

知 F10X0/F50X0系列V7防火墙使用默认证书配置SSL VPN IP资源典型案例（命令行配置）

SSL VPN zhiliao_F03qD 2018-11-25 发表

组网及说明

1 配置需求及说明

1.1 适用的产品系列

本案例适用于如F1080、F1070、F5040、F5020等F10X0、F50X0系列的防火墙。

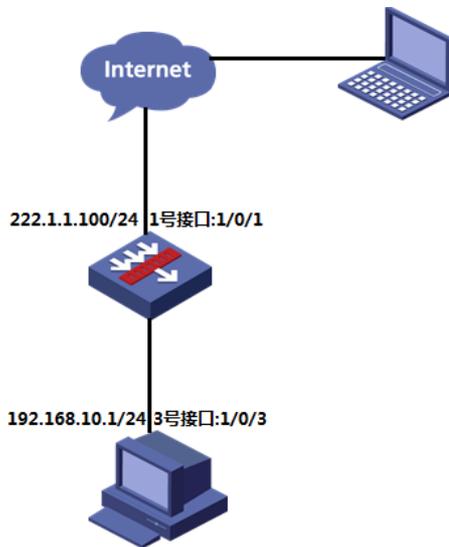
注：本案例是在F1000-C-G2的Version 7.1.064, Release 9323P19版本上进行配置和验证的。

1.2 配置需求及实现的效果

V7防火墙设备作为出口设备，外网PC通过inode软件拨SSLVPN，认证成功后可以访问内网192.168.10.0网段的资源。IP地址及接口规划如下表所示：

外网接口	公网地址/掩码	内网接口	内网地址/掩码
GE1/0/1	222.1.1.100/24	GE1/0/3	192.168.10.1/24

2 组网图



配置步骤

3 配置步骤

3.1 防火墙上网配置

防火墙上网配置请参考“2.2.2 防火墙外网使用固定IP地址上网配置方法”进行配置，本文只针对SSLVPN配置进行介绍。

3.2 配置SSL VPN网关

#SSLVPN网关IP地址填写防火墙1口地址222.1.1.100，端口号修改为4433，缺省端口为443，443端口和https端口冲突，然后使能网关配置。

```
<H3C>sys
[H3C]sslvpn gateway SSLVPNGW
[H3C-sslvpn-gateway-SSLVPNGW]ip address 222.1.1.100 port 4433
[H3C-sslvpn-gateway-SSLVPNGW]service enable
[H3C-sslvpn-gateway-SSLVPNGW]quit
#创建SSL VPN AC接口1,配置接口IP为10.10.10.1/24
[H3C]interface SSLVPN-AC 1
[H3C-SSLVPN-AC1] ip address 10.10.10.1 255.255.255.0
[H3C-SSLVPN-AC1]quit
#创建地址池名称为“SSLPOOL”，指定IP地址范围为10.10.10.2——10.10.10.254
[H3C]sslvpn ip address-pool SSLPOOL 10.10.10.2 10.10.10.254
#创建ACL 3999，允许SSL VPN用户访问的内网资源192.168.10.0/24网段
[H3C]acl advanced 3999
[H3C-acl-ipv4-adv-3999]rule permit ip destination 192.168.10.0 0.0.0.255
[H3C-acl-ipv4-adv-3999]quit
```

3.3 配置SSL VPN实例

```
# 配置SSL VPN访问实例“SSLVPNSL”引用SSL VPN网关“SSLVPNGW”
[H3C] sslvpn context SSLVPN
[H3C-sslvpn-context-SSLVPN] gateway SSLVPNGW
# 引用SSL VPN接口1
[H3C-sslvpn-context-SSLVPN] ip-tunnel interface SSLVPN-AC1
# 引用SSL VPN地址池, 掩码和dns
[H3C-sslvpn-context-SSLVPN] ip-tunnel address-pool SSLPOOL mask 255.255.255.0
[H3C-sslvpn-context-SSLVPN] ip-tunnel dns-server primary 114.114.114.114
# 创建路由列表“NEIWANG”, 添加路由表项192.168.10.0/24
[H3C-sslvpn-context-SSLVPN] ip-route-list NEIWANG
[H3C-sslvpn-context-SSLVPN-route-list-NEIWANG] include 192.168.10.0 255.255.255.0
# 创建SSL VPN策略组“SSLVPNZIYUAN”, 引用路由列表“NEIWANG”, 配置ACL限制, 只有通过ACL
# 检查的报文才可以访问IP资源
[H3C-sslvpn-context-SSLVPN] policy-group SSLVPNZIYUAN
[H3C-sslvpn-context-SSLVPN-policy-group-SSLVPNZIYUAN] filter ip-tunnel acl 3999
[H3C-sslvpn-context-SSLVPN-policy-group-SSLVPNZIYUAN] ip-tunnel access-route ip-route-list NEI
WANG
[H3C-sslvpn-context-SSLVPN-policy-group-SSLVPNZIYUAN] quit
[H3C-sslvpn-context-SSLVPN] service enable
[H3C-sslvpn-context-SSLVPN] quit
```

3.4 新建SSL VPN用户, 关联SSLVPN资源组

```
# 创建SSLVPN本地用户, 配置用户名密码user1, 服务类型sslvpn, 引用之前创建的SSLVPN资源组
[H3C] local-user user1 class network
[H3C-luser-network-user1] password simple user1
[H3C-luser-network-user1] service-type sslvpn
[H3C-luser-network-user1] authorization-attribute sslvpn-policy-group SSLVPNZIYUAN
[H3C-luser-network-user1] quit
```

3.5 将SSL VPN端口加入安全域, 放通对应安全策略

```
# 新建安全域, 名称为“SSLVPN”, 将SSL VPN端口1加入到安全域“SSLVPN”
[H3C] security-zone name SSLVPN
[H3C-security-zone-SSLVPN] import interface SSLVPN-AC1
[H3C-security-zone-SSLVPN] quit
# 创建服务对象组, 组名称为4433, 匹配SSLVPN端
[H3C] object-group service 4433
[H3C-obj-grp-service-4433] service tcp destination eq 4433
[H3C-obj-grp-service-4433] quit
# 配置配置安全策略将Untrust到Local域目的端口为TCP4433端口放通
[H3C] security-policy ip
[H3C-security-policy-ip] rule 5 name Untrst-Local
[H3C-security-policy-ip-5-Untrst-Local] action pass
[H3C-security-policy-ip-5-Untrst-Local] source-zone Untrust
[H3C-security-policy-ip-5-Untrst-Local] destination-zone Local
[H3C-security-policy-ip-5-Untrst-Local] service 4433
[H3C-security-policy-ip-5-Untrst-Local] quit
# 配置配置安全策略, 放通源安全域为SSLVPN, 目前安全域为“Trust”的数据流量
[H3C-security-policy-ip] rule 10 name SSLVPN-Trust
[H3C-security-policy-ip-10-SSLVPN-Trust] action pass
[H3C-security-policy-ip-10-SSLVPN-Trust] source-zone SSLVPN
[H3C-security-policy-ip-10-SSLVPN-Trust] destination-zone Trust
[H3C-security-policy-ip-10-SSLVPN-Trust] quit
```

3.6 保存配置

```
save force
```

3.7 配置验证, 查看拨号成功的用户

```
<H3C>dis sslvpn session verbose
User       : user1
Context    : SSLVPN
Policy group : SSLVPNZIYUAN
Idle timeout : 30 min
Created at  : 18:16:02 UTC Sun 08/26/2018
```

Lastest : 18:32:32 UTC Sun 08/26/2018

User IPv4 address : 222.1.1.99

Alloced IP : 10.10.10.2

Session ID : 3

Web browser/OS : Windows

4 注意事项

- 1、本案例适应的是默认证书，不需要手工导入CA证书和本地正常
- 2、不需要配置SSL服务器端策略，SSLVPN网关不需要引用SSL服务器端策略

配置关键点