[配置OSPF 2](#_Toc457327367)

[配置RIP 2](#_Toc457327368)

[引入静态路由 2](#_Toc457327369)

[发布静态路由 2](#_Toc457327370)

[设置chap认证 2](#_Toc457327371)

[给交换机vlan添加端口 2](#_Toc457327372)

[设置trunk口 3](#_Toc457327373)

[配置stp 3](#_Toc457327374)

[NAT 设置 3](#_Toc457327375)

[Acl 3](#_Toc457327376)

[PPP+PAP 4](#_Toc457327377)

[NAT server 4](#_Toc457327378)

[telnet 5](#_Toc457327379)

[链路聚合 5](#_Toc457327380)

[配置RTA为DHCP服务器 5](#_Toc457327381)

交换机开启虚接口

# 配置OSPF

[RTA]ospf

[RTA-ospf-1]area 0

[RTA-ospf-1-area-0.0.0.0]network 10.1.1.4 0.0.0.1(反掩码)

[RTA-ospf-1-area-0.0.0.0]quit

# 配置RIP

Rip

Version 2

Network 网络号

# 引入静态路由

[RTC-ospf-1]import static

# 发布默认路由

[RTA-ospf-1]default-route-advertise

# 设置chap认证

[RTA]local-user rtb class network

New local user added.

[RTA-luser-network-rtb]password simple pwdpwd

[RTA-luser-network-rtb]service-type ppp

[RTA-luser-network-rtb]quit

[RTA]interface s1/0

[RTA-Serial1/0]ppp authentication-mode chap

[RTB]interface s1/0

[RTB-Serial1/0]ppp chap user rtb

[RTB-Serial1/0]ppp chap password simple pwdpwd

# 给交换机vlan添加端口

[SWA]vlan 10

[SWA-vlan10]port g1/0/1 to g1/0/10

# 设置trunk口

[SWA]interface g1/0/11

[SWA-GigabitEthernet1/0/11]port link-type trunk

[SWA-GigabitEthernet1/0/11]port trunk permit vlan all

# 配置stp

[SWB]stp global enable

[SWB]stp priority 4096（设置优先级）

J进入端口 stp edged-port配置边缘端口

# NAT 设置

[RTC]acl basic 2000

[RTC-acl-ipv4-basic-2000]rule 0 permit source 192.168.0.0 0.0.0.255

[RTC-acl-ipv4-basic-2000]quit

[RTC]nat address-group 1

[RTC-address-group-1]address 101.1.1.1 101.1.1.8

[RTC-address-group-1]quit

[RTC]inter s2/0

[RTC-Serial2/0]nat outbound 2000 address-group 1

[RTC-Serial2/0]quit

此时RTD的返回包

[RTD] ip route-static 101.1.1.0 28 100.1.0.1

# Acl

[RTD]acl advanced 3000

[RTD-acl-ipv4-adv-3000]rule deny icmp source 192.168.1.2 0 destination 100.1.1.2 0

[RTD-acl-ipv4-adv-3000]quit

[RTD]int g0/0

[RTD-GigabitEthernet0/0]packet-filter 3000 inbound

# PPP+PAP

（1） 封装ppp协议

[RTC]interface s1/0

[RTC-Serial1/0]link-protocol ppp

[RTC-Serial1/0]baudrate 2048000

[RTC-Serial1/0]quit

同样的方法给RTA封装ppp协议，但不需要设置波特率

（2）在RTc上配置本地用户名和密码

[RTC]local-user rt class network

[RTC-luser-network-rt]service-type ppp

[RTC-luser-network-rt]password simple pwdpwd

[RTC-luser-network-rt]quit

在RTA上配置本地验证对端RTA方式为PAP

[RTC]interface s1/0

[RTC-Serial1/0]link-protocol ppp

[RTC-Serial1/0]ppp authentication-mode pap

配置chap认证

[RTC]interface s3/0

[RTC-Serial1/0]ppp authentication-mode chap

（3）在RTA上配置PAP验证时发送的用户名和密码

[RTA]interface s1/0

[RTA-Serial1/0]link-protocol ppp

[RTA-Serial1/0]ppp pap local

[RTA-Serial1/0]ppp pap local-user rt password simple pwdpwd

Chap的被验证方

[RTC]interface s3/0

[RTC-Serial3/0]link-protocol ppp

[RTC-Serial3/0]ppp chap user rt

[RTC-Serial3/0]ppp chap password simple pwdpwd

# NAT server

[RTC]interface s2/0

[RTC-Serial2/0]nat server protocol tcp global 101.1.1.19 80 inside 192.168.1.254

80

# telnet

telnet只用密码进行验证

[RTA]telnet server enable

[RTA]line vty 0 63

[RTA-line-vty0-63]authentication-mode password

[RTA-line-vty0-63]set authentication password simple 3011设置登录密码

[RTA-line-vty0-63]user-role level-15设置登录级别（network-admin）

通过用户名和密码登录

[RTA]telnet server enable

[RTA]local-user test

[RTA-luser-manage-test] password simple test

[RTA-luser-manage-test]service-type telnet

[RTA-luser-manage-test]authorization-attribute user-role test

# 链路聚合

[SWA]interface Bridge-Aggregation 1

[SWA-Bridge-Aggregation1]quit

[SWA]interface g 1/0/23

[SWA-GigabitEthernet1/0/23]port link-aggregation group 1

[SWA-GigabitEthernet1/0/23]quit

[SWA]interface g 1/0/24

[SWA-GigabitEthernet1/0/24]port link-aggregation group 1

Display link-aggregation summary

# 配置RTA为DHCP服务器

[RTA]dhcp enable

[RTA]dhcp server forbidden-ip 192.168.0.1

[RTA]dhcp server ip-pool pool1

[RTA-dhcp-pool-pool1]network 192.168.0.0 24

[RTA-dhcp-pool-pool1]gateway-list 192.168.0.1

[RTA-dhcp-pool-pool1]quit

交换机开启虚接口

Vlan 10

Int vlan-int10

Ip address 10.10.10.10. 255.255.255.128