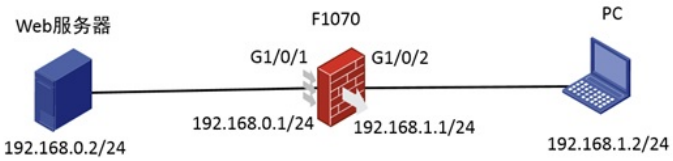
# 防火墙L2TP over IPSec VPN (定制INode拨号)典型配置

L2TP over IPSec VP 吴昊A 2020-03-11 发表

## 组网及说明

1. **组网需求：**
   Comware V7防火墙设备作为VPN总部，电脑客户、移动终端通过中间跨越运营商网络拨入L2TP over IPSec VPN实现访问内网服务器的需求。
2. **组网图：**




如图所示，外网终端通过防火墙的接口2地址192.168.1.1拨号L2TP over IPSec VPN访问内网web服务器的资源。

## 配置步骤

1. 防火墙接口配置如下。

```
interface GigabitEthernet1/0/2
 port link-mode route
 ip address 192.168.1.1 255.255.255.0
ipsec apply policy  1
```

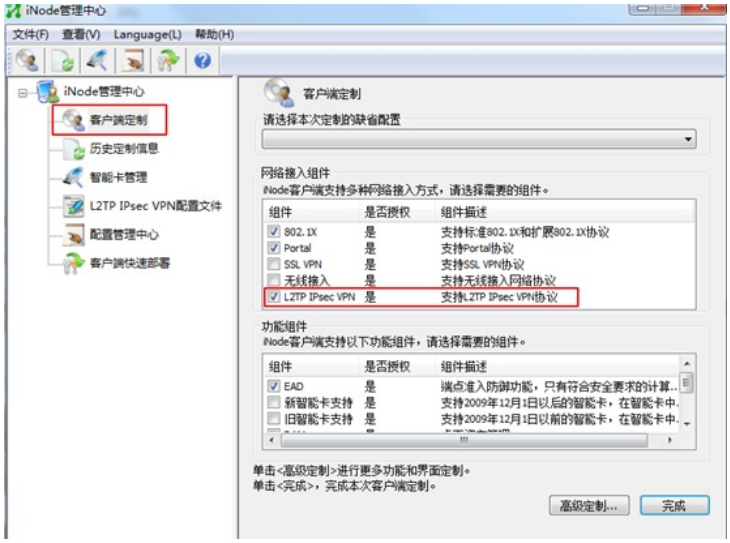
2. F1030 L2TP/IPSec相关配置.

```
#
ip pool pool 10.1.1.2 10.1.1.10            //地址池
#
interface Virtual-Template1
 ppp authentication-mode pap
 remote address pool pool
 ip address 10.1.1.1 255.255.255.0
#
local-user client class network
 password simple client
 service-type ppp
 authorization-attribute user-role network-operato
#
ipsec transform-set 1
 encapsulation-mode transport
 esp encryption-algorithm 3des-cbc
 esp authentication-algorithm md5
#
ipsec transform-set 2
 encapsulation-mode transport
 esp encryption-algorithm aes-cbc-128
 esp authentication-algorithm sha1
#
ipsec transform-set 3
 encapsulation-mode transport
 esp encryption-algorithm aes-cbc-256
 esp authentication-algorithm sha1
#
ipsec transform-set 4
 encapsulation-mode transport
 esp encryption-algorithm des-cbc
 esp authentication-algorithm sha1
#
ipsec transform-set 5
 encapsulation-mode transport
 esp encryption-algorithm 3des-cbc
```

```
 esp authentication-algorithm sha1
#
ipsec transform-set 6
 encapsulation-mode transport
 esp encryption-algorithm aes-cbc-192
 esp authentication-algorithm sha1
#
ipsec policy-template 1 1
 transform-set 1 2 3 4 5 6  //不确定终端的提议类型，这里设置多个
 ike-profile 1
#
ipsec policy 1 1 isakmp template 1
#
l2tp-group 1 mode lns
 allow l2tp virtual-template 1
 undo tunnel authentication
#
 l2tp enable
#
ike profile 1
 keychain 1
 local-identity address 192.168.1.1
 match remote identity address 0.0.0.0 0.0.0.0
 proposal 1 2 3 4 5 6
#
ike proposal 1
 encryption-algorithm aes-cbc-128
 dh group2
 authentication-algorithm md5
#
ike proposal 2
 encryption-algorithm 3des-cbc
 dh group2
 authentication-algorithm md5
#
ike proposal 3
 encryption-algorithm 3des-cbc
 dh group2
#
ike proposal 4
 encryption-algorithm aes-cbc-256
 dh group2
#
ike proposal 5
 dh group2
#
ike proposal 6
 encryption-algorithm aes-cbc-192
 dh group2
#
ike keychain 1
 pre-shared-key address 0.0.0.0 0.0.0.0 key simple test
#
```

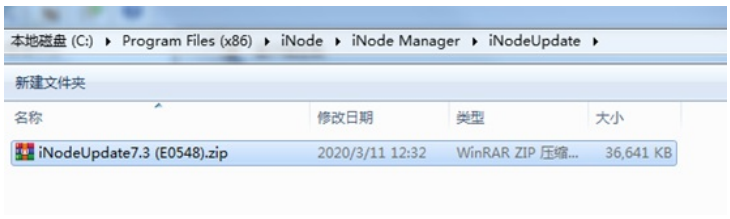
3. 物理口、Virtual-Template1接口加入安全区域，并放通域间策略。对于G1/0/2接口需要注意开放Untrust到Local的策略。对于Virtual-Template1接口，假设虚拟接口加入的是Untrust安全域，如果要访问内网资源，开放Untrust到Trust的安全策略。
4. 定制的INode终端拨号

   INode管理中心上定制l2tp over ipsec拨号功能

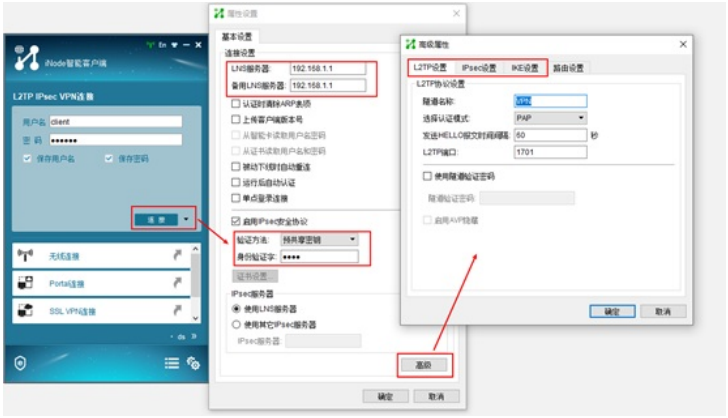


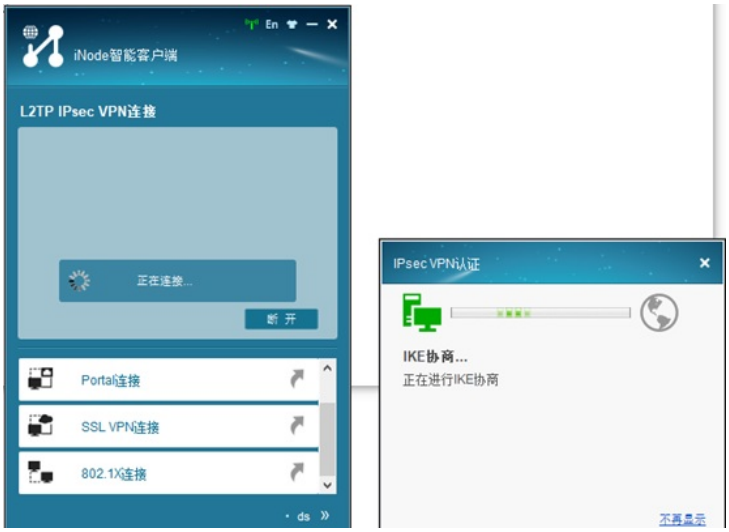


生成定制的INode安装包




安装定制的INode客户端：






## 配置关键点

**附件下载：**INode定制及拨号截图.rar