

RG-EG3250 – PPPoE Server Configuration Guide

Firmware Version: EG_RGOS 11.9(1)B11S2, Release(06231220)

Procedure #1: Enable the PPPoE Server

```
Ruijie(config)#pppoe-server enable
```

```
EG3250#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
EG3250(config)#pppoe-server enable
*Aug 14 14:28:53: %CLI-5-EXEC_CMD: Configured from console command: pppoe-server enable
```

Procedure #2: Create broadband access aggregation

```
Ruijie(config)#bba-group pppoe pppoe-server0 --// pppoe-server0 is the server name
Ruijie(config-bba-group)#virtual-template 50 -- // you can specify any virtual-template number
Ruijie(config-bba-group)#exit
```

```
EG3250(config)#bba-group pppoe pppoe-server0
*Aug 14 14:32:53: %CLI-5-EXEC_CMD: Configured from console command: bba-group pppoe pppoe-server0
EG3250(config-bba-group)#virtual-template 50
*Aug 14 14:33:01: %CLI-5-EXEC_CMD: Configured from console command: virtual-template 50
EG3250(config-bba-group)#exit
*Aug 14 14:33:05: %CLI-5-EXEC_CMD: Configured from console command: exit
EG3250(config)#
```

Procedure #3: Enable AAA model & default subs

```
Ruijie(config)#aaa new-model
Ruijie(config)#aaa authentication ppp default subs
```

```
EG3250(config)#aaa new-model
*Aug 14 14:36:16: %CLI-5-EXEC_CMD: Configured from console command: aaa new-model
EG3250(config)#aaa authentication ppp default subs
*Aug 14 14:36:21: %CLI-5-EXEC_CMD: Configured from console command: aaa authentication ppp default subs
EG3250(config)#
```

Procedure #4: Create PPPoE Server DHCP Pool & Assign Loopback interface

```
Ruijie(config)#ip local pool pppoe-server0 192.168.101.1 192.168.101.254
Ruijie(config)#interface Loopback 2147483100
Ruijie(config-if-Loopback 2147483100)#ip address 192.168.101.1 255.255.255.255
Ruijie(config-if-Loopback 2147483100)#exit
```

```
EG3250(config)#ip local pool pppoe-server0 192.168.101.1 192.168.101.254
*Aug 14 14:40:48: %CLI-5-EXEC_CMD: Configured from console command: ip local pool pppoe-server0 192.168.101.1 192.168.101.254
EG3250(config)#interface Loopback 2147483100
*Aug 14 14:40:57: %LINK-3-UPDOWN: Interface Loopback 2147483100, changed state to up.
*Aug 14 14:40:57: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback 2147483100, changed state to up.
EG3250(config-if-Loopback 2147483100)#ip address 192.168.101.1 255.255.255.255
*Aug 14 14:42:47: %CLI-5-EXEC_CMD: Configured from console command: ip address 192.168.101.1 255.255.255.255
EG3250(config-if-Loopback 2147483100)#exit
*Aug 14 14:42:52: %CLI-5-EXEC_CMD: Configured from console command: exit
EG3250(config)#
```

Procedure #5: Create virtual template interface, bind the DHCP Pool, DNS, Authentication Algorithm and NAT

```
Ruijie(config)#interface Virtual-Template 50
Ruijie(config-if-Virtual-Template 50)#ip unnumbered Loopback 2147483100
Ruijie(config-if-Virtual-Template 50)#peer default ip address pool pppoe-server0
Ruijie(config-if-Virtual-Template 50)#ppp ipcp dns 8.8.8.8
Ruijie(config-if-Virtual-Template 50)#ppp authentication chap pap ms-chap ms-chap-v2
Ruijie(config-if-Virtual-Template 50)#ip nat inside
Ruijie(config-if-Virtual-Template 50)#exit
```

```
EG3250(config)#interface Virtual-Template 50
*Aug 14 14:46:53: %CLI-5-EXEC_CMD: Configured from console command: interface Virtual-template 50
EG3250(config-if-Virtual-Template 50)#ip unnumbered Loopback 2147483100
*Aug 14 14:46:53: %CLI-5-EXEC_CMD: Configured from console command: ip unnumbered Loopback 2147483100
EG3250(config-if-Virtual-Template 50)#$ address pool pppoe-server0
*Aug 14 14:46:53: %CLI-5-EXEC_CMD: Configured from console command: peer default ip address pool pppoe-server0
EG3250(config-if-Virtual-Template 50)#ppp ipcp dns 8.8.8.8
*Aug 14 14:46:53: %CLI-5-EXEC_CMD: Configured from console command: ppp ipcp dns 8.8.8.8
EG3250(config-if-Virtual-Template 50)#$ion chap pap ms-chap ms-chap-v2
*Aug 14 14:46:53: %CLI-5-EXEC_CMD: Configured from console command: ppp authentication chap pap ms-chap ms-chap-v2
EG3250(config-if-Virtual-Template 50)#ip nat inside
*Aug 14 14:46:53: %CLI-5-EXEC_CMD: Configured from console command: ip nat inside
EG3250(config-if-Virtual-Template 50)#exit
*Aug 14 14:46:55: %CLI-5-EXEC_CMD: Configured from console command: exit
EG3250(config)#
```

Procedure #6: Bind PPPoE Server Group into Port Interface

```
Ruijie(config)#interface Gi0/0
Ruijie(config-if-GigabitEthernet 0/0)#pppoe-server enable group pppoe-server0
Ruijie(config-if-GigabitEthernet 0/0)#exit
```

```
EG3250(config)#int g0/0
*Aug 14 14:48:38: %CLI-5-EXEC_CMD: Configured from console command: interface GigabitEthernet 0/0
EG3250(config-if-GigabitEthernet 0/0)#$able group pppoe-server0
*Aug 14 14:48:40: %CLI-5-EXEC_CMD: Configured from console command: pppoe-server enable group pppoe-server0
EG3250(config-if-GigabitEthernet 0/0)#exit
*Aug 14 14:48:41: %CLI-5-EXEC_CMD: Configured from console command: exit
EG3250(config)#
```

Procedure #7: Enable Local Account Notification

```
Ruijie(config)#local-account notice enable
Ruijie(config)#local-account notice date-rule 48 60 -- // (hours, minutes)
```

```
EG3250(config)#local-accoun notice enable
*Aug 14 14:50:47: %CLI-5-EXEC_CMD: Configured from console command: local-account notice enable
EG3250(config)#local-account notice date-rule 48 60
*Aug 14 14:50:48: %CLI-5-EXEC_CMD: Configured from console command: local-account notice date-rule 48 60
EG3250(config)#
```

Procedure #8: Create a subscriber account under the PPPoE Sever group

Ruijie(config)#subscriber static name test parent /pppoe-server0 password test

```
EG3250(config)# test parent /pppoe-server0 password test
*Aug 14 14:52:41: %CLI-5-EXEC_CMD: Configured from console command: subscriber static name test parent /pppoe-server0 password test
```

Procedure #9: Configure subscriber account settings

Ruijie(config)#local-account user test

Ruijie(local-account-user)#policy date 2018 6 1 -- // this is the expiration date

Ruijie(local-account-user)#mac auto

Ruijie(local-account-user)#exit

```
EG3250(config)#local-account user test
*Aug 14 14:54:48: %CLI-5-EXEC_CMD: Configured from console command: local-account user test
EG3250(local-account-user)#policy date 2018 6 1
*Aug 14 14:54:48: %CLI-5-EXEC_CMD: Configured from console command: policy date 2018 6 1
EG3250(local-account-user)#mac auto
*Aug 14 14:54:48: %CLI-5-EXEC_CMD: Configured from console command: mac auto
EG3250(local-account-user)#exit
*Aug 14 14:54:50: %CLI-5-EXEC_CMD: Configured from console command: exit
EG3250(config)#
```

Note: Make sure that you have matched the MTU speed of both connection link.