

EAP-FAST用在自治接入点配置示例的内部RADIUS服务器

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简介

本文描述如何配置自治接入点作为通过安全协议的RADIUS服务器(EAP-FAST)执行思科扩展验证灵活协议验证客户端authentication的与最新的Cisco IOS版本(15.2JB)，更新有GUI界面外观。

通常外部RADIUS服务器用于为了验证用户。在某些情况下，这不是一个可行的解决方案。在这些情况下，接入点(AP)能作为RADIUS服务器。在这种情况下，用户验证在接入点配置的本地数据库。此功能称为本地 RADIUS 服务器功能。您能也做在本地RADIUS服务器在AP以为特色的网络使用的其他接入点。

[先决条件](#)

[要求](#)

Cisco 建议您在尝试进行此配置之前了解下列主题：

- Cisco IOS GUI或CLI
- 在可扩展的认证协议(EAP)后的概念
- 服务集标识(SSID)配置
- RADIUS

使用的组件

运行Cisco IOS Release 15.2JB并且作为内部RADIUS服务器的本文档中的信息根据3600个AP。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

配置

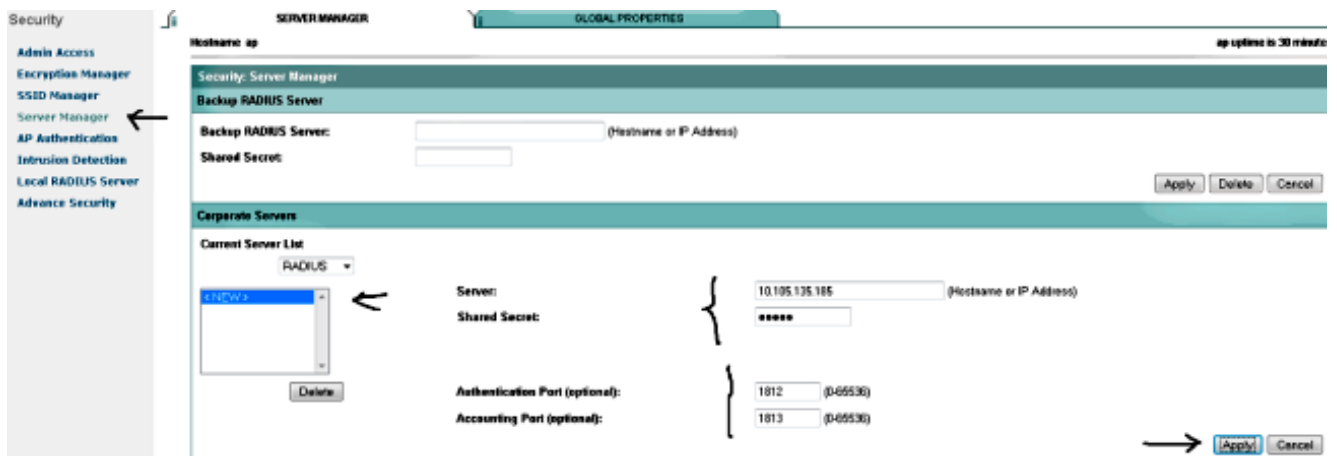
与GUI的配置

1. 为了配置AP作为本地RADIUS服务器，请导航给AP GUI > Security > Server管理器，并且输入这些详细信息：

主机名或IP地址 共享秘密 验证端口 帐户端口

Note:对于验证和计费端口，此示例使用1812和1813，分别。然而，可能也使用1645和1646。

单击 **Apply**。

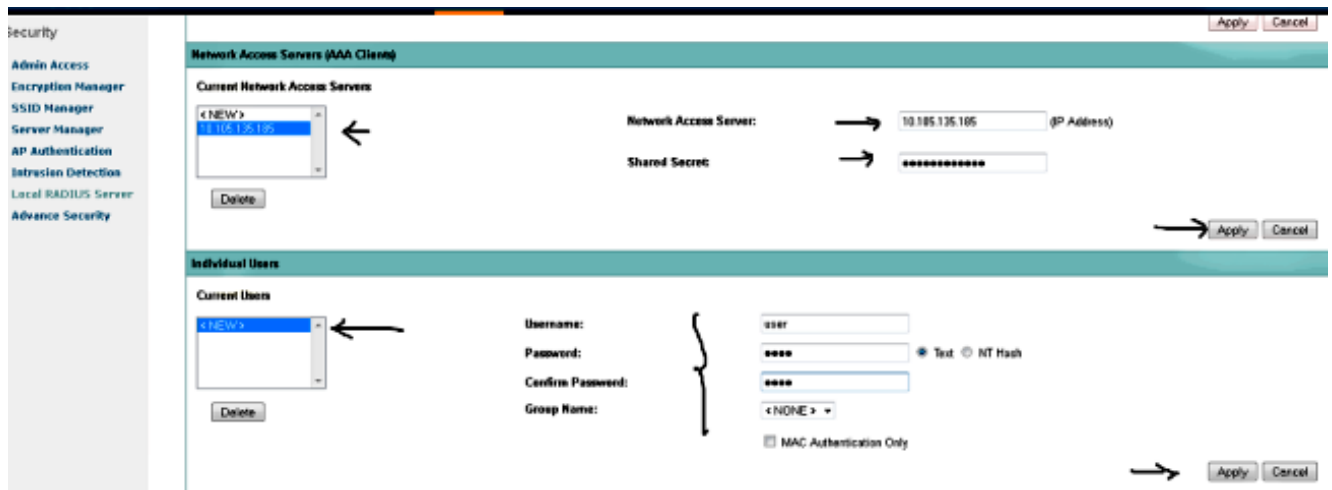


2. 导航对在AP的本地RADIUS服务器配置，点击常规设置选项卡，并且输入这些详细信息：

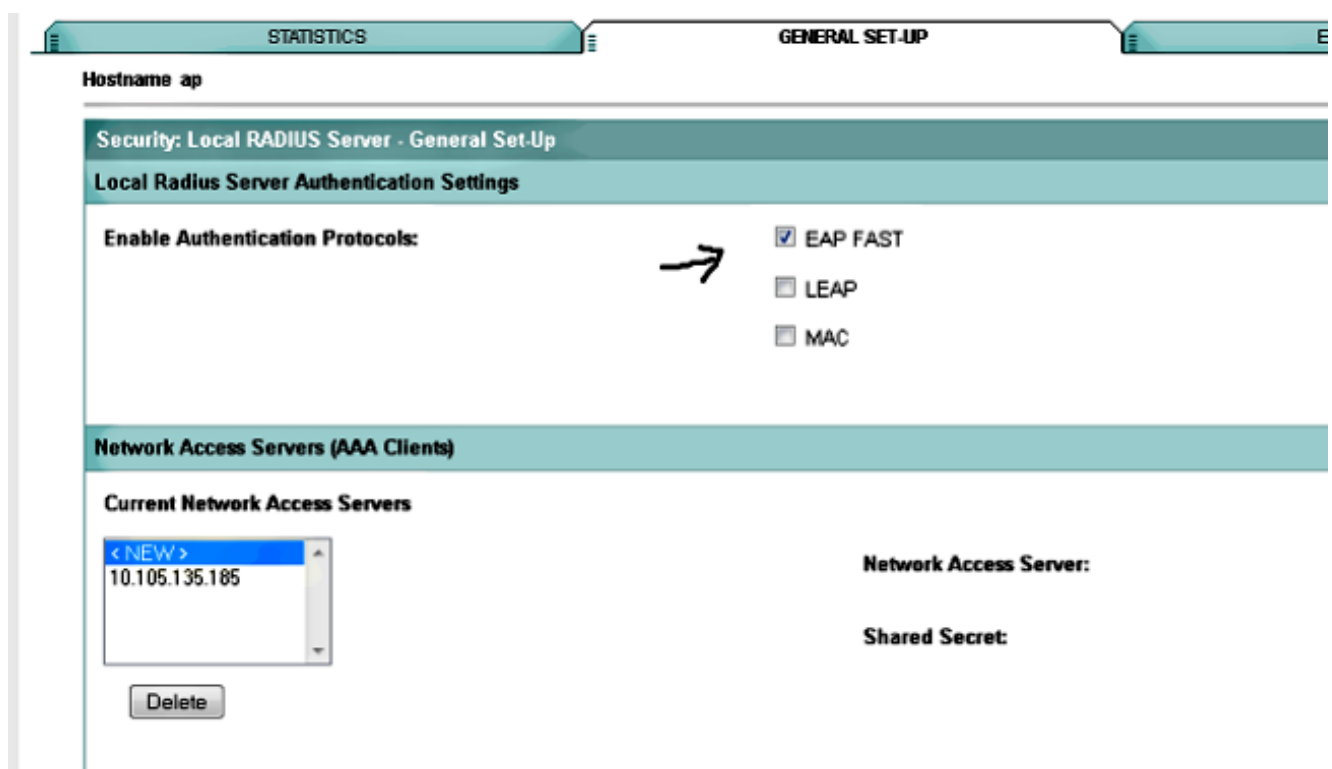
网络接入服务器(NAS)用AP (网桥组虚拟接口(BVI) int IP)的IP地址 共享秘密

单击 **Apply**。

创建有用户名和密码的个人用户。如果组名要求，则请配置它(此示例不使用一个组名)。

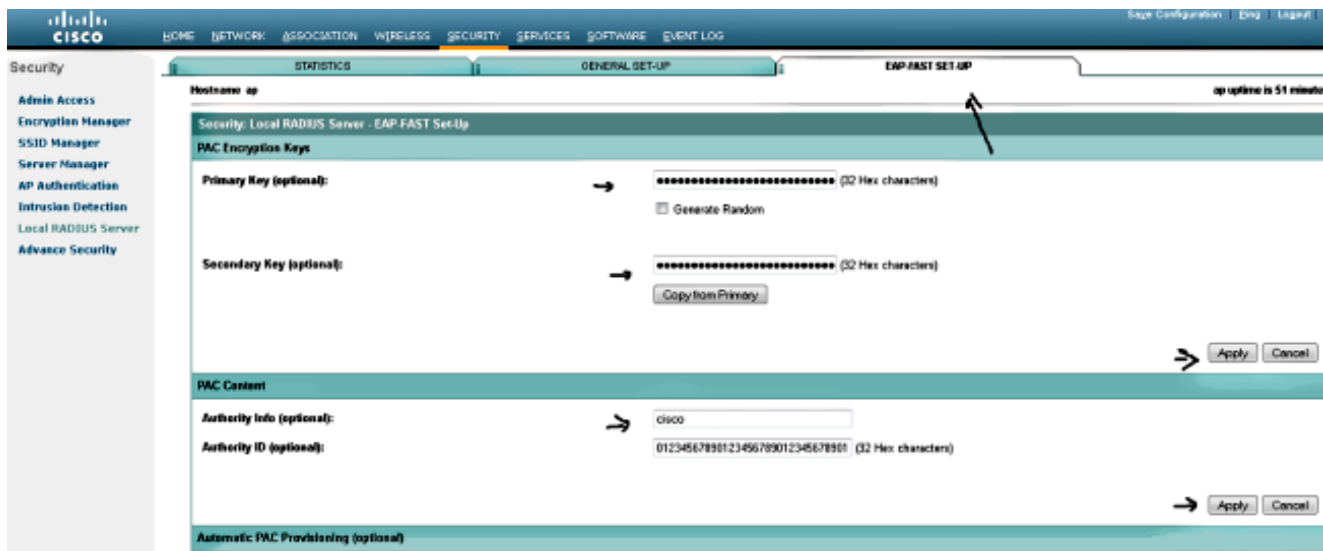


3. 非选定LEAP和MAC复选框。

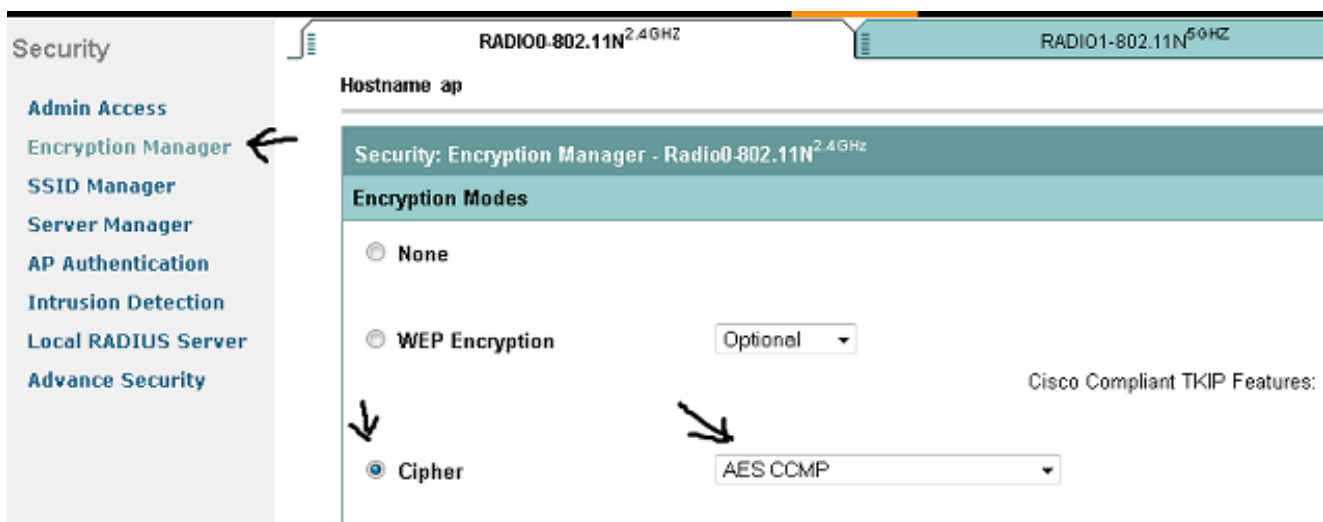


4. 点击EAP-FAST设置选项卡，并且输入PAC加密密钥和PAC内容的详细信息。

Note: 因为有32个六角形的字符，此示例使用零至九四次。

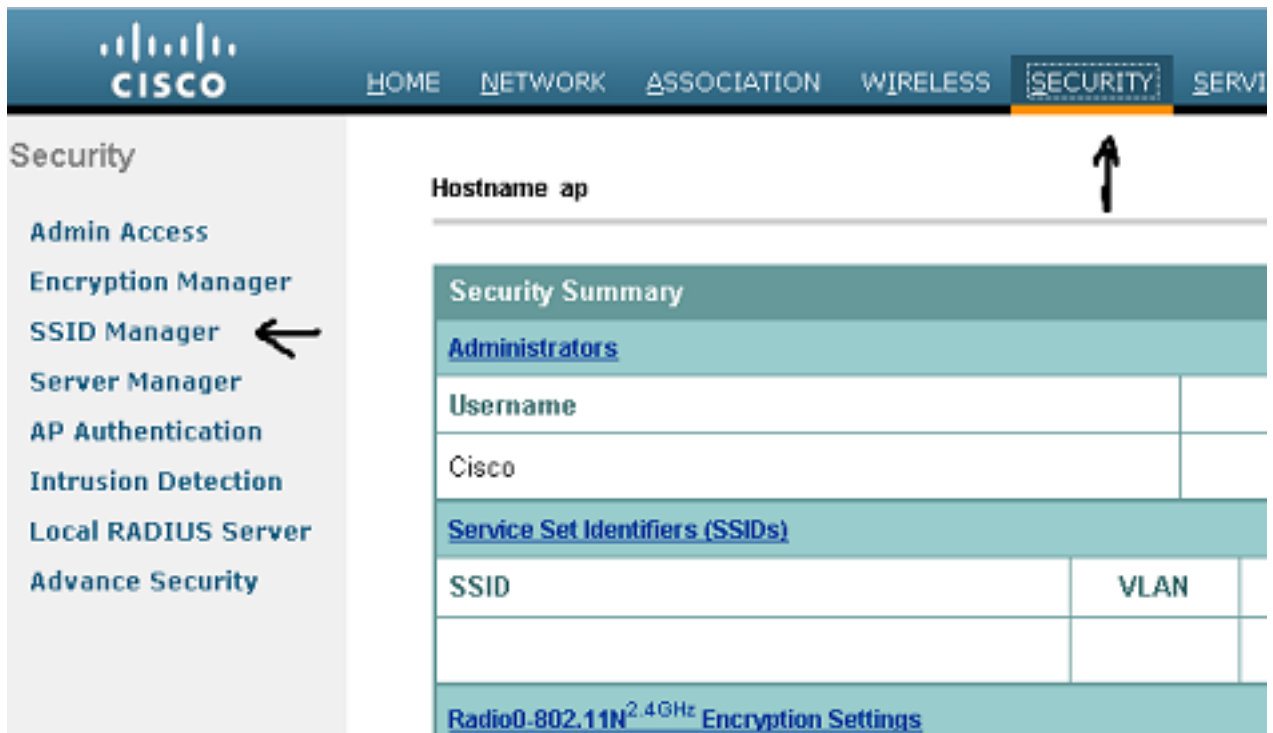


5. 导航给加密管理器，配置有AES CCMP的密码器作为加密，并且单击应用所有无线电或需要的无线电。

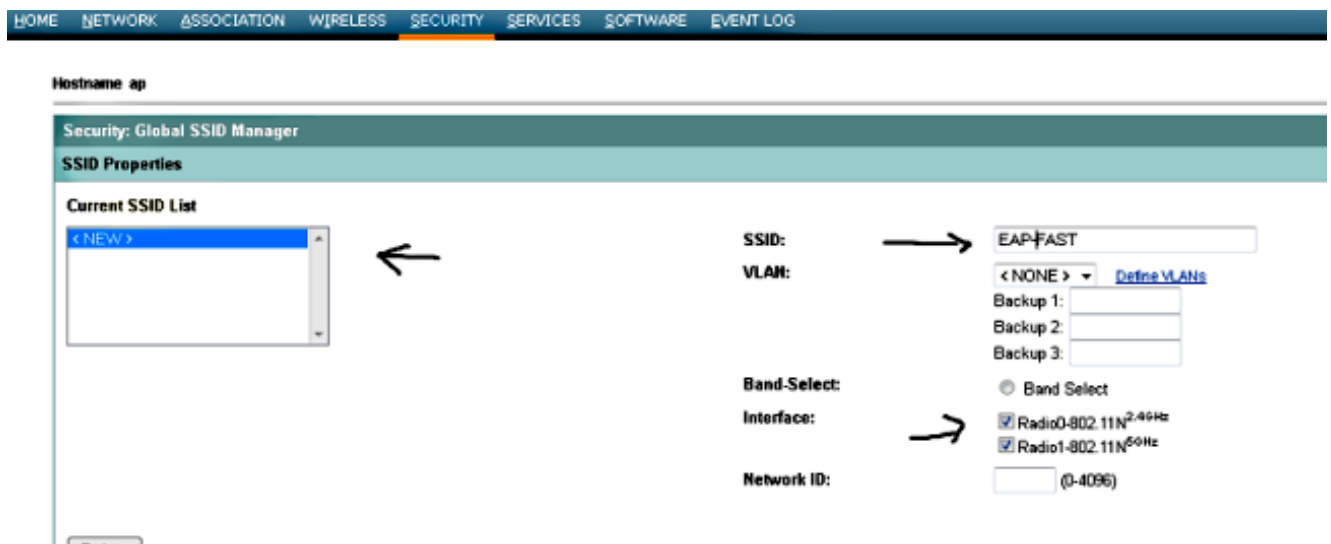


配置SSID

1. 导航给安全> SSID管理器，并且单击创建新。



2. 输入详细信息，并且单击应用。



3. 在客户端验证Settings屏幕，请检查Open Authentication复选框，并且选择与从下拉菜单的EAP。检查网络EAP复选框，并且选择从下拉菜单的RADIUS服务器。这应该是您配置作为在服务器管理器和本地RADIUS服务器页的AAA的AP IP地址。

Client Authentication Settings

Methods Accepted:

Open Authentication: with EAP
 Shared Authentication: < NO ADDITION >
 Network EAP: < NO ADDITION >

Server Priorities:

EAP Authentication Servers

Use Defaults [Define Defaults](#)
 Customize
 Priority 1: 10.105.135.185
 Priority 2: < NONE >
 Priority 3: < NONE >

MAC Authentication Servers

Use Defaults [Define Defaults](#)
 Customize
 Priority 1: < NONE >
 Priority 2: < NONE >
 Priority 3: < NONE >

配置无线受保护的访问版本2 (WPAv2)如必须

1. 在客户端验证密钥管理屏幕，请选择必须从密钥管理下拉菜单。检查Enable (event) WPA复选框，并且选择从下拉菜单的WPAv2。

Client Authenticated Key Management

Key Management: Mandatory
 CCKM
 Enable WPA: WPAv2
 ASCII Hexadecimal

WPA Pre-shared Key:

2. 单击页底部的 Apply。为了广播SSID，点击单个SSID单选按钮，选择从下拉菜单的SSID，和单击应用。

Multiple BSSID Beacon Settings

Multiple BSSID Beacon

Set SSID as Guest Mode
 Set Data Beacon Rate (DTIM): DISABLED (1-100)

Apply Cancel

Guest Mode/Infrastructure SSID Settings

Radio0 002.11N^{2.4GHz}:

Set Beacon Mode: Single BSSID Set Single Guest Mode SSID: EAPFAST
 Multiple BSSID
 Set Infrastructure SSID: < NONE > Force Infrastructure Devices to associate only to this SSID

Radio1 002.11N^{2.4GHz}:

Set Beacon Mode: Single BSSID Set Single Guest Mode SSID: EAPFAST
 Multiple BSSID
 Set Infrastructure SSID: < NONE > Force Infrastructure Devices to associate only to this SSID

Apply Cancel

3. 导航对网络，并且启用2.4 GHz和5 GHz的无线电。保证无线电是正在运行的。

CLI命令为配置

```
show run
```

```
Building configuration...
```

```
Current configuration : 3204 bytes
```

```
!  
! Last configuration change at 01:11:36 UTC Mon Mar 1 1993  
version 15.2  
no service pad  
service timestamps debug datetime msec  
service timestamps log datetime msec  
service password-encryption  
!  
hostname ap  
!  
!  
logging rate-limit console 9  
enable secret 5 $1$06l4$E2pi.VeGTKUxxiwPScUEp.  
!  
aaa new-model  
!  
!  
aaa group server radius rad_eap  
  server 10.105.135.185 auth-port 1812 acct-port 1813  
!  
aaa group server radius rad_mac  
!  
aaa group server radius rad_acct  
!  
aaa group server radius rad_admin  
!  
aaa group server tacacs+ tac_admin  
!  
aaa group server radius rad_pmip  
!  
aaa group server radius dummy  
!  
aaa group server radius rad_eap1  
  server 10.105.135.185 auth-port 1812 acct-port 1813  
!  
aaa authentication login eap_methods group rad_eap  
aaa authentication login mac_methods local  
aaa authentication login eap_methods1 group rad_eap1  
aaa authorization exec default local  
aaa accounting network acct_methods start-stop group rad_acct  
!  
!  
!  
!  
!  
aaa session-id common  
no ip routing  
no ip cef  
!  
!  
!  
dot11 syslog  
!
```

```
dot11 ssid EAPFAST
  authentication open eap eap_methods1
  authentication network-eap eap_methods1
  authentication key-management wpa version 2
  guest-mode
!
!
crypto pki token default removal timeout 0
!
!
username Cisco password 7 01300F175804
!
!
!
class-map match-all _class_voice0
  match ip dscp ef
  class-map match-all _class_voice1
  match ip dscp default
!
!
policy-map voice
  class _class_voice0
  set cos 6
  class _class_voice1
  set cos 6
!
bridge irb
!
!
!
interface Dot11Radio0
  no ip address
  no ip route-cache
  !
  encryption mode ciphers aes-ccm
  !
  ssid EAPFAST
  !
  antenna gain 0
  stbc
  power local 14
  station-role root
  bridge-group 1
  bridge-group 1 subscriber-loop-control
  bridge-group 1 spanning-disabled
  bridge-group 1 block-unknown-source
  no bridge-group 1 source-learning
  no bridge-group 1 unicast-flooding
!
interface Dot11Radio1
  no ip address
  no ip route-cache
  !
  encryption mode ciphers aes-ccm
  !
  ssid EAPFAST
  !
  antenna gain 0
  dfs band 3 block
  stbc
  channel dfs
  station-role root
  bridge-group 1
  bridge-group 1 subscriber-loop-control
```



```

bridge-group 1 spanning-disabled
bridge-group 1 block-unknown-source
no bridge-group 1 source-learning
no bridge-group 1 unicast-flooding
!
interface GigabitEthernet0
no ip address
no ip route-cache
duplex auto
speed auto
bridge-group 1
bridge-group 1 spanning-disabled
no bridge-group 1 source-learning
!
interface BVI1
ip address 10.105.135.185 255.255.255.128
no ip route-cache
!
ip forward-protocol nd
ip http server
no ip http secure-server
ip http help-path http://www.cisco.com/warp/public/779/smbiz/prodconfig/help/eag
ip radius source-interface BVI1
!
radius-server local
eapfast authority id 01234567890123456789012345678901
eapfast authority info cisco
eapfast server-key primary 7 E1F54D861DC7150A7B949E5B4E630D8E5B
eapfast server-key secondary 7 E7281DB670D36C052F60D36337436ABA13
nas 10.105.135.185 key 7 01100F175804
user user ntnash 7 075A76681B514A2436465D28517D7A71786114033753342156777C79030
D2D5448
!
radius-server attribute 32 include-in-access-req format %h
radius-server host 10.105.135.185 auth-port 1812 acct-port 1813 key 7 045802150C2E
radius-server vsa send accounting
!
bridge 1 route ip
!
!
!
line con 0
line vty 0 4
transport input all
!
end

ap#

```

验证

如果连接给客户端，则这是在AP显示在成功认证以后的日志：

```

show run
Building configuration...

Current configuration : 3204 bytes
!
! Last configuration change at 01:11:36 UTC Mon Mar 1 1993
version 15.2

```

```
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname ap
!
!
logging rate-limit console 9
enable secret 5 $1$06l4$E2pi.VeGTKUxxiwPScUEp.
!
aaa new-model
!
!
aaa group server radius rad_eap
  server 10.105.135.185 auth-port 1812 acct-port 1813
!
aaa group server radius rad_mac
!
aaa group server radius rad_acct
!
aaa group server radius rad_admin
!
aaa group server tacacs+ tac_admin
!
aaa group server radius rad_pmip
!
aaa group server radius dummy
!
aaa group server radius rad_eap1
  server 10.105.135.185 auth-port 1812 acct-port 1813
!
aaa authentication login eap_methods group rad_eap
aaa authentication login mac_methods local
aaa authentication login eap_methods1 group rad_eap1
aaa authorization exec default local
aaa accounting network acct_methods start-stop group rad_acct
!
!
!
!
!
aaa session-id common
no ip routing
no ip cef
!
!
!
dot11 syslog
!
dot11 ssid EAPFAST
  authentication open eap eap_methods1
  authentication network-eap eap_methods1
  authentication key-management wpa version 2
  guest-mode
!
!
crypto pki token default removal timeout 0
!
!
!
username Cisco password 7 01300F175804
!
!
!
```

```

class-map match-all _class_voice0
  match ip dscp ef
  class-map match-all _class_voice1
  match ip dscp default
!
!
policy-map voice
  class _class_voice0
  set cos 6
  class _class_voice1
  set cos 6
!
bridge irb
!
!
!
interface Dot11Radio0
  no ip address
  no ip route-cache
  !
  encryption mode ciphers aes-ccm
  !
  ssid EAPFAST
  !
  antenna gain 0
  stbc
  power local 14
  station-role root
  bridge-group 1
  bridge-group 1 subscriber-loop-control
  bridge-group 1 spanning-disabled
  bridge-group 1 block-unknown-source
  no bridge-group 1 source-learning
  no bridge-group 1 unicast-flooding
!
interface Dot11Radio1
  no ip address
  no ip route-cache
  !
  encryption mode ciphers aes-ccm
  !
  ssid EAPFAST
  !
  antenna gain 0
  dfs band 3 block
  stbc
  channel dfs
  station-role root
  bridge-group 1
  bridge-group 1 subscriber-loop-control
  bridge-group 1 spanning-disabled
  bridge-group 1 block-unknown-source
  no bridge-group 1 source-learning
  no bridge-group 1 unicast-flooding
!
interface GigabitEthernet0
  no ip address
  no ip route-cache
  duplex auto
  speed auto
  bridge-group 1
  bridge-group 1 spanning-disabled
  no bridge-group 1 source-learning
!

```

```

interface BVI1
 ip address 10.105.135.185 255.255.255.128
 no ip route-cache
 !
 ip forward-protocol nd
 ip http server
 no ip http secure-server
 ip http help-path http://www.cisco.com/warp/public/779/smbiz/prodconfig/help/eag
 ip radius source-interface BVI1
 !
 radius-server local
 eapfast authority id 01234567890123456789012345678901
 eapfast authority info cisco
 eapfast server-key primary 7 E1F54D861DC7150A7B949E5B4E630D8E5B
 eapfast server-key secondary 7 E7281DB670D36C052F60D36337436ABA13
 nas 10.105.135.185 key 7 01100F175804
 user user ntnash 7 075A76681B514A2436465D28517D7A71786114033753342156777C79030
 D2D5448
 !
 radius-server attribute 32 include-in-access-req format %h
 radius-server host 10.105.135.185 auth-port 1812 acct-port 1813 key 7 045802150C2E
 radius-server vsa send accounting
 !
 bridge 1 route ip
 !
 !
 !
 line con 0
 line vty 0 4
 transport input all
 !
 end

ap#

```

故障排除

完成这些步骤为了排除故障此配置。

1. 为了排除无线电频率(RF)发出的可能性请防止成功认证，设置在SSID的方法打开为了临时地禁用验证。
2. 从在**SSID管理器**页的GUI，请不选定**Network-EAP复选框**，并且检查开放。
3. 从CLI，请勿请使用**authentication open**命令和**authentication network-eap eap_methods**。如果客户端成功关联，则 RF 与关联问题无关。
4. 验证所有共享密钥口令是否同步。这些线路必须包含同样共享的加密口令：
RADIUS服务器主机x.x.x.x auth端口x acct-port x关键<shared_secret>nas x.x.x.x密钥<shared_secret>
5. 删除所有用户组和他们相关的配置。有时冲突发生在域的AP定义的用户组和用户组之间。

debug 命令

Note:使用 debug 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

这是有用的调试指令列表。

- **调试全dot11 aaa的验证器**此调试表示多种协商，客户端经历，当客户端通过802.1x或EAP进程联合并且验证从验证器(AP)的角度。这个debug在Cisco IOS软件版本12.2(15)JA介绍过。此命令废弃**debug dot11 aaa dot1x all**在这及以后版本中。

```
*Mar 1 00:26:03.097: dot11_auth_add_client_entry:
Create new client 0040.96af.3e93 for application 0x1
*Mar 1 00:26:03.097: dot11_auth_initialize_client:
0040.96af.3e93 is added to the client list for application 0x1
-----
Lines Omitted for simplicity -----
*Mar 1 00:26:03.098: dot11_auth_dot1x_start:
in the dot11_auth_dot1x_start

*Mar 1 00:26:03.132: dot11_auth_dot1x_run_rfsm:
Executing Action(CLIENT_WAIT,EAP_START) for 0040.96af.3e93
*Mar 1 00:26:03.132: dot11_auth_dot1x_send_id_req_to_client:
Sending identity request to 0040.96af.3e93(client)

*Mar 1 00:26:03.133: *Mar 1 00:26:03.099:
dot11_auth_dot1x_send_id_req_to_client:
Client 0040.96af.3e93 timer started for 30 seconds
*Mar 1 00:26:03.132: dot11_auth_parse_client_pak:
Received EAPOL packet from 0040.96af.3e93
-----
Lines Omitted-----
*Mar 1 00:26:03.138: EAP code: 0x2 id: 0x1 length:
0x000A type: 0x1
01805BF0: 0100000A 0201000A 01757365 7231
.....user1(User Name of the client)

*Mar1 00:26:03.146: dot11_auth_dot1x_run_rfsm:
Executing Action(CLIENT_WAIT,CLIENT_REPLY) for 0040.96af.3e93
*Mar1 00:26:03.147: dot11_auth_dot1x_send_response_to_server:
Sending client 0040.96af.3e93 data toserver
*Mar1 00:26:03.147: dot11_auth_dot1x_send_response_to_server:
Started timer server_timeout 60 seconds
-----
Lines Omitted-----
*Mar1 00:26:03.150: dot11_auth_dot1x_parse_aaa_resp:
Received server response:GET_CHALLENGE_RESPONSE
*Mar1 00:26:03.150: dot11_auth_dot1x_parse_aaa_resp:
found session timeout 10 sec

*Mar 1 00:26:03.150: dot11_auth_dot1x_run_rfsm:
Executing Action(SERVER_WAIT,SERVER_REPLY) for 0040.96af.3e93
*Mar 1 00:26:03.150: dot11_auth_dot1x_send_response_to_client:
Forwarding server message to client 0040.96af.3e93
-----
Lines Omitted-----
*Mar 1 00:26:03.151: dot11_auth_send_msg:
Sending EAPOL to requestor
*Mar 1 00:26:03.151: dot11_auth_dot1x_send_response_to_client:
Started timer client_timeout 10 seconds
*Mar 1 00:26:03.166: dot11_auth_parse_client_pak:
Received EAPOL packet(User Credentials) from 0040.96af.3e93
*Mar 1 00:26:03.166: EAP code: 0x2 id: 0x11 length: 0x0025
```

```
type: 0x1101805F90: 01000025 02110025...%...%01805FA0:
11010018 7B75E719 C5F3575E EFF64B27 ....{ug.EsW^ovK'
```

```
Executing Action(CLIENT_WAIT,CLIENT_REPLY) for 0040.96af.3e93
*Mar 1 00:26:03.186: dot11_auth_dot1x_send_response_to_server:
Sending client 0040.96af.3e93 data
(User Credentials) to server
*Mar 1 00:26:03.186: dot11_auth_dot1x_send_response_to_server:
Started timer server_timeout 60 seconds
-----
Lines Omitted-----
*Mar 1 00:26:03.196: dot11_auth_dot1x_parse_aaa_resp:
Received server response: PASS
```

```
*Mar 1 00:26:03.197: dot11_auth_dot1x_run_rfsm:
Executing Action(SERVER_WAIT,SERVER_PASS) for 0040.96af.3e93
*Mar 1 00:26:03.197: dot11_auth_dot1x_send_response_to_client:
Forwarding server message(Pass Message) to client
-----
Lines Omitted-----
*Mar 1 00:26:03.198: dot11_auth_send_msg:
Sending EAPOL to requestor
*Mar 1 00:26:03.199: dot11_auth_dot1x_send_response_to_client:
Started timer client_timeout 30 second
*Mar 1 00:26:03.199: dot11_auth_send_msg:
client authenticated 0040.96af.3e93,
node_type 64 for application 0x1
*Mar 1 00:26:03.199: dot11_auth_delete_client_entry:
0040.96af.3e93 is deleted for application 0x1
*Mar 1 00:26:03.200: %DOT11-6-ASSOC:
Interface Dot11Radio0, Station Station Name
0040.96af.3e93 Associated KEY_MGMT[NONE]
```

- debug radius authentication---此调试显示服务器和客户端之间的RADIUS协商，在这种情况下，二者都是AP。
- debug radius local-server client -此调试从RADIUS服务器的角度显示客户端的验证。

```
*Mar 1 00:30:00.742: RADIUS(0000001A):
SendAccess-Request(Client's User Name)
to 10.77.244.194:1812(Local Radius Server)

id 1645/65, len 128
*Mar 1 00:30:00.742: RADIUS:
User-Name [1] 7 "user1"
*Mar 1 00:30:00.742: RADIUS:
Called-Station-Id [30] 16 "0019.a956.55c0"
*Mar 1 00:30:00.743: RADIUS:
Calling-Station-Id [31] 16 "0040.96af.3e93" (Client)

*Mar 1 00:30:00.743: RADIUS:
Service-Type [6] 6 Login [1]
*Mar 1 00:30:00.743: RADIUS:
Message-Authenticato[80]
*Mar 1 00:30:00.743: RADIUS:
```

```
23 2E F4 42 A4 A3 72 4B 28 44 6E 7A 58 CA 8F 7B [#.?B??rK(DnzX??{]
*Mar 1 00:30:00.743: RADIUS:
EAP-Message [79] 12
*Mar 1 00:30:00.743:
RADIUS: 02 02 00 0A 01 75 73 65 72 31
[?????user1]
*Mar 1 00:30:00.744: RADIUS:
NAS-Port-Type [61] 6 802.11 wireless
-----
Lines Omitted For Simplicity-----
*Mar 1 00:30:00.744: RADIUS:
NAS-IP-Address [4] 6 10.77.244.194(Access Point IP)
*Mar 1 00:30:00.744: RADIUS: Nas-Identifier [32] 4 "ap"
-----
Lines Omitted-----
*Mar 1 00:30:00.745: RADIUS:
Received from id 1645/65 10.77.244.194:1812, Access-Challenge, len 117
*Mar 1 00:30:00.746: RADIUS:
75 73 65 72 31 [user1]
*Mar 1 00:30:00.746: RADIUS:
Session-Timeout [27] 6 10
*Mar 1 00:30:00.747: RADIUS: State [24] 50
*Mar 1 00:30:00.747: RADIUS:
BF 2A A0 7C 82 65 76 AA 00 00 00 00 00 00 00 00
[?*?|?ev?????????]
-----
Lines Omitted for simplicity -----
*Mar 1 00:30:00.756:
RADIUS/ENCODE(0000001A):Orig. component type = DOT11
*Mar 1 00:30:00.756: RADIUS: AAA Unsupported Attr: ssid [264] 5
*Mar 1 00:30:00.756: RADIUS: 63 69 73 [cis]
*Mar 1 00:30:00.756: RADIUS: AAA Unsupported Attr: interface [157] 3
*Mar 1 00:30:00.756: RADIUS: 32 [2]
*Mar 1 00:30:00.757: RADIUS(0000001A): Config NAS IP: 10.77.244.194
*Mar 1 00:30:00.757: RADIUS/ENCODE(0000001A): acct_session_id: 26
*Mar 1 00:30:00.757: RADIUS(0000001A): Config NAS IP: 10.77.244.194

*Mar 1 00:30:00.779: RADIUS(0000001A):
Send Access-Request to 10.77.244.194:1812 id 1645/67, len 189
*Mar 1 00:30:00.779: RADIUS:
authenticator B0 15 3C C1 BC F6 31 85 - 66 5D 41 F9 2E B4 48 7F
*Mar 1 00:30:00.779: RADIUS: User-Name [1] 7 "user1"
*Mar 1 00:30:00.780: RADIUS: Framed-MTU [12] 6 1400
*Mar 1 00:30:00.780: RADIUS: Called-Station-Id [30] 16"0019.a956.55c0"
*Mar 1 00:30:00.780: RADIUS: Calling-Station-Id [31] 16"0040.96af.3e93"
*Mar 1 00:30:00.758: RADIUS:
92 D4 24 49 04 C2 D2 0A C3 CE E9 00 6B F1 B2 AF [??$I????????k???]
*Mar 1 00:30:00.759: RADIUS: EAP-Message [79] 39
*Mar 1 00:30:00.759: RADIUS:
02 17 00 25 11 01 00 18 05 98 8B BE 09 E9 45 E2 [?????????????E?]
*Mar 1 00:30:00.759: RADIUS:
73 5D 33 1D F0 2F DB 09 50 AF 38 9F F9 3B BD D4 [s]3??/?P?8??;??]
*Mar 1 00:30:00.759: RADIUS:
75 73 65 72 31 [user1]
-----
Lines Omitted-----
*Mar 1 00:30:00.781: RADIUS: State [24] 50 RADIUS:
NAS-IP-Address [4] 6 10.77.244.194
*Mar 1 00:30:00.783: RADIUS: Nas-Identifier [32] 4 "ap"

*Mar 1 00:30:00.822: RADIUS:
```

```

Received from id 1645/67 10.77.244.194:1812, Access-Accept, len 214
*Mar 1 00:30:00.822:
RADIUS: authenticator 10 0C B6 EE 7A 96 3A 46 - 36 49 FC D3 7A F4 42 2A
-----
Lines Omitted-----
*Mar 1 00:30:00.823: RADIUS: 75 73 65 72 31 [user1]
*Mar 1 00:30:00.823: RADIUS: Vendor, Cisco [26] 59
*Mar 1 00:30:00.823: RADIUS:
Cisco AVpair [1] 53 "EAP-FAST:session-key=?+*ve=];q,oi[d6|-z."
*Mar 1 00:30:00.823:
RADIUS: User-Name [1] 28 "user1 *Mar 1 00:30:00.824: RADIUS:
Message-Authenticato[80] 18
*Mar 1 00:30:00.824: RADIUS:
06 2D BA 93 10 C0 91 F8 B4 B8 A4 00 82 0E 11 36
[?-?????????????6]
*Mar 1 00:30:00.826: RADIUS/DECODE: EAP-Message fragments,
37, total 37 bytes
*Mar 1 00:30:00.826: found leap session key
*Mar 1 00:30:00.830: %DOT11-6-ASSOC:
Interface Dot11Radio0, Station Station Name
Associated KEY_MGMT[NONE]

```

- **debug radius local-server packets** -此调试显示被执行和从RADIUS服务器的角度的所有进程。