

WellBilling 6600 Redundant Setup Procedure

Target Objective:

WellBilling 66xx RADIUS Billing Server can support fully redundant to provide 24*7 running. It provides 1+1 active/standby redundant architecture. The active one will sync all status to standby one to ensure the seamless failover. This application note describes the required steps to setup your WellBilling 6600 redundant.

Recommendations:

First of all, you need to make sure you get the HA license key from Welltech. The following steps will guide you to setup:

IP Required:

3 public IP address for WAN:

192.168.19.163 is the virtual IP address (for providing service).

192.168.19.169 is the maintenance IP for 6600-1.

192.168.19.164 is the maintenance IP for 6600-2.

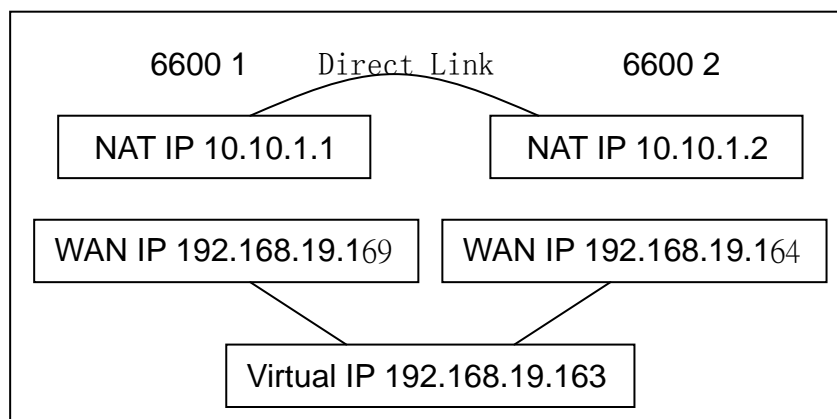
Connect both 2 WAN to 1 or 2 Ethernet switch.

2 private IP for LAN: (mainly for redundant status sync)

10.10.1.1 is the private IP address for 6500-1.

10.10.1.2 is the private IP address for 6500-2.

Use an Ethernet Cable to connect 10.10.1.1 and 10.10.1.2 together to ensure the two proxies' status is sync:



WellBilling 6600 1 Setup:

Click **Control > Network > Billing Service Interface** to set the IP address and the figure as figure 1-1:

Network Control

Use DHCP

Use fixed IP address

IP Address : 192.168.19.169

IP Netmask : 255.255.255.0

IP Gateway : 192.168.19.254

DNS Setup

Primary DNS Server : 192.168.5.1

Secondary DNS Server : 168.95.1.1

Host name : HA6600_1

Domain name :

Dynamic DNS Registration : Yes No

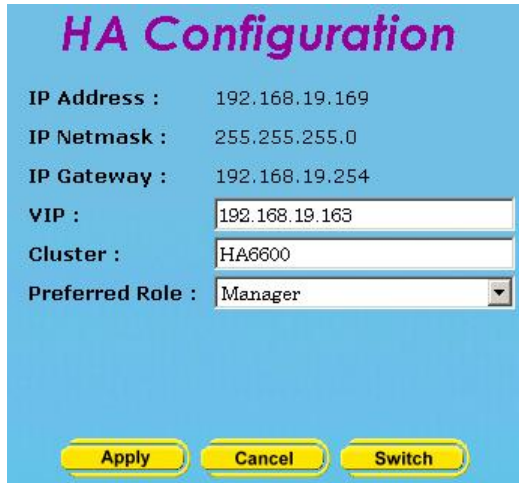
Apply Cancel Back

Figure 1-1

Required Parameters:

IP Address: 192.168.19.169
IP Netmask: 255.255.255.0
IP Gateway: 192.168.19.254
Host Name: HA6600_1

Click **Configuration -> HA** to setup the redundant cluster settings:
Configuration is as figure 1-2.



The image shows a configuration window titled "HA Configuration" with a blue background. It contains several fields for network and cluster settings. At the bottom, there are three yellow buttons: "Apply", "Cancel", and "Switch".

Field	Value
IP Address :	192.168.19.169
IP Netmask :	255.255.255.0
IP Gateway :	192.168.19.254
VIP :	192.168.19.163
Cluster :	HA6600
Preferred Role :	Manager

Figure 1-2

Required Parameters:

VIP: 192.168.19.163

Cluster: HA6600

Preferred Role: Manager

Reboot WellBilling 6600 1

WellBilling 6600 2 Setup:

Click **Control > Network > Billing Service Interface** to set the IP address and the figure as figure 1-3:

Network Control

Use DHCP
 Use fixed IP address

IP Address : 192.168.19.164
IP Netmask : 255.255.255.0
IP Gateway : 192.168.19.254

DNS Setup

Primary DNS Server : 192.168.5.1
Secondary DNS Server : 168.95.1.1
Host name : HA6600_2
Domain name :
Dynamic DNS Registration : Yes No

Apply Cancel Back

Figure 1-3

IP Address: 192.168.19.164
IP Netmask: 255.255.255.0
IP Gateway: 192.168.19.254
Host Name: HA6600_2

Click **Configuration -> HA** to setup the redundant cluster settings:
Configuration is as figure 1-4.

HA Configuration

IP Address : 192.168.19.164
IP Netmask : 255.255.255.0
IP Gateway : 192.168.19.254
VIP : 192.168.19.163
Cluster : HA6600
Preferred Role : Standby Manager

Apply Cancel Switch

Figure 1-4

Required Parameters:

VIP: 192.168.19.163

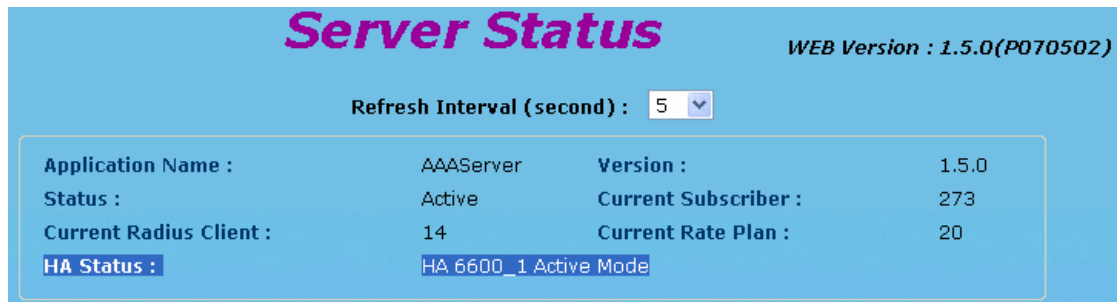
Cluster: HA6600

Preferred Role: Standby Manager

Reboot WellBilling 6600 2

Validate the Redundant Status

Click the **Monitor > Server Status** to validate the redundant status as follows:



Server Status			
WEB Version : 1.5.0(P070502)			
Refresh Interval (second) : 5			
Application Name :	AAAServer	Version :	1.5.0
Status :	Active	Current Subscriber :	273
Current Radius Client :	14	Current Rate Plan :	20
HA Status :	HA 6600_1 Active Mode		

You should see the active one's status as follows:

HA Status:

HA 6600_1 Active Mode

HA6600_2 Standby Mode