

# 知 l2tp over ipsec 拨号失败 显示用户名或密码不正确

L2TP VPN IPsec VPN 雨下整夜 2024-05-12 发表

## 组网及说明

F1020---ISP---家用路由器---pc

## 告警信息

### 关键配置

```
#
ip pool aa 10.6.0.100 10.6.0.200
ip pool aa gateway 10.6.0.1
#
interface Virtual-Template1
ppp authentication-mode chap domain system
ppp ipcp dns x.x.x.x
remote address pool aa
ip address 10.6.0.1 255.255.255.0
dns server x.x.x.x
#
interface GigabitEthernet1/0/1
port link-mode route
description LINK-to-Internet
ip address x.x.x.x 255.255.255.240
ipsec apply policy GE1/0/1 // ipsec 为传输模式 不过多赘述配置
#
domain system
 authentication ppp radius-scheme aa
 authorization ppp radius-scheme aa
 accounting ppp radius-scheme aa
#
l2tp-group 1 mode lns
allow l2tp virtual-template 1
undo tunnel authentication
tunnel name LNS
#
```

## 问题描述

用inode 和 pc自带的拨号软件拨号都失败了



无法连接到 Veck

L2TP 连接尝试失败，因为安全层在初始化与远程计算机的协商时遇到一个处理错误。

关闭

## 过程分析

pc端拨号的同时抓网卡报文，发现ipsec正常建立了，但经过几个esp报文后，交互了informational信息，隧道中断。

No.	Time	Source	Destination	Protocol	Length	Info
	1603 9.180641			ISAKMP	450	Identity Protection (Main Mode)
	1613 9.134797			ISAKMP	178	Identity Protection (Main Mode)
	1614 9.135390			ISAKMP	302	Identity Protection (Main Mode)
	1621 9.171523			ISAKMP	290	Identity Protection (Main Mode)
	1623 9.172132			ISAKMP	114	Identity Protection (Main Mode)
	1631 9.214211			ISAKMP	114	Identity Protection (Main Mode)
	1635 9.215588			ISAKMP	482	Quick Mode
	1642 9.264798			ISAKMP	210	Quick Mode
	1644 9.265403			ISAKMP	106	Quick Mode
	1645 9.265813			ESP	222	(SPI=0xb3451848)
	1650 9.294812			ESP	174	(SPI=0xb0b6460f0)
	1651 9.295818			ESP	110	(SPI=0xb3451848)
	1652 9.295887			ESP	110	(SPI=0xb3451848)
	1653 9.295106			ESP	142	(SPI=0xb3451848)
	1666 9.326593			ESP	126	(SPI=0xb0b6460f0)
	1667 9.326871			ESP	142	(SPI=0xb3451848)
	1668 9.331412			ESP	126	(SPI=0xb3451848)
	1670 9.366130			ESP	126	(SPI=0xb0b6460f0)
	1671 9.366314			ESP	126	(SPI=0xb3451848)
	1726 9.653406			ESP	110	(SPI=0xb0b6460f0)
	2044 11.342121			ESP	126	(SPI=0xb3451848)
	2050 11.372399			ESP	110	(SPI=0xb0b6460f0)
	2051 11.372799			ESP	126	(SPI=0xb3451848)
	2056 11.403075			ESP	126	(SPI=0xb0b6460f0)
	2057 11.403075			ESP	142	(SPI=0xb0b6460f0)
	2058 11.403254			ESP	126	(SPI=0xb3451848)
	2059 11.403208			ESP	126	(SPI=0xb3451848)
	2060 11.403304			ESP	126	(SPI=0xb3451848)
	2061 11.404385			ESP	126	(SPI=0xb3451848)
	2255 12.461489			ESP	142	(SPI=0xb0b6460f0)
	2256 12.461489			ESP	142	(SPI=0xb0b6460f0)
	2257 12.464459			ESP	126	(SPI=0xb3451848)
	2262 12.495452			ESP	110	(SPI=0xb0b6460f0)
	2263 12.495696			ESP	126	(SPI=0xb3451848)
	2264 12.496114			ESP	126	(SPI=0xb3451848)
	2265 12.497955			ISAKMP	122	Informational
	2266 12.498066			ISAKMP	130	Informational

这几个esp报文其实是被保护的l2tp协商报文，看抓包怀疑是终端l2tp拨号失败，主动把ipsec隧道删除，需要继续排查l2tp协商失败的原因。

报错显示用户名和密码失败，所以在设备上重新创建了一个ppp用户用于测试，还是拨号失败，报错依旧。

发现客户设备中有1个月前的诊断信息

对比配置后，发现客户的1个月前的配置中

ppp用户的认证方式为本地认证

而现在ppp用户的认证域的认证方式是结合了radius的

interface Virtual-Template1

```
ppp authentication-mode chap domain system
```

```
#
```

```
domain system
```

```
authentication ppp radius-scheme aa
```

```
authorization ppp radius-scheme aa
```

```
accounting ppp radius-scheme aa
```

```
#
```

随后将该domain中的认证方式改成local测试，拨号成功。



配置ppp用户认证方式为local

```
interface Virtual-Template1
 ppp authentication-mode chap domain system
#
domain system
authentication ppp local
authorization ppp local
accounting ppp local
```

处理故障问题的时候有条件可以先对配置。