

# 知 防火墙L2TP over IPSec典型配置

L2TP over IPSec VP

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## 组网及说明



实验环境，为方便配置，设定隧道两端直连。  
现网环境可能涉及到NAT转换，跨越公网等情况，以此为参考即可。  
本案例不涉及安全域和安全策略的说明，策略默认any-any。

## 配置步骤

防火墙配置：

注：防火墙与PC互联的接口为GigabitEthernet1/0

### 1. L2TP部分

```
#  
l2tp enable  
#  
ip pool l2tp 10.10.1.4 10.10.1.10  
ip pool l2tp gateway 10.10.1.3  
#  
interface Virtual-Template1 //创建接口Virtual-Template1, PPP认证方式为CHAP, 并使用地址池l2tp  
为LAC client端分配IP地址  
ppp authentication-mode chap domain system  
remote address pool l2tp  
ip address 10.10.1.3 255.255.255.0  
#  
local-user l2tp class network //创建l2tp登录的用户  
password cipher $c$3$MCLrk5FDm7c5UOHsGo0Br5FXnPQGmZYJbg==  
service-type ppp authorization-attribute  
user-role network-operator  
#  
l2tp-group 1 mode lns  
allow l2tp virtual-template 1  
undo tunnel authentication //关闭隧道验证功能  
tunnel name lns
```

### 2. IPsec部分

```
#  
acl advanced 3100 rule 0 permit ip source 111.3.3.1 0 destination 111.3.3.254 0 //感兴趣流  
#  
ike keychain key  
pre-shared-key address 111.3.3.254 255.255.255.255 key cipher $c$3$UGr3MLpcFlvrmchfJ4Sq5r1  
DjIfYp/BPTg==  
#  
ike profile pf  
keychain key  
dpd interval 10 retry 30 on-demand //配置DPD检测  
local-identity address 111.3.3.1  
match remote identity address 111.3.3.254 255.255.255.255  
#  
ipsec transform-set ts  
esp encryption-algorithm  
3des-cbc esp authentication-algorithm md5  
#  
ipsec policy ply 1 isakmp  
transform-set ts  
security acl 3100  
remote-address 111.3.3.254  
ike-profile pf  
#  
interface GigabitEthernet1/0  
port link-mode route  
description l2tp&ipsec  
ip address 111.3.3.1 255.255.255.0  
ipsec apply policy ply
```

客户端配置：

注：客户端使用定制的inode智能客户端，如下：

