      (4d02h: As1 LCP: ACFC (0x0802
                   4d02h: As1 LCP: Lower layer not up, discarding packet
                   LINK-3-UPDOWN: Interface Async1, changed state to up%
                4d02h: As1 PPP: Treating connection as a dedicated line
                      4d02h: As1 PPP: Phase is ESTABLISHING, Active Open
                        4d02h: As1 LCP: O CONFREQ [Closed] id 87 len 25
                       (4d02h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                        (4d02h: As1 LCP: AuthProto CHAP (0x0305C22305
                  (4d02h: As1 LCP: MagicNumber 0xF5445B55 (0x0506F5445B55
                                       (4d02h: As1 LCP: PFC (0x0702
                                      (4d02h: As1 LCP: ACFC (0x0802
                        4d02h: As1 LCP: I CONFACK [REQsent] id 87 len 25
                       (4d02h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000
                        (4d02h: As1 LCP: AuthProto CHAP (0x0305C22305
                  (4d02h: As1 LCP: MagicNumber 0xF5445B55 (0x0506F5445B55
```

```
                                        (4d02h: As1 LCP: PFC (0x0702
                                        (4d02h: As1 LCP: ACFC (0x0802
                    4d02h: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 20
                    (4d02h: As1 LCP: ACCM 0x00000000 (0x020600000000
        (4d02h: As1 LCP: MagicNumber 0x0000405F (0x05060000405F
                                        (4d02h: As1 LCP: PFC (0x0702
                                        (4d02h: As1 LCP: ACFC (0x0802
                    4d02h: As1 LCP: O CONFACK [ACKrcvd] id 0 len 20
                    (4d02h: As1 LCP: ACCM 0x00000000 (0x020600000000
        (4d02h: As1 LCP: MagicNumber 0x0000405F (0x05060000405F
                                        (4d02h: As1 LCP: PFC (0x0702
                                        (4d02h: As1 LCP: ACFC (0x0802
                              4d02h: As1 LCP: State is Open
              4d02h: As1 PPP: Phase is AUTHENTICATING, by this end
          "4d02h: As1 CHAP: O CHALLENGE id 11 len 27 from "rtpkrb
          "4d02h: As1 CHAP: I RESPONSE id 11 len 28 from "chapadd
    ''=4d02h: AAA/AUTHEN: create_user (0x15AD58) user='chapadd' ruser
    port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1
          ''=4d02h: AAA/AUTHEN/START (575703226): port='Async1' list
                                   action=LOGIN service=PPP
            4d02h: AAA/AUTHEN/START (575703226): using "default" list
                  4d02h: AAA/AUTHEN (575703226): status = UNKNOWN
              4d02h: AAA/AUTHEN/START (575703226): Method=RADIUS
          ,4d02h: RADIUS: Initial Transmit id 8 171.68.118.101:1645
                                   Access-Request, len 78
                            4d02h: Attribute 4 6 0A1F0105
                            4d02h: Attribute 5 6 00000001
                            4d02h: Attribute 61 6 00000000
                            4d02h: Attribute 1 9 63686170
                            4d02h: Attribute 3 19 0B895D57
                            4d02h: Attribute 6 6 00000002
                            4d02h: Attribute 7 6 00000001


              Radius server is down - produces ERROR - since user is not
                              :in local database, failover to local FAILs
                    "As1 CHAP: I RESPONSE id 12 len 28 from "chapadd
    As1 AUTH: Duplicate authentication request id=12 already in progress
                    "As1 CHAP: I RESPONSE id 12 len 28 from "chapadd
    As1 AUTH: Duplicate authentication request id=12 already in progress
                                          RADIUS: Retransmit id 15
                    "As1 CHAP: I RESPONSE id 12 len 28 from "chapadd
    As1 AUTH: Duplicate authentication request id=12 already in progress
                    "As1 CHAP: I RESPONSE id 12 len 28 from "chapadd
    As1 AUTH: Duplicate authentication request id=12 already in progress
                    "As1 CHAP: I RESPONSE id 12 len 28 from "chapadd
    As1 AUTH: Duplicate authentication request id=12 already in progress
                                          RADIUS: Retransmit id 15
                    "As1 CHAP: I RESPONSE id 12 len 28 from "chapadd
    As1 AUTH: Duplicate authentication request id=12 already in progress
                    "As1 CHAP: I RESPONSE id 12 len 28 from "chapadd
    As1 AUTH: Duplicate authentication request id=12 already in progress
                                          RADIUS: Retransmit id 15
                    "As1 CHAP: I RESPONSE id 12 len 28 from "chapadd
    As1 AUTH: Duplicate authentication request id=12 already in progress
                    (As1 LCP: I TERMREQ [Open] id 1 len 8 (0x000002CE
                              As1 LCP: O TERMACK [Open] id 1 len 4
                                    As1 PPP: Phase is TERMINATING
                              .RADIUS: id 15, requester hung up
                              RADIUS: No response for id 15
                              RADIUS: No response from server
                        AAA/AUTHEN (1866705040): status = ERROR
                    AAA/AUTHEN/START (1866705040): Method=LOCAL
                        AAA/AUTHEN (1866705040): status = FAIL
```

```
             As1 CHAP: Unable to validate Response. Username chapadd: Authentication failure
                   "As1 CHAP: O FAILURE id 12 len 26 msg is "Authentication failure
                       ''=AAA/AUTHEN: free_user (0x1716B8) user='chapadd' ruser
             port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1


                                        :Key in router does not match that of server
               RADIUS: Received from id 21 171.68.118.101:1645, Access-Reject, len 20
                                             RADIUS: Reply for 21 fails decrypt

                    :'NT client sends 'DOMAIN\user' and Radius server expects 'user
               RADIUS: Received from id 16 171.68.118.101:1645, Access-Reject, len 20
                                             AAA/AUTHEN (2974782384): status = FAIL
                  :As1 CHAP: Unable to validate Response. Username CISCO\chapadd
                                                          Authentication failure
                   "As1 CHAP: O FAILURE id 13 len 26 msg is "Authentication failure
                                                As1 PPP: Phase is TERMINATING
                                           As1 LCP: O TERMREQ [Open] id 131 len 4
                    ''=AAA/AUTHEN: free_user (0x171700) user='CISCO\chapadd' ruser
             port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1


                      ,Radius server refuses user because user is set up for pap
                     :user enters bad password, or both userid & password are bad
               RADIUS: Received from id 17 171.68.118.101:1645, Access-Reject, len 20
                                             AAA/AUTHEN (3898168391): status = FAIL
             As1 CHAP: Unable to validate Response. Username ddunlap: Authentication failure
                   "As1 CHAP: O FAILURE id 14 len 26 msg is "Authentication failure
                                                As1 PPP: Phase is TERMINATING
                                           As1 LCP: O TERMREQ [Open] id 134 len 4
                      ''=AAA/AUTHEN: free_user (0x1716B8) user='ddunlap' ruser
             port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1


                      (User PASSes authentication (i.e. username/password is good
                 & but FAILs authorization (profile not set up for Service-Type=Framed
                                                            :(Framed-Protocol=PPP
               RADIUS: Received from id 19 171.68.118.101:1645, Access-Accept, len 20
                                             AAA/AUTHEN (2006894701): status = PASS
                                            AAA/AUTHOR/LCP As1: Authorize LCP
                         'AAA/AUTHOR/LCP: Async1: (2370106832): user='noauth
                      AAA/AUTHOR/LCP: Async1: (2370106832): send AV service=ppp
                      AAA/AUTHOR/LCP: Async1: (2370106832): send AV protocol=lcp
                         AAA/AUTHOR/LCP: Async1: (2370106832): Method=RADIUS
                         .RADIUS: no appropriate authorization type for user
                      AAA/AUTHOR (2370106832): Post authorization status = FAIL
                                             AAA/AUTHOR/LCP As1: Denied


    4d02h: RADIUS: Received from id 8 171.68.118.101:1645, Access-Accept, len 32
                                      4d02h: Attribute 6 6 00000002
                                      4d02h: Attribute 7 6 00000001
                     4d02h: AAA/AUTHEN (575703226): status = PASS
                          4d02h: AAA/AUTHOR/LCP As1: Authorize LCP
               '4d02h: AAA/AUTHOR/LCP: Async1: (4143416222): user='chapadd
              4d02h: AAA/AUTHOR/LCP: Async1: (4143416222): send AV service=ppp
              4d02h: AAA/AUTHOR/LCP: Async1: (4143416222): send AV protocol=lcp
                 4d02h: AAA/AUTHOR/LCP: Async1: (4143416222): Method=RADIUS
          4d02h: AAA/AUTHOR (4143416222): Post authorization status = PASS_REPL
                   4d02h: AAA/AUTHOR/LCP As1: Processing AV service=ppp
                          4d02h: As1 CHAP: O SUCCESS id 11 len 4
                                 4d02h: As1 PPP: Phase is UP
                     ?4d02h: AAA/AUTHOR/FSM As1: (0): Can we start IPCP
               '4d02h: AAA/AUTHOR/FSM: Async1: (1916451991): user='chapadd
              4d02h: AAA/AUTHOR/FSM: Async1: (1916451991): send AV service=ppp
              4d02h: AAA/AUTHOR/FSM: Async1: (1916451991): send AV protocol=ip
```

```
4d02h: AAA/AUTHOR/FSM: Async1: (1916451991): Method=RADIUS
4d02h: AAA/AUTHOR (1916451991): Post authorization status = PASS_REPL
4d02h: AAA/AUTHOR/FSM As1: We can start IPCP
4d02h: As1 IPCP: O CONFREQ [Closed] id 19 len 10
(4d02h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105)
4d02h: As1 IPCP: I CONFREQ [REQsent] id 1 len 34
(4d02h: As1 IPCP: Address 0.0.0.0 (0x030600000000
(4d02h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
(4d02h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
(4d02h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
(4d02h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we want 0.0.0.0
4d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
4d02h: AAA/AUTHOR/IPCP As1: Authorization succeeded
4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want 0.0.0.0
4d02h: As1 IPCP: Using pool 'async'
4d02h: As1 IPCP: Pool returned 15.15.15.15
4d02h: As1 IPCP: O CONFREJ [REQsent] id 1 len 22
(4d02h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000
(4d02h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000
(4d02h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000
4d02h: As1 IPCP: I CONFACK [REQsent] id 19 len 10
(4d02h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105
4d02h: As1 IPCP: I CONFREQ [ACKrcvd] id 2 len 16
(4d02h: As1 IPCP: Address 0.0.0.0 (0x030600000000
(4d02h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000
4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we want 15.15.15.15
4d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
4d02h: AAA/AUTHOR/IPCP As1: Authorization succeeded
4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want 15.15.15.15
4d02h: As1 IPCP: O CONFNAK [ACKrcvd] id 2 len 16
(4d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(4d02h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
4d02h: As1 IPCP: I CONFREQ [ACKrcvd] id 3 len 16
(4d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(4d02h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 15.15.15.15, we want 15.15.15.15
4d02h: AAA/AUTHOR/IPCP: Async1: (1096193147): user='chapadd'
4d02h: AAA/AUTHOR/IPCP: Async1: (1096193147): send AV service=ppp
4d02h: AAA/AUTHOR/IPCP: Async1: (1096193147): send AV protocol=ip
4d02h: AAA/AUTHOR/IPCP: Async1: (1096193147): send AV addr*15.15.15.15
4d02h: AAA/AUTHOR/IPCP: Async1: (1096193147): Method=RADIUS
4d02h: AAA/AUTHOR (1096193147): Post authorization status = PASS_REPL
4d02h: AAA/AUTHOR/IPCP As1: Reject 15.15.15.15, using 15.15.15.15
4d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
4d02h: AAA/AUTHOR/IPCP As1: Processing AV addr*15.15.15.15
4d02h: AAA/AUTHOR/IPCP As1: Authorization succeeded
4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 15.15.15.15, we want 15.15.15.15
4d02h: As1 IPCP: O CONFACK [ACKrcvd] id 3 len 16
(4d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F
(4d02h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667
4d02h: As1 IPCP: State is Open
%LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to up
4d02h: As1 IPCP: Install route to 15.15.15.15
rtpkrb#
```

أوامر التصحيح

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

ملاحظة: قبل إصدار أوامر **تصحيح الأخطاء**، يرجى الاطلاع على المعلومات المهمة في أوامر تصحيح الأخطاء.

- **تصحيح الأخطاء لمصادقة AAA** - عرض معلومات حول مصادقة AAA.
- **تفويض تصحيح الأخطاء AAA** - عرض معلومات حول تفويض AAA.
- debug radius - عرض معلومات تصحيح الأخطاء التفصيلية المرتبطة بخادم مصادقة طلب اتصال المستخدم البعيد (RADIUS).
- debug ppp negotiation - يعرض حزم PPP المرسلة أثناء بدء تشغيل PPP، حيث يتم التفاوض حول خيارات PPP.

معلومات ذات صلة

- صفحة دعم RADIUS
- الدعم الفني - 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).