

配置 Cisco Access Registrar 与 LEAP

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简介

Cisco 网络服务访问登记 (AR) 3.0 支持小型可扩展认证协议 (LEAP) (Cisco 无线)。本文显示如何配置无线 Aironet 客户端工具和 Cisco Aironet 340, 350 或者 1200 系列接入点 (AP) LEAP 认证的 Cisco AR。

先决条件

要求

本文档没有任何特定的前提条件。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- Cisco Aironet® 340, 350 或者 1200 系列接入点
- AP 固件 11.21 或以上 Cisco LEAP 的
- Cisco Aironet 340 或 350 系列网络接口界面卡 (NIC)
- 固件版本 4.25.30 或以上 Cisco LEAP 的
- 网络驱动程序接口技术规范 (NDIS) 8.2.3 或以上 Cisco LEAP 的
- Aironet 客户端工具 (ACU) 版本 5.02 或以上
- Cisco Access Registrar 3.0 或以后要求运行和验证 Cisco LEAP 和 MAC 验证请求

本文档中的信息都是基于特定实验室环境中的设备创建的。本文档中使用的所有设备最初均采用原

始（默认）配置。如果您是在真实网络上操作，请确保您在使用任何命令前已经了解其潜在影响。

[规则](#)

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

[配置 EAP-Cisco 无线 \(CISCO LEAP\)](#)

此部分包括Cisco LEAP基本配置在思科AR服务器、AP和多种客户端的。

[逐步指导](#)

遵从这些说明配置LEAP：

1. 更换思科AR服务器的端口。AP发送关于用户数据报协议(UDP)端口1812 (验证)和1813的RADIUS信息(核算)。默认情况下因为思科AR在UDP端口1645和1646侦听，您在UDP端口1812和1813必须配置思科AR侦听。发出`cd /radius/advanced/ports`命令。发出`add 1812`命令添加端口1812。如果计划执行核算，发出`add 1813`命令添加端口1813。保存配置，然后重新启动服务。
2. 添加对思科AR服务器的AP，发出这些命令：`cd /Radius/Clients`添加`ap350-1``cd ap350-1`设置IP地址`171.69.89.1`设置`sharedsecret cisco`
3. 要配置有线等效保密(WEP)密钥会话超时，请发出这些命令：**注意：**802.1x指定重新验证选项。Cisco LEAP算法使用此选项超时用户的当前WEP会话密钥和发出一新的WEP会话密钥。`cd /Radius/Profiles`添加`ap-profile``cd ap-profile`属性设置`session-timeout 600`
4. 要创建使用配置文件的用户组在步骤3添加了，发出这些命令：`cd /Radius/Usergroups`添加`ap-group``cd ap-group`设置`baseprofile ap-profile`用户在此用户组中继承配置文件和反之接收会话超时。
5. 要创建用户列表和添加的用户用户对在步骤定义的用户组4，发出这些命令：`cd /Radius/Userlists`添加`ap`用户`cd ap`用户添加`user1``cd user1`set password思科集合组`ap-group`
6. 要创建本地认证和授权服务使用UserService “ap-userservice”和设置服务类型为“eap-leap”，请发出这些命令：`cd /Radius/Services`添加`ap-localservice``cd ap-localservice`set type `eap-leap`设置UserService `ap-userservice`
7. 要创建用户服务“ap-userservice”使用定义的用户列表在步骤5，请发出这些命令：`cd /Radius/Services`添加`ap-userservice``cd ap-localservice`set type本地设置`userlist ap-users`
8. 要设置默认验证和授权请服务思科AR使用对定义的服务在步骤6，发出这些命令：`cd /radius`设置`defaultauthenticationservice ap-localservice`设置`defaultauthorizationservice ap-localservice`
9. 要保存和重新加载配置，请发出这些命令：**保存重新加载**

[在 AP上 启用 EAP-Cisco \(CISCO LEAP\)](#)

[逐步指导](#)

遵从这些步骤启用在AP的Cisco LEAP：

1. 浏览对AP。
2. 从Summary Status页，请点击**设置**。

3. 在服务菜单，请点击**Security > Authentication服务器**。
4. 选择802.1x版本运行在802.1x协议版本下拉菜单的此AP。
5. 配置思科AR的IP地址在服务器名/IP文本框的。
6. 验证下拉菜单设置为**RADIUS的服务器类型**。
7. 更换波尔特文本框对**1812**。这是使用的正确IP端口号与思科AR。
8. 配置有在思科AR使用的值的共享秘密文本框。
9. 选择**EAP Authentication复选框**。
10. 修改超时文本框，如果如此希望。这是认证请求的超时值思科AR的。
11. 点击OK键返回到Security Setup屏幕。如果也执行认为的RADIUS，请验证核算设置页的端口与在思科AR配置的端口一致(1813的集)。
12. 单击 **Radio Data Encryption (WEP)**。
13. 通过键入在WEP密钥1文本框的-40或128比特的关键值配置广播WEP密钥。
14. 选择认证类型使用。确保，最少，**Network-EAP复选框**选择。
15. 验证下拉菜单设置为**可选或全部加密**的Use of Data Encryption。可选允许使用非WEP和WEP客户端同样AP的。注意这是不安全操作模式。请使用完全加密，当可能。
16. 点击OK键完成。

[配置ACU 6.00](#)

[逐步指导](#)

遵从这些步骤配置ACU：

1. 打开 ACU。
2. 点击工具栏的**配置文件管理器**。
3. 单击**添加**创建新配置文件。
4. 输入在文本框的配置文件名称，然后点击OK键。
5. 输入在SSID1文本框的适当的服务集标识(SSID)。
6. 点击**网络安全**。
7. 选择从网络安全类型下拉菜单的**LEAP**。
8. 单击 **Configure**。
9. 配置密码设置当必要时。
10. 单击 **Ok**。
11. 点击OK键在Network Security屏幕的。

[从 Cisco AR 跟踪](#)

发出**trace /r 5**得到在思科AR的trace输出。如果需要AP调试，您能连接到AP通过Telnet和发出**eap_diag1_on**和**eap_diag2_on**命令。

```
06/28/2004 16:31:49: P1121: Packet received from 10.48.86.230
06/28/2004 16:31:49: P1121: Checking Message-Authenticator
06/28/2004 16:31:49: P1121: Trace of Access-Request packet
06/28/2004 16:31:49: P1121: identifier = 5
06/28/2004 16:31:49: P1121: length = 146
06/28/2004 16:31:49: P1121:
    reqauth = e5:4f:91:27:0a:91:82:6b:a4:81:c1:cc:c8:11:86:0b
06/28/2004 16:31:49: P1121: User-Name = user1
```

06/28/2004 16:31:49: P1121: NAS-IP-Address = 10.48.86.230
06/28/2004 16:31:49: P1121: NAS-Port = 37
06/28/2004 16:31:49: P1121: Service-Type = Login
06/28/2004 16:31:49: P1121: Framed-MTU = 1400
06/28/2004 16:31:49: P1121: Called-Station-Id = 000d29e160f2
06/28/2004 16:31:49: P1121: Calling-Station-Id = 00028adc8f2e
06/28/2004 16:31:49: P1121: NAS-Identifier = frinket
06/28/2004 16:31:49: P1121: NAS-Port-Type = Wireless - IEEE 802.11
06/28/2004 16:31:49: P1121: EAP-Message = 02:02:00:0a:01:75:73:65:72:31
06/28/2004 16:31:49: P1121:
 Message-Authenticator = f8:44:b9:3b:0f:33:34:a6:ed:7f:46:2d:83:62:40:30
06/28/2004 16:31:49: P1121: Cisco-AVPair = ssid=blackbird
06/28/2004 16:31:49: P1121: Using Client: ap1200-1 (10.48.86.230)
06/28/2004 16:31:49: P1121: Using Client ap1200-1 (10.48.86.230) as the NAS
06/28/2004 16:31:49: P1121: Authenticating and Authorizing with
 Service ap-localservice
06/28/2004 16:31:49: P1121: Response Type is Access-Challenge,
 skipping Remote Session Management.
06/28/2004 16:31:49: P1121: Response Type is Access-Challenge,
 skipping Local Session Management.
06/28/2004 16:31:49: P1121: Adding Message-Authenticator to response
06/28/2004 16:31:49: P1121: Trace of Access-Challenge packet
06/28/2004 16:31:49: P1121: identifier = 5
06/28/2004 16:31:49: P1121: length = 61
06/28/2004 16:31:49: P1121:
 reqauth = 60:ae:19:8d:41:5e:a8:dc:4c:25:1b:8d:49:a3:47:c4
06/28/2004 16:31:49: P1121: EAP-Message =
 01:02:00:15:11:01:00:08:66:27:c3:47:d6:be:b3:67:75:73:65:72:31
06/28/2004 16:31:49: P1121: Message-Authenticator =
 59:d2:bc:ec:8d:85:36:0b:3a:98:b4:90:cc:af:16:2f
06/28/2004 16:31:49: P1121: Sending response to 10.48.86.230
06/28/2004 16:31:49: P1123: Packet received from 10.48.86.230
06/28/2004 16:31:49: P1123: Checking Message-Authenticator
06/28/2004 16:31:49: P1123: Trace of Access-Request packet
06/28/2004 16:31:49: P1123: identifier = 6
06/28/2004 16:31:49: P1123: length = 173
06/28/2004 16:31:49: P1123:
 reqauth = ab:f1:0f:2d:ab:6e:b7:49:9e:9e:99:00:28:0f:08:80
06/28/2004 16:31:49: P1123: User-Name = user1
06/28/2004 16:31:49: P1123: NAS-IP-Address = 10.48.86.230
06/28/2004 16:31:49: P1123: NAS-Port = 37
06/28/2004 16:31:49: P1123: Service-Type = Login
06/28/2004 16:31:49: P1123: Framed-MTU = 1400
06/28/2004 16:31:49: P1123: Called-Station-Id = 000d29e160f2
06/28/2004 16:31:49: P1123: Calling-Station-Id = 00028adc8f2e
06/28/2004 16:31:49: P1123: NAS-Identifier = frinket
06/28/2004 16:31:49: P1123: NAS-Port-Type = Wireless - IEEE 802.11
06/28/2004 16:31:49: P1123: EAP-Message =
 02:02:00:25:11:01:00:18:5e:26:d6:ab:3f:56:f7:db:21:96:f3:b0:fb:ec:6b:
 a7:58:6f:af:2c:60:f1:e3:3c:75:73:65:72:31
06/28/2004 16:31:49: P1123: Message-Authenticator =
 21:da:35:89:30:1e:e1:d6:18:0a:4f:3b:96:f4:f8:eb
06/28/2004 16:31:49: P1123: Cisco-AVPair = ssid=blackbird
06/28/2004 16:31:49: P1123: Using Client: ap1200-1 (10.48.86.230)
06/28/2004 16:31:49: P1123: Using Client ap1200-1 (10.48.86.230) as the NAS
06/28/2004 16:31:49: P1123: Authenticating and Authorizing
 with Service ap-localservice
06/28/2004 16:31:49: P1123: Calling external service ap-userservice
 for authentication and authorization
06/28/2004 16:31:49: P1123: Getting User user1's UserRecord
 from UserList ap-users
06/28/2004 16:31:49: P1123: User user1's MS-CHAP password matches
06/28/2004 16:31:49: P1123: Processing UserGroup ap-group's check items
06/28/2004 16:31:49: P1123: User user1 is part of UserGroup ap-group

06/28/2004 16:31:49: P1123: Merging UserGroup ap-group's BaseProfiles
into response dictionary

06/28/2004 16:31:49: P1123: Merging BaseProfile ap-profile
into response dictionary

06/28/2004 16:31:49: P1123: Merging attributes into the Response Dictionary:

06/28/2004 16:31:49: P1123: Adding attribute Session-Timeout, value = 600

06/28/2004 16:31:49: P1123: Merging UserGroup ap-group's Attributes
into response Dictionary

06/28/2004 16:31:49: P1123: Merging attributes into the Response Dictionary:

06/28/2004 16:31:49: P1123: Removing all attributes except for
EAP-Message from response - they will be sent back in the Access-Accept

06/28/2004 16:31:49: P1123: Response Type is Access-Challenge,
skipping Remote Session Management.

06/28/2004 16:31:49: P1123: Response Type is Access-Challenge,
skipping Local Session Management.

06/28/2004 16:31:49: P1123: Adding Message-Authenticator to response

06/28/2004 16:31:49: P1123: Trace of Access-Challenge packet

06/28/2004 16:31:49: P1123: identifier = 6

06/28/2004 16:31:49: P1123: length = 44

06/28/2004 16:31:49: P1123:
reqauth = 28:2e:a3:27:c6:44:9e:13:8d:b3:60:01:7f:da:8b:62

06/28/2004 16:31:49: P1123: EAP-Message = 03:02:00:04

06/28/2004 16:31:49: P1123: Message-Authenticator =
2d:63:6a:12:fd:91:9e:7d:71:9d:8b:40:04:56:2e:90

06/28/2004 16:31:49: P1123: Sending response to 10.48.86.230

06/28/2004 16:31:49: P1125: Packet received from 10.48.86.230

06/28/2004 16:31:49: P1125: Checking Message-Authenticator

06/28/2004 16:31:49: P1125: Trace of Access-Request packet

06/28/2004 16:31:49: P1125: identifier = 7

06/28/2004 16:31:49: P1125: length = 157

06/28/2004 16:31:49: P1125:
reqauth = 72:94:8c:34:4c:4a:ed:27:98:ba:71:33:88:0d:8a:f4

06/28/2004 16:31:49: P1125: User-Name = user1

06/28/2004 16:31:49: P1125: NAS-IP-Address = 10.48.86.230

06/28/2004 16:31:49: P1125: NAS-Port = 37

06/28/2004 16:31:49: P1125: Service-Type = Login

06/28/2004 16:31:49: P1125: Framed-MTU = 1400

06/28/2004 16:31:49: P1125: Called-Station-Id = 000d29e160f2

06/28/2004 16:31:49: P1125: Calling-Station-Id = 00028adc8f2e

06/28/2004 16:31:49: P1125: NAS-Identifier = frinket

06/28/2004 16:31:49: P1125: NAS-Port-Type = Wireless - IEEE 802.11

06/28/2004 16:31:49: P1125: EAP-Message =
01:02:00:15:11:01:00:08:3e:b9:91:18:a8:dd:98:ee:75:73:65:72:31

06/28/2004 16:31:49: P1125: Message-Authenticator =
8e:73:2b:a6:54:c6:f5:d9:ed:6d:f0:ce:bd:4f:f1:d6

06/28/2004 16:31:49: P1125: Cisco-AVPair = ssid=blackbird

06/28/2004 16:31:49: P1125: Using Client: ap1200-1 (10.48.86.230)

06/28/2004 16:31:49: P1125: Using Client ap1200-1 (10.48.86.230) as the NAS

06/28/2004 16:31:49: P1125: Authenticating and Authorizing
with Service ap-localservice

06/28/2004 16:31:49: P1125: Merging attributes into the Response Dictionary:

06/28/2004 16:31:49: P1125: Adding attribute Session-Timeout, value = 600

06/28/2004 16:31:49: P1125: Restoring all attributes to response
that were removed in the last Access-Challenge

06/28/2004 16:31:49: P1125: No default Remote Session Service defined.

06/28/2004 16:31:49: P1125: Adding Message-Authenticator to response

06/28/2004 16:31:49: P1125: Trace of Access-Accept packet

06/28/2004 16:31:49: P1125: identifier = 7

06/28/2004 16:31:49: P1125: length = 142

06/28/2004 16:31:49: P1125:
reqauth = 71:f1:ef:b4:e6:e0:c2:4b:0a:d0:95:47:35:3d:a5:84

06/28/2004 16:31:49: P1125: Session-Timeout = 600

06/28/2004 16:31:49: P1125: EAP-Message =
02:02:00:25:11:01:00:18:86:5c:78:3d:82:f7:69:c7:96:70:35:31:bb:51:a7:ba:f8:48:8c:

45:66:00:e8:3c:75:73:65:72:31

06/28/2004 16:31:49: P1125: Message-Authenticator =

7b:48:c3:17:53:67:44:f3:af:5e:17:27:3d:3d:23:5f

06/28/2004 16:31:49: P1125: Cisco-AVPair =

6c:65:61:70:3a:73:65:73:73:69:6f:6e:2d:6b:65:79:3d:04:f2:c5:2a:de:fb:4e:1e:8a:8d

:b8:1b:e9:2c:f9:9a:3e:83:55:ff:ae:54:57:4b:60:e1:03:05:fd:22:95:4c:b4:62

06/28/2004 16:31:49: P1125: Sending response to 10.48.86.230

[相关信息](#)

- [Cisco Access Registrar支持页面](#)
- [技术支持和文档 - Cisco Systems](#)