

Configure PPPOE client using ADSL modem access Internet

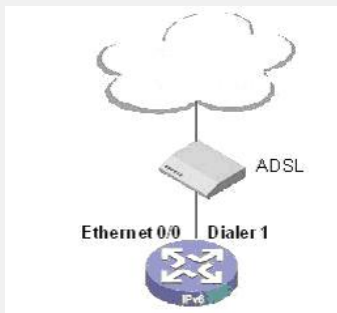
Keyword: MSR, PPPOE, MODEM

1. Requirements

Router's E0/0 binds Dialer1 and is connected to MODEM through CHAP authentication on dial-up.

Device: MSR series router

2. Network diagram



3. Configuration steps

Device and version: MSR series, version 5.20 and Beta 1106.

RTA key configuration scripts

```
#
//create dialer-rule 1
dialer-rule 1 ip permit
#
// configure an ACL for NAT
acl number 2000
 rule 0 permit source 192.168.1.0 0.0.0.255
#
//create dialer 1
interface Dialer1
 link-protocol ppp
 //Apply ACL 2000 for Easy IP NAT
 nat outbound 2000
 //ADSL account and password for authentication.
 ppp chap user hgw1
 ppp chap password simple hgw
 // Acquire IP address through PPP negotiation.
 ip address ppp-negotiate
 dialer user hgw1
 dialer-group 1
 dialer bundle 1
#
//Bind E0/0 to dialer 1
interface Ethernet0/0
 port link-mode route
 pppoe-client dial-bundle-number 1
#
//Configure dialer 1 as the default outgoing interface of the routing
ip route-static 0.0.0.0 0.0.0.0 Dialer 1 preference 60
#
```

4. Tips

1. The dialer user under the dialer interface is mandatory for dialer bundle.
2. The ADSL account and password are provided by the ISP, and the authentication mode (PAP or CHAP) shall be the same as that configured on the DSLAM. You can execute the debug ppp command to figure it out.
3. In the case that the Internet is reachable, but the user cannot open webpage after the NAT, you shall configure tcp mss 1400 on the intranet and Internet interfaces.