1.**端口聚合**

·静态聚合命令

·创建聚合接口，并进入聚合接口视图

·将以太网接口加入聚合组（首先进入以太网接口视图）

**[例]**将以太网端口Ethernet1/0/1 加入聚合端口22。

[H3C] interface bridge-aggregation 22

[H3C] interface Ethernet1/0/1

[H3C-Ethernet1/0/1]port link-aggregation group 22

·清除端口聚合

[H3C] undo link-aggregation group agg-id

/[H3C]undo interface bridge-aggregation interface-number

·显示端口聚合的信息

[H3C] display link-aggregation summary

1. **vlan**

·创建VLAN并进入VLAN视图

[H3C] vlan 2

·删除VLAN

[H3C] undo vlan 2

VLAN接口的ID取值范围为1～4094

·给VLAN指定端口

·向VLAN中添加交换机端口

·从VLAN中删除交换机端口

[H3C-vlan2] (undo) port ethernet 0/1(to ethernet 0/12)

·链路聚合+vlan：

①添加端口->

②设置端口类型为trunck->

③设置端口允许通过的vlan

·VLAN：

[SwitchA] vlan 2

[SwitchA-vlan2] port e1/ 0/1

[SwitchA-vlan2] vlan 3

[SwitchA-vlan3] port e1/ 0/2

·链路聚合：

[SwitchA] interface bridge-aggregation 1

[interface bridge-aggregation 1] int e1/0/23

[SWA-Ethernet1/0/23] port link-aggregation group 1

[SWA-Ethernet1/0/23] int e1/0/24

[SWA-Ethernet1/0/24] interface bridge-aggregation 1

[SWA-Ethernet1/0/24] port link-aggregation group 1

[interface bridge-aggregation 1]port link-type trunk

[interface bridge-aggregation 1]port trunk permit vlan 2 to

·IP地址：

[H3C] interface vlan-interface 1

[H3C-vlan-inferface1]ip address 210.30.103.254 255.255.255.0

[H3C-vlan-inferface1] undo ip address

·检查IP地址配置是否正确

[任意视图] display interface vlan-interface [vlan\_id]

不存在跨交换机的VLAN不需配置Trunk链路

**·使用telnet登录交换机：**

1、配置交换机的IP地址和子网掩码

<H3C> system

[H3C] interface vlan-interface 1

[H3C-vlan-interface1] ip address 192.168.0.2 255.255.255.0

2、配置用户远程登录口令和权限

[H3C]telnet server enable

[H3C] user-interface vty 0 4

[H3C-ui-vty0-4] authentication-mode password

[H3C-ui-vty0-4] set authentication password simple 123456

[H3C-line vty0-4]user-role level-15

1. **telnet登录路由器**

·在路由器上配置telnet用户和密码

[RT] telnet server enable

[RT]line vty 0//一个或多个VTY用户线视图

[RT-line-vty0]authentication-mode scheme//登陆用户的认证方式：通过AAA认证

[RT]local-user test class manage//创建用户名

[RT-luser-manage-test]password simple 123

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

[RT-luser-manage-test]authorization-attribute user-role network-admin // 登陆权限为超级用户

1. **静态路由：**

·三层交换机的路由表也是静态路由

[H3C] ip route-static 210.30.104.0 24 210.30.104.254

[H3C] ip route-static 0.0.0.0 0 192.168.1.1 //缺省路由

1. **rip动态路由：**

[RTA]rip

[RTA-rip-1]network 0.0.0.0

[RTA-rip-1]network 192.0.0.1

[RTA-rip-1]import-route *protocol*

1. **广域网协议配置（PPP）**

·封装PPP

[RTA-serial 1/0] link-protocol ppp//默认是这个 不用配

·PAP验证

验证方:

[RTA-Serial0] ppp authentication-mode pap

[RTA] local-user A class network

[RTA-luser] service-type ppp

[RTA-luser] password simple 123

被验证方:

[RTA-Serial0] ppp pap local-user A password simple 123

**·CHAP验证：**

验证方:

[RA-Serial0] ppp authentication-mode chap

[RA-Serial0] ppp chap user A /在被认证方上为认证方配置的用户名必须跟此处配置的一致

[Quidway] local-user B class network

[Quidway-luser] service-type ppp

[Quidway-luser] password simple 123

被验证方:

[RB-Serial0] ppp chap user B /在认证方上为被认证方配置的用户名必须跟此处配置的一致

[Quidway] local-user A class network

[Quidway-luser] service-type ppp

[Quidway-luser] password simple 123

**·HDLC协议配置**双方都：

[RTA] interface serial 2/0

[RTA-serial 2/0] link-protocol HDLC

**·防火墙配置[Advanced ACL]**

[RTA]acl number 3000 match-order auto

[RTA-acl-adv-3000]rule deny ip source 0.0.0.0 0 destination 0.0.0.0

[RTA-acl-adv-3000]rule permit ip source 192.0.0.1 0.0.0.255 destination 202.0.1.1

·防火墙配置

[RTA] firewall enable

·在接口上应用ACL：

[RTA-Serial0] packet-filter acl-number { inbound | outbound }

在一个接口的一个方向上，可以配置多个ACL，匹配时从acl-number 大的ACL开始

·显示配置信息

[任意视图] display acl all

# 配置Ethernet0入方向访问规则禁止所有包通过。

[Router] acl number 3001 match-order auto

[Router-acl-adv-3001] rule deny ip source any destination any

[Router-acl-adv-3001] rule permit ip source 129.38.1.4 0 destination any

[Router] acl number 3002 match-order auto

[Router-acl-adv-3002] rule deny ip source any destination any

[Router-acl-adv-3002] rule permit ip source 202.39.2.3 0 destination 129.38.1.1 0

[Router-Ethernet0]packet-filter 3001 inbound

[Router-Serial0]packet-filter 3002 outbound

**·OSPF设置**

[RTA]router id 192.0.0.1

[RTA]ospf

[RTA]area 0

[RTA-area0.0.0.0]network 192.0.0.1 0.0.0.255

[RTA-ospf]import-route protocol rip

[RTA-ospf]import-route protocol direct

[RTA-ospf]import-route protocol static

