

知 SSLVPN + radius server authentication and authorization of the ACL for the clients configuration example

Security 蒋笑添 2021-07-09 Published

Network Topology

ISP ----- Firewall ----- Radius server

Configuration Steps

The logical relationship of Radius attribute, user group and sslvpn policy is like following:

Radius Attribute 11 = user group name which can be got after user pass the auth on the Radius from the Radius server.

And sslvpn policy group is a attribute of user group. It should be defined on the device. Refer to:

[Configuring user group attributes](#)

```
authorization-attribute { acl acl-number | callback-number callback-number | idle-cut minutes | ip-pool ipv4-pool-name | ipv6-pool ipv6-pool-name | ipv6-prefix ipv6-prefix prefix-length | { primary-dns | secondary-dns } | ip ipv4-address | ipv6 ipv6-address } | session-timeout minutes | sslvpn-policy-group group-name | url url-string | vlan vlan-id | vpn-instance vpn-instance-name | work-directory directory-name } *
```

You can create sslvpn policy group which bind with exact acl policy. It should be defined on the device. Refer to:

[Configuring an SSL VPN policy group for IP access](#)

Finally, the relation map is Radius Attribute 11---- user group---- sslvpn policy group----acl. So the SSLVPN user can be get the corresponding ACL.

Configure Steps:

1. Configure the SSLVPN on the firewall.

```
#
sslvpn gateway gw
ip address x.x.x.x port 4430
service enable
#
interface SSLVPN-AC1
ip address 10.100.10.1 255.255.255.0
#
domain test.cn
authentication sslvpn radius-scheme rscheme
authorization sslvpn radius-scheme rscheme
accounting sslvpn radius-scheme rscheme
#
sslvpn ip address-pool sslvpnpool 10.100.10.2 10.100.10.100
#
sslvpn context ctxip
gateway gw
ip-tunnel interface SSLVPN-AC1
ip-tunnel address-pool sslvpnpool mask 255.255.255.0
ip-tunnel dns-server primary 10.30.10.11
ip-tunnel dns-server secondary 10.30.10.12
ip-tunnel log connection-close
ip-tunnel log packet-drop
ip-tunnel log address-alloc-release
ip-route-list external
include 192.168.0.0 255.255.255.0
ip-route-list rtlist
include 192.168.10.0 255.255.255.0
policy-group external
filter ip-tunnel acl 3013
ip-tunnel access-route ip-route-list external
policy-group resourcegrp
filter ip-tunnel acl 3003
ip-tunnel access-route ip-route-list rtlist
default-policy-group resourcegrp
log user-login enable
log resource-access enable filtering brief
service enable
#
```

2. create the user-group and bind the sslvpn policy group set in the sslvpn context.

```
#
```

```
user-group external
```

```
authorization-attribute sslvpn-policy-group external
```

```
Key Configuration
```

```
#
```

3. Configure the attribute 11 on the Radius server.