

MSR路由器

路由器间IPv6 SFTP + RSA认证功能的配置

关键词: MSR;SFTP;RSA;IPv6

一、组网需求:

MSR1作为SFTP服务器, MSR2作为SFTP客户端

设备清单: MSR路由器2台

二、组网图:



三、配置步骤:

设备和版本: MSR、Version 5.20, Beta 1105。

MSR1配置命令1	<pre>//MSR1生成1024位的rsa本地密钥对 [MSR1]rsa local-key-pair create The range of public key size is (512 ~ 2048). NOTES: If the key modulus is greater than 512, It will take a few minutes. Input the bits in the modulus[default = 512]:1024 Generating keys...++++++++++++++++++++++++ Done! [MSR1]</pre>
MSR2配置命令	<pre>//MSR2生成512位的rsa本地密钥对 [MSR2]rsa local-key-pair create The range of public key size is (512 ~ 2048). NOTES: If the key modulus is greater than 512, It will take a few minutes. Input the bits in the modulus[default = 512]:512 Generating keys...++++++++++++++++++++++++ Done! //将msr2本地密钥对的公钥导出sshkey格式的msr2_public_ssh [msr2]rsa local-key-pair export ssh2 msr2_public_ssh The file of public key is successfully generated. [msr2]</pre>
MSR1配置命令2	<pre>//将msr2导出的公钥文件下载到本地, 并引入成rsakey格式的msr2_public_rsa [msr1]rsa peer-public-key msr2_public_rsa import sshkey msr2_public_ssh The public key is successfully imported from the file. [msr1]</pre>
MSR1关键配置脚本	

```

#
//全局使能IPv6
ipv6
#
//并发配置用户数量为5
configure-user count 5
#
//从msr2导出的sshkey引入生成的rsakey, 名字为msr2_public_rsa
rsa peer-public-key msr2_public_rsa
public-key-code begin
3047
0240
    B7AE288E FBB73E77 42FF2169 B3312D3B 6243DFFC D83BE964 A82FF2E9 0337B8F8
    7F41BC00 D3FDE155 01A95A99 3218561F B93A6EA5 CDC3B14F 3EF8544B C93B77EF
0203
010001
public-key-code end
peer-public-key end
#
interface Ethernet0/0
port link-mode route
ipv6 add 1::1/64
#
//SFTP服务器配置
sftp server enable
//为登录用户client1指定rsakey为msr2_public_rsa
ssh user client1 assign rsa-key msr2_public_rsa
//SSH登录用户client1及对应的认证类型为rsa
ssh user client1 authentication-type rsa
//SSH用户client1的服务类型为sftp, 即安全ftp
ssh user client1 service-type sftp
#
user-interface vty 0 4
//vty登录用户需要进行aaa认证
authentication-mode scheme
#

```

MSR2关键配置脚本

```

#
//全局使能IPv6
ipv6
#
interface Ethernet0/0
port link-mode route
//配置IPv6地址
ipv6 address 2::1/64
#

```

四、配置关键点：

- 1) 2台路由器都要生成密钥对和使能IPv6;
- 2) 客户端需要将自己的密钥对导出成sshkey, 服务器需要将其引入为rsakey;
- 3) 服务器为特定用户指定其rsakey;
- 4) 将登录用户认证类型改为rsa;
- 5) 服务器使能SFTP Server, 并将SSH用户的服务类型改为SFTP或ALL。