

# El VPN de acceso remoto no trabaja cuando se configura la autenticación de RADIUS y la autorización

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## Introducción

Este documento describe el comportamiento para el Autenticación ampliada (Xauth) para los usuarios de VPN cuando ambo se configura la autenticación y autorización.

## Prerrequisitos

### Requisitos

Cisco recomienda que tenga conocimiento sobre estos temas:

- Autenticación, autorización y administración (AAA)
- VPN de acceso remoto

### Componentes Utilizados

La información en este documento se basa en un router de los servicios de la agregación de Cisco (la serie ASR)1000 que funciona con el software del <sup>®</sup> XE del Cisco IOS.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

## Problema

Configuran a los usuarios de VPN para ser autenticados y para ser autorizados por un servidor de RADIUS. La configuración en el ASR se muestra aquí:

```
aaa group server radius ACS-Rad
server-private 10.88.171.27 key cisco123
ip vrf forwarding Mgmt-intf
aaa group server tacacs+ ACS-Tac
server-private 10.88.171.27 key cisco123
ip vrf forwarding Mgmt-intf
aaa authentication login VPN_Client group ACS-Rad
aaa authentication login login_local local
aaa authorization network VPN_Client group ACS-Rad
aaa authorization network login_local local
aaa accounting network VPN_Client start-stop group ACS-Rad
aaa accounting network login_local start-stop group ACS-Rad
aaa session-id common
```

Sin embargo, siempre que usted intente autenticar, usted nunca consigue indicado para sus credenciales. En el cliente, este mensaje de error se considera en los mensajes del registro:

```
Unable to establish Phase 1 SA with server "X.X.X.X" because of
"DEL_REASON_PEER_NOT_RESPONDING"
```

Los debugs en el ASR indican que el nombre del grupo VPN está utilizado como el **username** para la tentativa de la autorización.

```
Sep 26 20:01:49.298: RADIUS(000025EA): Sending a IPv4 Radius Packet
Sep 26 20:01:49.298: RADIUS(000025EA): Send Access-Request to X.X.X.X id
1645/88,len 123
Sep 26 20:01:49.298: RADIUS: authenticator 0B 18 41 30 23 35 91 D5 - C3 DE 78
4E BB AC 30 4C
Sep 26 20:01:49.298: RADIUS: User-Name [1] 19 "vpnclient.cisco.com"
Sep 26 20:01:49.298: RADIUS: User-Password [2] 18 *
Sep 26 20:01:49.298: RADIUS: Calling-Station-Id [31] 16 "X.X.X.X"
Sep 26 20:01:49.298: RADIUS: NAS-Port-Type [61] 6 Virtual [5]
Sep 26 20:01:49.298: RADIUS: NAS-Port [5] 6 0
Sep 26 20:01:49.299: RADIUS: NAS-Port-Id [87] 16 "X.X.X.X"
Sep 26 20:01:49.299: RADIUS: Service-Type [6] 6 Outbound [5]
Sep 26 20:01:49.299: RADIUS: NAS-IP-Address [4] 6 192.168.0.55
Sep 26 20:01:49.299: RADIUS: Acct-Session-Id [44] 10 "00002CD6"
Sep 26 20:01:49.299: RADIUS(000025EA): Started 5 sec timeout
Sep 26 20:01:49.326: RADIUS: Received from id 1645/88 X.X.X.X:1812, Access-Accept,
len 26
Sep 26 20:01:49.326: RADIUS: authenticator D3 9D 20 7E 09 89 68 BD - 1A DF A3
B6 6E 25 8D 77
Sep 26 20:01:49.326: RADIUS: Service-Type [6] 6 Framed [2]
Sep 26 20:01:49.326: RADIUS(000025EA): Received from id 1645/88
Sep 26
iacc02.crt#20:01:49.326: ISAKMP:(0):ISAKMP/tunnel: received callback from AAA
Sep 26 20:01:49.326: ISAKMP/tunnel: received tunnel atts
Sep 26 20:01:49.326: ISAKMP:Error - skey id.
```

**Nota:** Sin embargo, todo trabaja muy bien cuando se configura la autorización local.

# Solución

Se espera el comportamiento señalado y no un bug. El VPN de acceso remoto tiene dos processes separados de la autenticación:

1. Clave de autenticación del preshared para el túnel con el cual el usuario conecta.
2. XAUTH que autentica al usuario individual.

El XAUTH es la fase 1.5 y ocurre solamente después que la clave de autenticación del preshared tiene éxito en la fase 1. La razón usted no puede ver que es un usuario indicar para una contraseña porque la fase 1 todavía no ha completado. El nombre de usuario que se envía en los debugs está realmente para la clave de autenticación del preshared de la fase 1.

## Autorización local contra la autorización de RADIUS

Cuando se configura el authoriation local, la cabecera VPN coge el valor de la clave configurado bajo configuración de grupo para completar la fase 1. Esto permite que la fase 1 complete, así que el router puede proceder al XAUTH:

```
*Dec 26 12:42:13.926: ISAKMP:(0):ISAKMP/tunnel: setting up tunnel vpnclient
pw request
*Dec 26 12:42:13.926: AAA/AUTHOR (0x12): Pick method list 'login_local'
*Dec 26 12:42:13.926: ISAKMP:(0):ISAKMP/tunnel: Tunnel vpnclient PW Request
successfully sent to AAA
*Dec 26 12:42:13.926: ISAKMP:(0):Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH
*Dec 26 12:42:13.926: ISAKMP:(0):Old State = IKE_READY New State =
IKE_R_AM_AAA_AWAIT

*Dec 26 12:42:13.927: ISAKMP:(0):ISAKMP/tunnel: received callback from AAA
AAA/AUTHOR/IKE: Processing AV tunnel-password
AAA/AUTHOR/IKE: Processing AV default-domain
AAA/AUTHOR/IKE: Processing AV addr-pool
AAA/AUTHOR/IKE: Processing AV dns-servers
AAA/AUTHOR/IKE: Processing AV wins-servers
AAA/AUTHOR/IKE: Processing AV route-metric
AAA/AUTHOR/IKE: Processing AV max-users
AAA/AUTHOR/IKE: Processing AV max-logins
AAA/AUTHOR/IKE: Processing AV netmask
*Dec 26 12:42:13.927: ISAKMP/tunnel: received tunnel atts
*Dec 26 12:42:13.927: ISAKMP:(35002): constructed NAT-T vendor-02 ID
*Dec 26 12:42:13.927: ISAKMP:(35002):SA is doing pre-shared key authentication
plus XAUTH using id type ID_IPV4_ADDR
*Dec 26 12:42:13.927: ISAKMP (35002): ID payload
next-payload : 10
type : 1
address : 172.16.161.24
protocol : 0
port : 0
length : 12
*Dec 26 12:42:13.927: ISAKMP:(35002):Total payload length: 12
*Dec 26 12:42:13.927: ISAKMP:(35002): sending packet to X.X.X.X my_port 500
peer_port 65328 (R) AG_INIT_EXCH
*Dec 26 12:42:13.927: ISAKMP:(35002):Sending an IKE IPv4 Packet.
*Dec 26 12:42:13.927: ISAKMP:(35002):Input = IKE_MESG_FROM_AAA, PRESHARED_KEY_REPLY
*Dec 26 12:42:13.927: ISAKMP:(35002):Old State = IKE_R_AM_AAA_AWAIT New State =
IKE_R_AM2
```

\*Dec 26 12:42:14.017: ISAKMP (35002): received packet from X.X.X.X dport 4500 sport 59464 Mgmt-intf (R) AG\_INIT\_EXCH

\*Dec 26 12:42:14.017: ISAKMP:(35002): processing HASH payload. message ID = 0

\*Dec 26 12:42:14.017: ISAKMP:(35002): processing NOTIFY INITIAL\_CONTACT protocol 1 spi 0, message ID = 0, sa = 0x7F7796C1DDC0

\*Dec 26 12:42:14.018: ISAKMP:received payload type 20

\*Dec 26 12:42:14.018: ISAKMP (35002): His hash no match - this node outside NAT

\*Dec 26 12:42:14.018: ISAKMP:received payload type 20

\*Dec 26 12:42:14.018: ISAKMP (35002): His hash no match - this node outside NAT

\*Dec 26 12:42:14.018: ISAKMP:(35002):SA authentication status:  
authenticated

\*Dec 26 12:42:14.018: ISAKMP:(35002):SA has been authenticated with X.X.X.X

\*Dec 26 12:42:14.018: ISAKMP:(35002):Detected port,floating to port = 59464

\*Dec 26 12:42:14.018: ISAKMP: Trying to find existing peer  
X.X.X.X/X.X.X.X/59464/Outside

\*Dec 26 12:42:14.018: ISAKMP:(35002):SA authentication status:  
authenticated

\*Dec 26 12:42:14.018: ISAKMP AAA: Profile vpnclient.cisco.com in use with AAA list VPN\_Client for peer X.X.X.X

\*Dec 26 12:42:14.018: ISAKMP AAA: No peer record for address X.X.X.X, port 59464.  
Create Accounting Record

\*Dec 26 12:42:14.018: ISAKMP: Attempting to insert peer index node : 0x2

\*Dec 26 12:42:14.018: ISAKMP AAA: Create Accounting Record 0x7F779645B5E0 for peer X.X.X.X/59464 - peer-index 0x2

\*Dec 26 12:42:14.018: ISAKMP AAA: NAS Port Id is already set to X.X.X.X

\*Dec 26 12:42:14.018: ISAKMP AAA: crypto\_ikmp\_aaa\_acct\_rec\_create: pki\_sd 0

\*Dec 26 12:42:14.018: ISAKMP:(35002):Input = IKE\_MSG\_FROM\_PEER, IKE\_AM\_EXCH

\*Dec 26 12:42:14.018: ISAKMP:(35002):Old State = IKE\_R\_AM2 New State =  
IKE\_P1\_COMPLETE

\*Dec 26 12:42:14.018: ISAKMP:(35002):Need XAUTH

\*Dec 26 12:42:14.018: ISAKMP: set new node 2793554424 to CONF\_XAUTH

\*Dec 26 12:42:14.018: ISAKMP/xauth: request attribute XAUTH\_USER\_NAME\_V2

\*Dec 26 12:42:14.018: ISAKMP/xauth: request attribute XAUTH\_USER\_PASSWORD\_V2

\*Dec 26 12:42:14.018: ISAKMP:(35002): initiating peer config to X.X.X.X.  
ID = 2793554424

\*Dec 26 12:42:14.018: ISAKMP:(35002): sending packet to X.X.X.X my\_port 4500  
peer\_port 59464 (R) CONF\_XAUTH

\*Dec 26 12:42:14.018: ISAKMP:(35002):Sending an IKE IPv4 Packet.

\*Dec 26 12:42:14.018: ISAKMP:(35002):Input = IKE\_MSG\_INTERNAL,  
IKE\_PHASE1\_COMPLETE

\*Dec 26 12:42:14.018: ISAKMP:(35002):Old State = IKE\_P1\_COMPLETE New State =  
IKE\_XAUTH\_REQ\_SENT

\*Dec 26 12:42:21.572: ISAKMP (35002): received packet from X.X.X.X dport 4500  
sport 59464 Mgmt-intf (R) CONF\_XAUTH

\*Dec 26 12:42:21.572: ISAKMP:(35002):processing transaction payload from  
X.X.X.X. message ID = 2793554424

\*Dec 26 12:42:21.572: ISAKMP: Config payload REPLY

\*Dec 26 12:42:21.572: ISAKMP/xauth: reply attribute XAUTH\_USER\_NAME\_V2

\*Dec 26 12:42:21.572: ISAKMP/xauth: reply attribute XAUTH\_USER\_PASSWORD\_V2

\*Dec 26 12:42:21.572: ISAKMP AAA: NAS Port Id is already set to X.X.X.X

\*Dec 26 12:42:21.572: ISAKMP/Authen: unique id = 19

\*Dec 26 12:42:21.572: ISAKMP:(35002):AAA Authen: setting up authen\_request

\*Dec 26 12:42:21.572: AAA/AUTHEN/LOGIN (00000013): Pick method list 'VPN\_Client'

\*Dec 26 12:42:21.572: ISAKMP:(35002):AAA Authen: Successfully sent authen  
info to AAA

\*Dec 26 12:42:21.572: ISAKMP:(35002):deleting node 2793554424 error FALSE  
reason "Done with xauth request/reply exchange"

\*Dec 26 12:42:21.572: ISAKMP:(35002):Input = IKE\_MSG\_FROM\_PEER, IKE\_CFG\_REPLY

\*Dec 26 12:42:21.572: ISAKMP:(35002):Old State = IKE\_XAUTH\_REQ\_SENT New

State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT

```
*Dec 26 12:42:21.573: RADIUS/ENCODE(00000013):Orig. component type = VPN IPSEC
*Dec 26 12:42:21.573: RADIUS: AAA Unsupported Attr: interface [221]
13 32631
*Dec 26 12:42:21.573: RADIUS/ENCODE(00000013): dropping service type,
"radius-server attribute 6 on-for-login-auth" is off
*Dec 26 12:42:21.573: RADIUS(00000013): Config NAS IP: 0.0.0.0
*Dec 26 12:42:21.573: RADIUS(00000013): Config NAS IPv6: ::
*Dec 26 12:42:21.573: Getting session id for EXEC(00000013) : db=7F7792DEEAB8
*Dec 26 12:42:21.573: RADIUS/ENCODE(00000013): acct_session_id: 8
*Dec 26 12:42:21.573: RADIUS(00000013): sending
*Dec 26 12:42:21.573: RADIUS/ENCODE: Best Local IP-Address X.X.X.X for
Radius-Server X.X.X.X
*Dec 26 12:42:21.573: RADIUS(00000013): Sending a IPv4 Radius Packet
*Dec 26 12:42:21.573: RADIUS(00000013): Send Access-Request to 10.88.171.27:1645
id 1645/1,len 95
*Dec 26 12:42:21.573: RADIUS: authenticator B6 8C 79 D9 91 0C 79 50 - CB B0
2A 87 2A 61 03 E8
*Dec 26 12:42:21.573: RADIUS: User-Name [1] 10 "vpnclient-user"
*Dec 26 12:42:21.573: RADIUS: User-Password [2] 18 *
*Dec 26 12:42:21.573: RADIUS: Calling-Station-Id [31] 14 "X.X.X.X"
*Dec 26 12:42:21.573: RADIUS: NAS-Port-Type [61] 6 Virtual [5]
*Dec 26 12:42:21.573: RADIUS: NAS-Port [5] 6 0
*Dec 26 12:42:21.573: RADIUS: NAS-Port-Id [87] 15 "X.X.X.X"
*Dec 26 12:42:21.573: RADIUS: NAS-IP-Address [4] 6 X.X.X.X
*Dec 26 12:42:21.573: RADIUS(00000013): Started 5 sec timeout
*Dec 26 12:42:21.671: RADIUS: Received from id 1645/1 X.X.X.X:1645, Access-Accept,
len 56
*Dec 26 12:42:21.671: RADIUS: authenticator E7 C1 B1 3D 04 59 48 22 - 4B 80 9D
1A 5E CA 0A A6
*Dec 26 12:42:21.671: RADIUS: User-Name [1] 10 "vpnclient-user"
*Dec 26 12:42:21.671: RADIUS: Class [25] 26
*Dec 26 12:42:21.671: RADIUS: 43 41 43 53 3A 41 43 53 2D 35 78 2F 31 37 33 32
[CACS:ACS-5x/1732]
*Dec 26 12:42:21.671: RADIUS: 37 32 35 30 33 2F 31 34 [ 72503/14]
*Dec 26 12:42:21.671: RADIUS(00000013): Received from id 1645/1
*Dec 26 12:42:21.672: ISAKMP:(35002):ISAKMP/author: Class attribute (len=24)
'CACS:ACS-5x/173272503/14'
*Dec 26 12:42:21.672: ISAKMP:(35002):AAA Authen: No group atts added
*Dec 26 12:42:21.672: ISAKMP: set new node 1771945814 to CONF_XAUTH
*Dec 26 12:42:21.672: ISAKMP:(35002): initiating peer config to X.X.X.X. ID =
1771945814
*Dec 26 12:42:21.672: ISAKMP:(35002): sending packet to X.X.X.X my_port 4500
peer_port 59464 (R) CONF_XAUTH
*Dec 26 12:42:21.672: ISAKMP:(35002):Sending an IKE IPv4 Packet.
*Dec 26 12:42:21.672: ISAKMP:(35002):Input = IKE_MSG_FROM_AAA,
IKE_AAA_CONT_LOGIN
*Dec 26 12:42:21.672: ISAKMP:(35002):Old State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT
New State = IKE_XAUTH_SET_SENT

*Dec 26 12:42:21.759: ISAKMP (35002): received packet from X.X.X.X dport 4500 sport
59464 Mgmt-intf (R) CONF_XAUTH
*Dec 26 12:42:21.759: ISAKMP:(35002):processing transaction payload from X.X.X.X.
message ID = 1771945814
*Dec 26 12:42:21.759: ISAKMP: Config payload ACK
*Dec 26 12:42:21.759: ISAKMP:(35002): (blank) XAUTH ACK Processed
*Dec 26 12:42:21.759: ISAKMP:(35002):deleting node 1771945814 error FALSE reason
"Transaction mode done"
*Dec 26 12:42:21.759: ISAKMP:(35002):Talking to a Unity Client
*Dec 26 12:42:21.759: ISAKMP:(35002):Input = IKE_MSG_FROM_PEER, IKE_CFG_ACK
*Dec 26 12:42:21.759: ISAKMP:(35002):Old State = IKE_XAUTH_SET_SENT New State =
IKE_P1_COMPLETE
```

\*Dec 26 12:42:21.759: ISAKMP:(35002):Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE  
\*Dec 26 12:42:21.759: ISAKMP:(35002):Old State = IKE\_P1\_COMPLETE New State =  
IKE\_P1\_COMPLETE

\*Dec 26 12:42:21.763: ISAKMP (35002): received packet from X.X.X.X dport 4500 sport  
59464 Mgmt-intf (R) QM\_IDLE  
\*Dec 26 12:42:21.763: ISAKMP: set new node 3504137478 to QM\_IDLE  
\*Dec 26 12:42:21.763: ISAKMP:(35002):processing transaction payload from X.X.X.X.  
message ID = 3504137478  
\*Dec 26 12:42:21.763: ISAKMP: Config payload REQUEST  
\*Dec 26 12:42:21.763: ISAKMP:(35002):checking request:  
\*Dec 26 12:42:21.763: ISAKMP: IP4\_ADDRESS  
\*Dec 26 12:42:21.763: ISAKMP: IP4\_NETMASK  
\*Dec 26 12:42:21.763: ISAKMP: IP4\_DNS  
\*Dec 26 12:42:21.763: ISAKMP: IP4\_NBNS  
\*Dec 26 12:42:21.763: ISAKMP: ADDRESS\_EXPIRY  
\*Dec 26 12:42:21.763: ISAKMP: MODECFG\_BANNER  
\*Dec 26 12:42:21.763: ISAKMP: MODECFG\_SAVEPWD  
\*Dec 26 12:42:21.763: ISAKMP: DEFAULT\_DOMAIN  
\*Dec 26 12:42:21.763: ISAKMP: SPLIT\_INCLUDE  
\*Dec 26 12:42:21.763: ISAKMP: SPLIT\_DNS  
\*Dec 26 12:42:21.763: ISAKMP: PFS  
\*Dec 26 12:42:21.763: ISAKMP: MODECFG\_BROWSER\_PROXY  
\*Dec 26 12:42:21.763: ISAKMP: BACKUP\_SERVER  
\*Dec 26 12:42:21.763: ISAKMP: MODECFG\_SMARTCARD\_REMOVAL\_DISCONNECT  
\*Dec 26 12:42:21.763: ISAKMP: APPLICATION\_VERSION  
\*Dec 26 12:42:21.763: ISAKMP: Client Version is : Cisco Systems VPN Client  
5.0.07.0440:WinNTp  
\*Dec 26 12:42:21.763: ISAKMP: FW\_RECORD  
\*Dec 26 12:42:21.763: ISAKMP: MODECFG\_HOSTNAME  
\*Dec 26 12:42:21.763: ISAKMP:(35002):ISAKMP/author: setting up the authorization  
request for vpnclient  
\*Dec 26 12:42:21.763: AAA/AUTHOR (0x13): Pick method list 'login\_local'  
**\*Dec 26 12:42:21.763: ISAKMP/author: Author request for group vpnclientsuccessfully  
sent to AAA**  
\*Dec 26 12:42:21.763: ISAKMP:(35002):Input = IKE\_MSG\_FROM\_PEER, IKE\_CFG\_REQUEST  
\*Dec 26 12:42:21.763: ISAKMP:(35002):Old State = IKE\_P1\_COMPLETE New State =  
IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT

\*Dec 26 12:42:21.764: ISAKMP:(0):ISAKMP/author: received callback from AAA  
AAA/AUTHOR/IKE: Processing AV tunnel-password  
AAA/AUTHOR/IKE: Processing AV default-domain  
AAA/AUTHOR/IKE: Processing AV addr-pool  
AAA/AUTHOR/IKE: Processing AV dns-servers  
AAA/AUTHOR/IKE: Processing AV wins-servers  
\*Dec 26 12:42:21.764:  
AAA/AUTHOR/IKE: no WINS addresses  
AAA/AUTHOR/IKE: Processing AV route-metric  
AAA/AUTHOR/IKE: Processing AV max-users  
AAA/AUTHOR/IKE: Processing AV max-logins  
AAA/AUTHOR/IKE: Processing AV netmask  
\*Dec 26 12:42:21.764: ISAKMP:(35002):ISAKMP/author: No Class attributes  
\*Dec 26 12:42:21.764: ISAKMP:(35002):attributes sent in message:  
\*Dec 26 12:42:21.764: Address: 0.2.0.0  
\*Dec 26 12:42:21.766: ISAKMP:(35002):allocating address X.X.X.X  
\*Dec 26 12:42:21.766: ISAKMP: Sending private address: X.X.X.X  
\*Dec 26 12:42:21.766: ISAKMP: Sending subnet mask: 255.255.255.0  
\*Dec 26 12:42:21.766: ISAKMP: Sending IP4\_DNS server address: X.X.X.X  
\*Dec 26 12:42:21.766: ISAKMP: Sending ADDRESS\_EXPIRY seconds left to use the  
address: 86392  
\*Dec 26 12:42:21.766: ISAKMP: Sending save password reply value 0  
\*Dec 26 12:42:21.766: ISAKMP: Sending DEFAULT\_DOMAIN default domain name:  
vpnclient.cisco.com  
\*Dec 26 12:42:21.766: ISAKMP: Sending smartcard\_removal\_disconnect reply

value 0

```
*Dec 26 12:42:21.766: ISAKMP: Sending APPLICATION_VERSION string: Cisco IOS Software,
IOS-XE Software (X86_64_LINUX_IOSD-ADVENTERPRISEK9-M), Version 15.2(4)S,
RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2012 by Cisco Systems, Inc.
Compiled Mon 23-Jul-12 20:02 by mcpre
*Dec 26 12:42:21.766: ISAKMP (35002): Unknown Attr: MODECFG_HOSTNAME (0x700A)
*Dec 26 12:42:21.766: ISAKMP:(35002): responding to peer config from 72.163.84.76.
ID = 3504137478
*Dec 26 12:42:21.766: ISAKMP: Marking node 3504137478 for late deletion
*Dec 26 12:42:21.766: ISAKMP:(35002): sending packet to X.X.X.X my_port 4500 peer_port
59464 (R) CONF_ADDR
*Dec 26 12:42:21.766: ISAKMP:(35002):Sending an IKE IPv4 Packet.
*Dec 26 12:42:21.766: ISAKMP:(35002):Talking to a Unity Client
*Dec 26 12:42:21.766: ISAKMP:(35002):Input = IKE_MESG_FROM_AAA, IKE_AAA_GROUP_ATTR
*Dec 26 12:42:21.766: ISAKMP:(35002):Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New
State = IKE_P1_COMPLETE
*Dec 26 12:42:21.766: ISAKMP:FSM error - Message from AAA grp/user.
*Dec 26 12:42:21.766: ISAKMP:(35002):Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE
*Dec 26 12:42:21.766: ISAKMP:(35002):Old State = IKE_P1_COMPLETE New State =
IKE_P1_COMPLETE
```

Quando configuran al router para autorizar contra el servidor de RADIUS, no trabaja porque para conseguir la **clave** (para la autenticación del preshared), debe hacer una interrogación del pedido de acceso al servidor de RADIUS. Sin embargo, la interrogación del pedido de acceso requiere un **nombre de usuario** ser enviada a RADIUS y puesto que el XAUTH no se hace todavía, no puede utilizar el **nombre de usuario** de cliente. En esta situación, utiliza el **nombre del grupo** como el **Nombre de usuario** en lugar de otro. Sin embargo, puesto que ese ID no ha configurado al servidor de RADIUS para verificar a ningún usuario, rechaza la petición. Debido a esto, la fase 1 nunca completa, y nunca indican al usuario para las credenciales.

## Configuración en funcionamiento

### Configuración del router

Aquí está la configuración para el router.

```
*Dec 26 12:42:13.926: ISAKMP:(0):ISAKMP/tunnel: setting up tunnel vpnclient
pw request
*Dec 26 12:42:13.926: AAA/AUTHOR (0x12): Pick method list 'login_local'
*Dec 26 12:42:13.926: ISAKMP:(0):ISAKMP/tunnel: Tunnel vpnclient PW Request
successfully sent to AAA
*Dec 26 12:42:13.926: ISAKMP:(0):Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH
*Dec 26 12:42:13.926: ISAKMP:(0):Old State = IKE_READY New State =
IKE_R_AM_AAA_AWAIT
*Dec 26 12:42:13.927: ISAKMP:(0):ISAKMP/tunnel: received callback from AAA
AAA/AUTHOR/IKE: Processing AV tunnel-password
AAA/AUTHOR/IKE: Processing AV default-domain
AAA/AUTHOR/IKE: Processing AV addr-pool
AAA/AUTHOR/IKE: Processing AV dns-servers
AAA/AUTHOR/IKE: Processing AV wins-servers
AAA/AUTHOR/IKE: Processing AV route-metric
AAA/AUTHOR/IKE: Processing AV max-users
AAA/AUTHOR/IKE: Processing AV max-logins
```

**AAA/AUTHOR/IKE: Processing AV netmask**

\*Dec 26 12:42:13.927: ISAKMP/tunnel: received tunnel atts  
\*Dec 26 12:42:13.927: ISAKMP:(35002): constructed NAT-T vendor-02 ID  
\*Dec 26 12:42:13.927: ISAKMP:(35002):SA is doing pre-shared key authentication  
plus XAUTH using id type ID\_IPV4\_ADDR  
\*Dec 26 12:42:13.927: ISAKMP (35002): ID payload  
next-payload : 10  
type : 1  
address : 172.16.161.24  
protocol : 0  
port : 0  
length : 12  
\*Dec 26 12:42:13.927: ISAKMP:(35002):Total payload length: 12  
\*Dec 26 12:42:13.927: ISAKMP:(35002): sending packet to X.X.X.X my\_port 500  
peer\_port 65328 (R) AG\_INIT\_EXCH  
\*Dec 26 12:42:13.927: ISAKMP:(35002):Sending an IKE IPv4 Packet.  
\*Dec 26 12:42:13.927: ISAKMP:(35002):Input = IKE\_MESG\_FROM\_AAA, PRESHARED\_KEY\_REPLY  
\*Dec 26 12:42:13.927: ISAKMP:(35002):Old State = IKE\_R\_AM\_AAA\_AWAIT New State =  
IKE\_R\_AM2  
  
\*Dec 26 12:42:14.017: ISAKMP (35002): received packet from X.X.X.X dport 4500 sport  
59464 Mgmt-intf (R) AG\_INIT\_EXCH  
\*Dec 26 12:42:14.017: ISAKMP:(35002): processing HASH payload. message ID = 0  
\*Dec 26 12:42:14.017: ISAKMP:(35002): processing NOTIFY INITIAL\_CONTACT protocol 1  
spi 0, message ID = 0, sa = 0x7F7796C1DDC0  
\*Dec 26 12:42:14.018: ISAKMP:received payload type 20  
\*Dec 26 12:42:14.018: ISAKMP (35002): His hash no match - this node outside NAT  
\*Dec 26 12:42:14.018: ISAKMP:received payload type 20  
\*Dec 26 12:42:14.018: ISAKMP (35002): His hash no match - this node outside NAT  
\*Dec 26 12:42:14.018: ISAKMP:(35002):SA authentication status:  
authenticated  
\*Dec 26 12:42:14.018: ISAKMP:(35002):SA has been authenticated with X.X.X.X  
\*Dec 26 12:42:14.018: ISAKMP:(35002):Detected port,floating to port = 59464  
\*Dec 26 12:42:14.018: ISAKMP: Trying to find existing peer  
X.X.X.X/X.X.X.X/59464/Outside  
\*Dec 26 12:42:14.018: ISAKMP:(35002):SA authentication status:  
authenticated  
  
\*Dec 26 12:42:14.018: ISAKMP AAA: Profile vpnclient.cisco.com in use with AAA list  
VPN\_Client for peer X.X.X.X  
\*Dec 26 12:42:14.018: ISAKMP AAA: No peer record for address X.X.X.X, port 59464.  
Create Accounting Record  
\*Dec 26 12:42:14.018: ISAKMP: Attempting to insert peer index node : 0x2  
\*Dec 26 12:42:14.018: ISAKMP AAA: Create Accounting Record 0x7F779645B5E0 for peer  
X.X.X.X/59464 - peer-index 0x2  
\*Dec 26 12:42:14.018: ISAKMP AAA: NAS Port Id is already set to X.X.X.X  
\*Dec 26 12:42:14.018: ISAKMP AAA: crypto\_ikmp\_aaa\_acct\_rec\_create: pki\_sd 0  
  
\*Dec 26 12:42:14.018: ISAKMP:(35002):Input = IKE\_MESG\_FROM\_PEER, IKE\_AM\_EXCH  
\*Dec 26 12:42:14.018: ISAKMP:(35002):Old State = IKE\_R\_AM2 New State =  
IKE\_P1\_COMPLETE  
  
\*Dec 26 12:42:14.018: ISAKMP:(35002):Need XAUTH  
\*Dec 26 12:42:14.018: ISAKMP: set new node 2793554424 to CONF\_XAUTH  
\*Dec 26 12:42:14.018: ISAKMP/xauth: request attribute XAUTH\_USER\_NAME\_V2  
\*Dec 26 12:42:14.018: ISAKMP/xauth: request attribute XAUTH\_USER\_PASSWORD\_V2  
\*Dec 26 12:42:14.018: ISAKMP:(35002): initiating peer config to X.X.X.X.  
ID = 2793554424  
\*Dec 26 12:42:14.018: ISAKMP:(35002): sending packet to X.X.X.X my\_port 4500  
peer\_port 59464 (R) CONF\_XAUTH  
\*Dec 26 12:42:14.018: ISAKMP:(35002):Sending an IKE IPv4 Packet.  
\*Dec 26 12:42:14.018: ISAKMP:(35002):Input = IKE\_MESG\_INTERNAL,  
IKE\_PHASE1\_COMPLETE  
\*Dec 26 12:42:14.018: ISAKMP:(35002):Old State = IKE\_P1\_COMPLETE New State =



## IKE\_XAUTH\_REQ\_SENT

```
*Dec 26 12:42:21.572: ISAKMP (35002): received packet from X.X.X.X dport 4500
sport 59464 Mgmt-intf (R) CONF_XAUTH
*Dec 26 12:42:21.572: ISAKMP:(35002):processing transaction payload from
X.X.X.X. message ID = 2793554424
*Dec 26 12:42:21.572: ISAKMP: Config payload REPLY
*Dec 26 12:42:21.572: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2
*Dec 26 12:42:21.572: ISAKMP/xauth: reply attribute XAUTH_USER_PASSWORD_V2
*Dec 26 12:42:21.572: ISAKMP AAA: NAS Port Id is already set to X.X.X.X
*Dec 26 12:42:21.572: ISAKMP/Authen: unique id = 19
*Dec 26 12:42:21.572: ISAKMP:(35002):AAA Authen: setting up authen_request
*Dec 26 12:42:21.572: AAA/AUTHEN/LOGIN (00000013): Pick method list 'VPN_Client'
*Dec 26 12:42:21.572: ISAKMP:(35002):AAA Authen: Successfully sent authen
info to AAA

*Dec 26 12:42:21.572: ISAKMP:(35002):deleting node 2793554424 error FALSE
reason "Done with xauth request/reply exchange"
*Dec 26 12:42:21.572: ISAKMP:(35002):Input = IKE_MESG_FROM_PEER, IKE_CFG_REPLY
*Dec 26 12:42:21.572: ISAKMP:(35002):Old State = IKE_XAUTH_REQ_SENT New
State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT

*Dec 26 12:42:21.573: RADIUS/ENCODE(00000013):Orig. component type = VPN IPSEC
*Dec 26 12:42:21.573: RADIUS: AAA Unsupported Attr: interface [221]
13 32631
*Dec 26 12:42:21.573: RADIUS/ENCODE(00000013): dropping service type,
"radius-server attribute 6 on-for-login-auth" is off
*Dec 26 12:42:21.573: RADIUS(00000013): Config NAS IP: 0.0.0.0
*Dec 26 12:42:21.573: RADIUS(00000013): Config NAS IPv6: ::
*Dec 26 12:42:21.573: Getting session id for EXEC(00000013) : db=7F7792DEEAB8
*Dec 26 12:42:21.573: RADIUS/ENCODE(00000013): acct_session_id: 8
*Dec 26 12:42:21.573: RADIUS(00000013): sending
*Dec 26 12:42:21.573: RADIUS/ENCODE: Best Local IP-Address X.X.X.X for
Radius-Server X.X.X.X
*Dec 26 12:42:21.573: RADIUS(00000013): Sending a IPv4 Radius Packet
*Dec 26 12:42:21.573: RADIUS(00000013): Send Access-Request to 10.88.171.27:1645
id 1645/1,len 95
*Dec 26 12:42:21.573: RADIUS: authenticator B6 8C 79 D9 91 0C 79 50 - CB B0
2A 87 2A 61 03 E8
*Dec 26 12:42:21.573: RADIUS: User-Name [1] 10 "vpnclient-user"
*Dec 26 12:42:21.573: RADIUS: User-Password [2] 18 *
*Dec 26 12:42:21.573: RADIUS: Calling-Station-Id [31] 14 "X.X.X.X"
*Dec 26 12:42:21.573: RADIUS: NAS-Port-Type [61] 6 Virtual [5]
*Dec 26 12:42:21.573: RADIUS: NAS-Port [5] 6 0
*Dec 26 12:42:21.573: RADIUS: NAS-Port-Id [87] 15 "X.X.X.X"
*Dec 26 12:42:21.573: RADIUS: NAS-IP-Address [4] 6 X.X.X.X
*Dec 26 12:42:21.573: RADIUS(00000013): Started 5 sec timeout
*Dec 26 12:42:21.671: RADIUS: Received from id 1645/1 X.X.X.X:1645, Access-Accept,
len 56
*Dec 26 12:42:21.671: RADIUS: authenticator E7 C1 B1 3D 04 59 48 22 - 4B 80 9D
1A 5E CA 0A A6
*Dec 26 12:42:21.671: RADIUS: User-Name [1] 10 "vpnclient-user"
*Dec 26 12:42:21.671: RADIUS: Class [25] 26
*Dec 26 12:42:21.671: RADIUS: 43 41 43 53 3A 41 43 53 2D 35 78 2F 31 37 33 32
[CACS:ACS-5x/1732]
*Dec 26 12:42:21.671: RADIUS: 37 32 35 30 33 2F 31 34 [ 72503/14]
*Dec 26 12:42:21.671: RADIUS(00000013): Received from id 1645/1
*Dec 26 12:42:21.672: ISAKMP:(35002):ISAKMP/author: Class attribute (len=24)
'CACS:ACS-5x/173272503/14'
*Dec 26 12:42:21.672: ISAKMP:(35002):AAA Authen: No group atts added
*Dec 26 12:42:21.672: ISAKMP: set new node 1771945814 to CONF_XAUTH
*Dec 26 12:42:21.672: ISAKMP:(35002): initiating peer config to X.X.X.X. ID =
1771945814
*Dec 26 12:42:21.672: ISAKMP:(35002): sending packet to X.X.X.X my_port 4500
```

```
peer_port 59464 (R) CONF_XAUTH
*Dec 26 12:42:21.672: ISAKMP:(35002):Sending an IKE IPv4 Packet.
*Dec 26 12:42:21.672: ISAKMP:(35002):Input = IKE_MSG_FROM_AAA,
IKE_AAA_CONT_LOGIN
*Dec 26 12:42:21.672: ISAKMP:(35002):Old State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT
New State = IKE_XAUTH_SET_SENT

*Dec 26 12:42:21.759: ISAKMP (35002): received packet from X.X.X.X dport 4500 sport
59464 Mgmt-intf (R) CONF_XAUTH
*Dec 26 12:42:21.759: ISAKMP:(35002):processing transaction payload from X.X.X.X.
message ID = 1771945814
*Dec 26 12:42:21.759: ISAKMP: Config payload ACK
*Dec 26 12:42:21.759: ISAKMP:(35002): (blank) XAUTH ACK Processed
*Dec 26 12:42:21.759: ISAKMP:(35002):deleting node 1771945814 error FALSE reason
"Transaction mode done"
*Dec 26 12:42:21.759: ISAKMP:(35002):Talking to a Unity Client
*Dec 26 12:42:21.759: ISAKMP:(35002):Input = IKE_MSG_FROM_PEER, IKE_CFG_ACK
*Dec 26 12:42:21.759: ISAKMP:(35002):Old State = IKE_XAUTH_SET_SENT New State =
IKE_P1_COMPLETE

*Dec 26 12:42:21.759: ISAKMP:(35002):Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
*Dec 26 12:42:21.759: ISAKMP:(35002):Old State = IKE_P1_COMPLETE New State =
IKE_P1_COMPLETE

*Dec 26 12:42:21.763: ISAKMP (35002): received packet from X.X.X.X dport 4500 sport
59464 Mgmt-intf (R) QM_IDLE
*Dec 26 12:42:21.763: ISAKMP: set new node 3504137478 to QM_IDLE
*Dec 26 12:42:21.763: ISAKMP:(35002):processing transaction payload from X.X.X.X.
message ID = 3504137478
*Dec 26 12:42:21.763: ISAKMP: Config payload REQUEST
*Dec 26 12:42:21.763: ISAKMP:(35002):checking request:
*Dec 26 12:42:21.763: ISAKMP: IP4_ADDRESS
*Dec 26 12:42:21.763: ISAKMP: IP4_NETMASK
*Dec 26 12:42:21.763: ISAKMP: IP4_DNS
*Dec 26 12:42:21.763: ISAKMP: IP4_NBNS
*Dec 26 12:42:21.763: ISAKMP: ADDRESS_EXPIRY
*Dec 26 12:42:21.763: ISAKMP: MODECFG_BANNER
*Dec 26 12:42:21.763: ISAKMP: MODECFG_SAVEPWD
*Dec 26 12:42:21.763: ISAKMP: DEFAULT_DOMAIN
*Dec 26 12:42:21.763: ISAKMP: SPLIT_INCLUDE
*Dec 26 12:42:21.763: ISAKMP: SPLIT_DNS
*Dec 26 12:42:21.763: ISAKMP: PFS
*Dec 26 12:42:21.763: ISAKMP: MODECFG_BROWSER_PROXY
*Dec 26 12:42:21.763: ISAKMP: BACKUP_SERVER
*Dec 26 12:42:21.763: ISAKMP: MODECFG_SMARTCARD_REMOVAL_DISCONNECT
*Dec 26 12:42:21.763: ISAKMP: APPLICATION_VERSION
*Dec 26 12:42:21.763: ISAKMP: Client Version is : Cisco Systems VPN Client
5.0.07.0440:WinNTp
*Dec 26 12:42:21.763: ISAKMP: FW_RECORD
*Dec 26 12:42:21.763: ISAKMP: MODECFG_HOSTNAME
*Dec 26 12:42:21.763: ISAKMP:(35002):ISAKMP/author: setting up the authorization
request for vpnclient
*Dec 26 12:42:21.763: AAA/AUTHOR (0x13): Pick method list 'login_local'
*Dec 26 12:42:21.763: ISAKMP/author: Author request for group vpnclientsuccessfully
sent to AAA
*Dec 26 12:42:21.763: ISAKMP:(35002):Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST
*Dec 26 12:42:21.763: ISAKMP:(35002):Old State = IKE_P1_COMPLETE New State =
IKE_CONFIG_AUTHOR_AAA_AWAIT

*Dec 26 12:42:21.764: ISAKMP:(0):ISAKMP/author: received callback from AAA
AAA/AUTHOR/IKE: Processing AV tunnel-password
AAA/AUTHOR/IKE: Processing AV default-domain
AAA/AUTHOR/IKE: Processing AV addr-pool
AAA/AUTHOR/IKE: Processing AV dns-servers
```

```
AAA/AUTHOR/IKE: Processing AV wins-servers
*Dec 26 12:42:21.764:
AAA/AUTHOR/IKE: no WINS addresses
AAA/AUTHOR/IKE: Processing AV route-metric
AAA/AUTHOR/IKE: Processing AV max-users
AAA/AUTHOR/IKE: Processing AV max-logins
AAA/AUTHOR/IKE: Processing AV netmask
*Dec 26 12:42:21.764: ISAKMP:(35002):ISAKMP/author: No Class attributes
*Dec 26 12:42:21.764: ISAKMP:(35002):attributes sent in message:
*Dec 26 12:42:21.764: Address: 0.2.0.0
*Dec 26 12:42:21.766: ISAKMP:(35002):allocating address X.X.X.X
*Dec 26 12:42:21.766: ISAKMP: Sending private address: X.X.X.X
*Dec 26 12:42:21.766: ISAKMP: Sending subnet mask: 255.255.255.0
*Dec 26 12:42:21.766: ISAKMP: Sending IP4_DNS server address: X.X.X.X
*Dec 26 12:42:21.766: ISAKMP: Sending ADDRESS_EXPIRY seconds left to use the
address: 86392
*Dec 26 12:42:21.766: ISAKMP: Sending save password reply value 0
*Dec 26 12:42:21.766: ISAKMP: Sending DEFAULT_DOMAIN default domain name:
vpncient.cisco.com
*Dec 26 12:42:21.766: ISAKMP: Sending smartcard_removal_disconnect reply
value 0
*Dec 26 12:42:21.766: ISAKMP: Sending APPLICATION_VERSION string: Cisco IOS Software,
IOS-XE Software (X86_64_LINUX_IOSD-ADVENTERPRISEK9-M), Version 15.2(4)S,
RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2012 by Cisco Systems, Inc.
Compiled Mon 23-Jul-12 20:02 by mcpre
*Dec 26 12:42:21.766: ISAKMP (35002): Unknown Attr: MODECFG_HOSTNAME (0x700A)
*Dec 26 12:42:21.766: ISAKMP:(35002): responding to peer config from 72.163.84.76.
ID = 3504137478
*Dec 26 12:42:21.766: ISAKMP: Marking node 3504137478 for late deletion
*Dec 26 12:42:21.766: ISAKMP:(35002): sending packet to X.X.X.X my_port 4500 peer_port
59464 (R) CONF_ADDR
*Dec 26 12:42:21.766: ISAKMP:(35002):Sending an IKE IPv4 Packet.
*Dec 26 12:42:21.766: ISAKMP:(35002):Talking to a Unity Client
*Dec 26 12:42:21.766: ISAKMP:(35002):Input = IKE_MESG_FROM_AAA, IKE_AAA_GROUP_ATTR
*Dec 26 12:42:21.766: ISAKMP:(35002):Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New
State = IKE_P1_COMPLETE
*Dec 26 12:42:21.766: ISAKMP:FSM error - Message from AAA grp/user.
*Dec 26 12:42:21.766: ISAKMP:(35002):Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE
*Dec 26 12:42:21.766: ISAKMP:(35002):Old State = IKE_P1_COMPLETE New State =
IKE_P1_COMPLETE
```

## Configuración del servidor de RADIUS

Complete estos pasos para configurar al servidor de RADIUS.

1. Configure al usuario del **nombre de grupo**:

2. Configure un perfil de la autorización para dar todos los pares del valor de atributo (AV):

3. Configure una política de acceso para permitir la conexión y el uso que perfilan:

## Troubleshooting

Los ciertos comandos show de los soportes de la [herramienta del Output Interpreter](#) ([clientes registrados solamente](#)). Utilice la herramienta del Output Interpreter para ver una análisis de la salida del comando show.

Nota: Consulte [Información Importante sobre Comandos de Debug](#) antes de usar un comando debug.

Estos debugs se habilitan en la cabecera VPN:

### Debugs del Internet Security Association and Key Management Protocol (ISAKMP)

```
debug crypto isakmp
```

### Debugs AAA

```
debug aaa authentication  
debug aaa authorization  
debug aaa accounting  
debug radius authentication
```