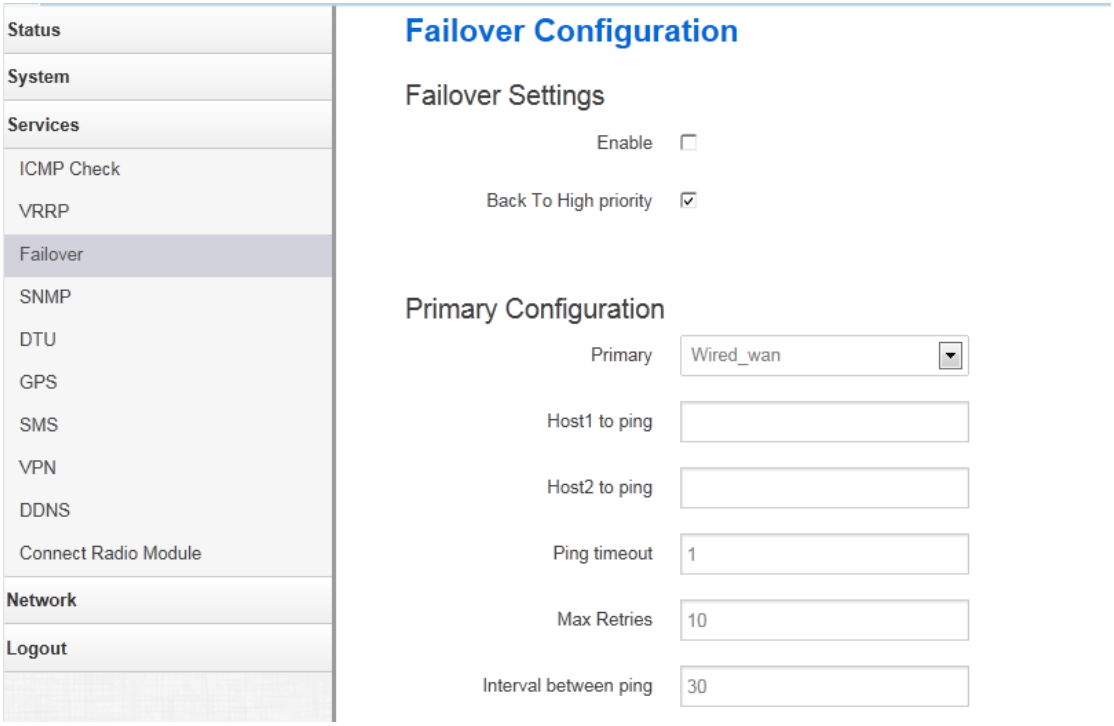
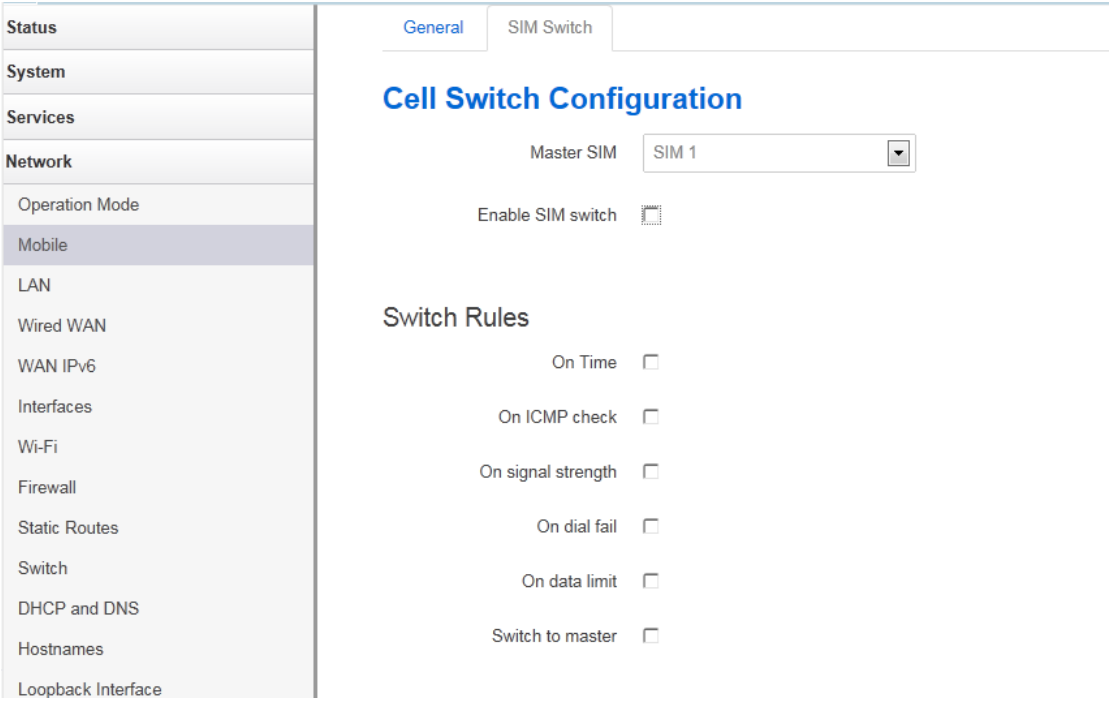
Load Balancing

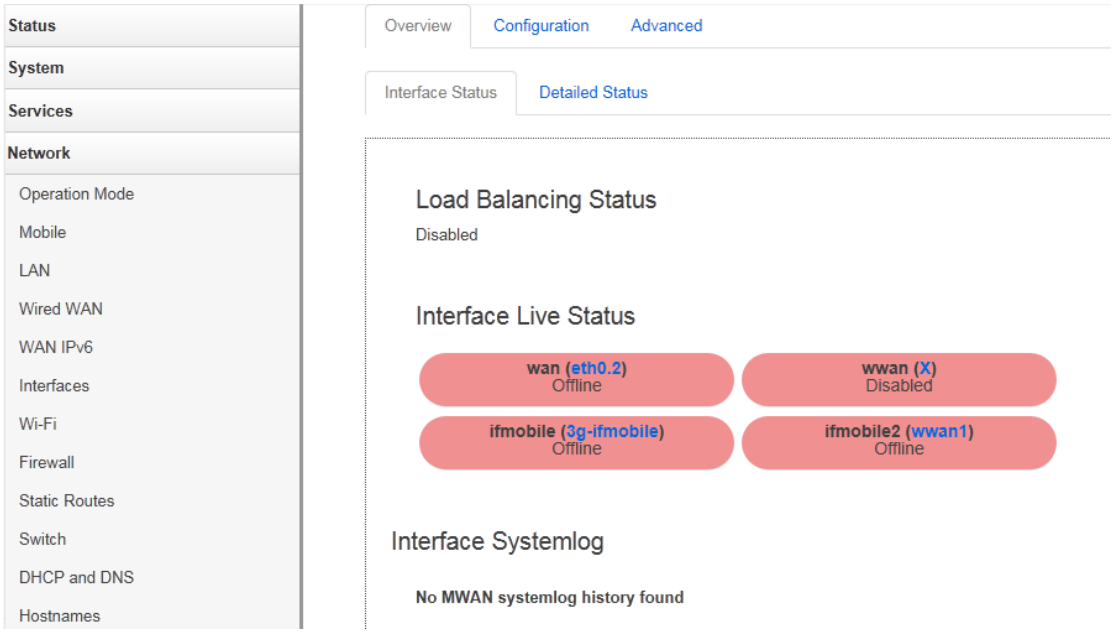
1. Disable Failover and SIM Switch firstly.
   Failover is disabled as default, but SIM Switch is enabled by default.
   a. Goto Services→ Failover to disable Failover.



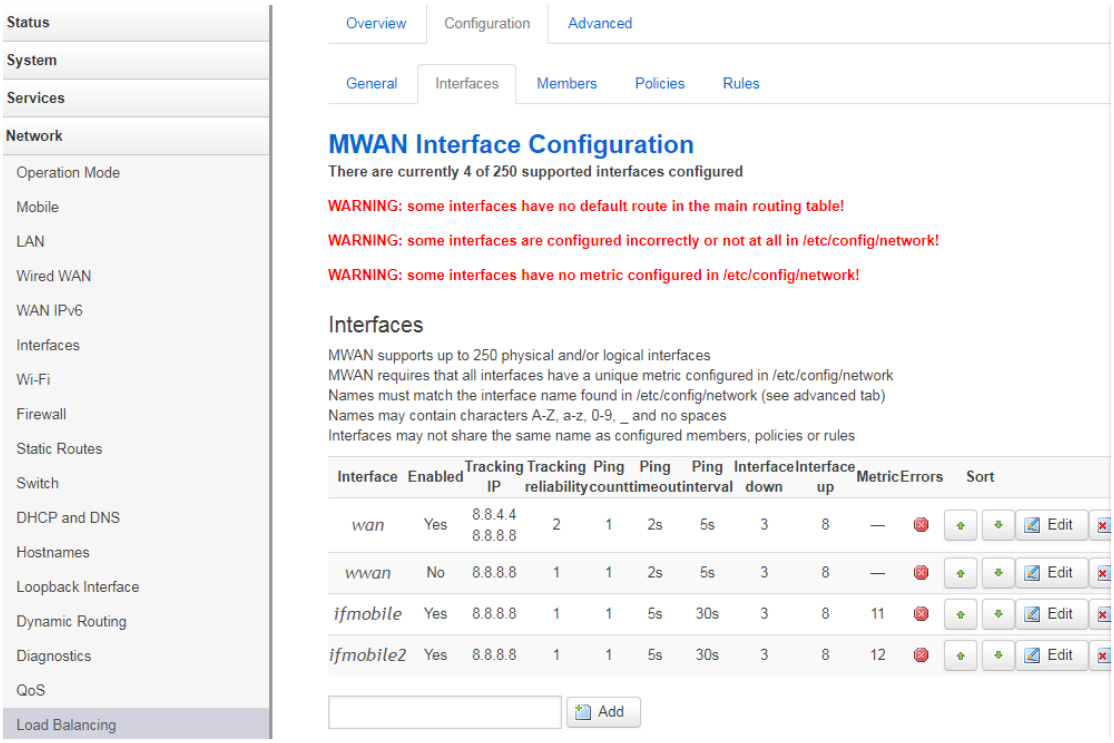
   b. Goto Network→ Mobile → SIM Switch, set “Enable SIM switch” to unchecked. And click button “Save & Apply”



2. Open page Network → Load Balancing. Load Balancing is disabled by default.



3. Goto Configuration → Interface page.

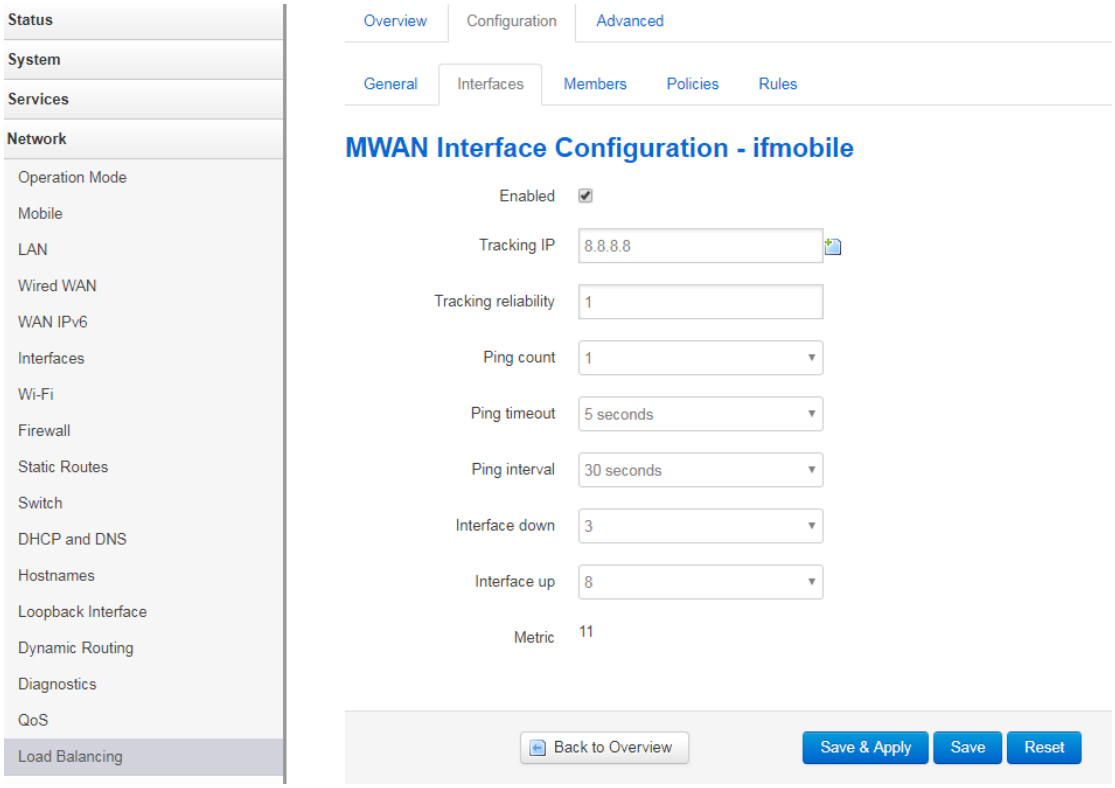


There are 4 default interfaces. Wan is wired wan, wwan is wifi client, ifmobile is cell 1 interface. Ifmobile2 is cell 2 interface.

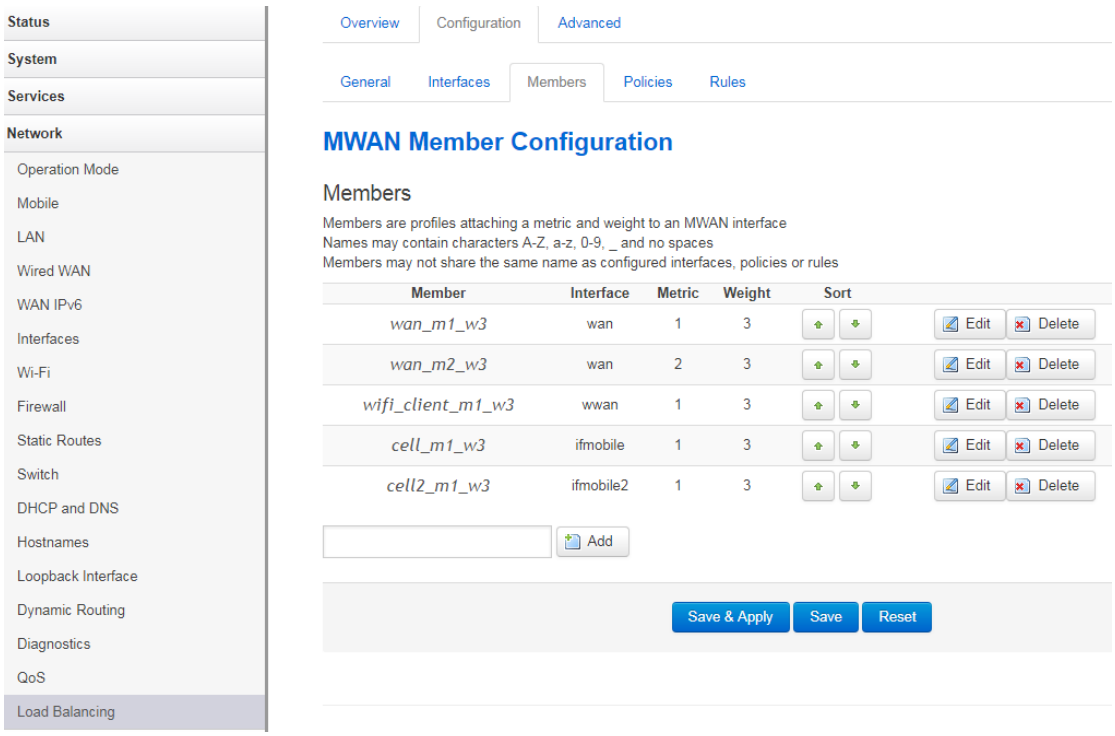
The metric of ifmobile and ifmobile2 are set to 11 and 12.

The default metric for wan and wwan are 0. If we want to add wan or wwan into Load Balancing, we must modify default metric to other value rather than 0.

4. Edit interface ifmobile. Click button “Edit” behind ifmobile. Set “Enabled” to checked to use this interface in Load Balancing. After configuring is done, click button “Save & Apply”.

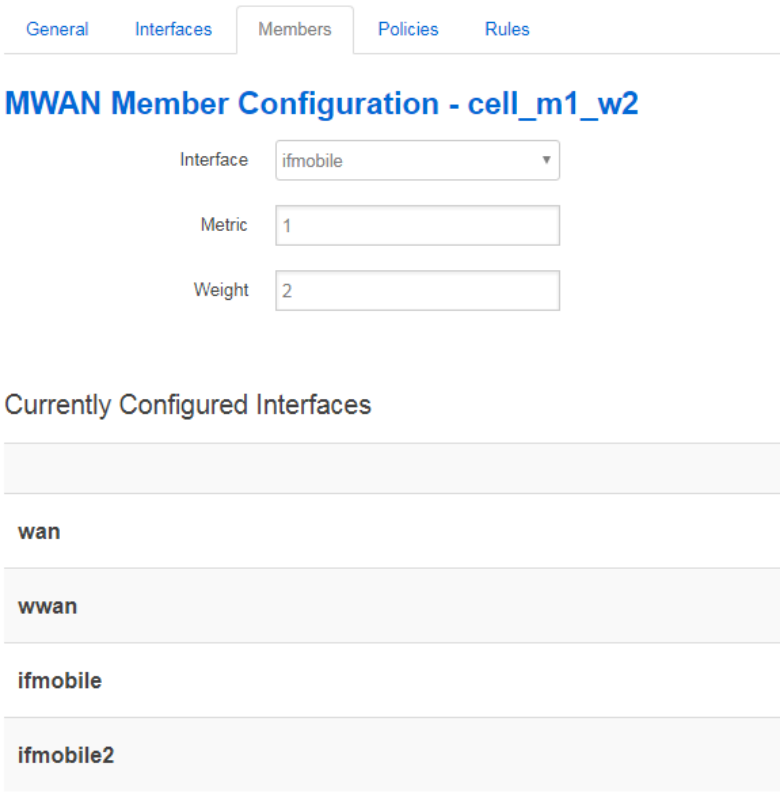


5. Goto Configuration → Members page.

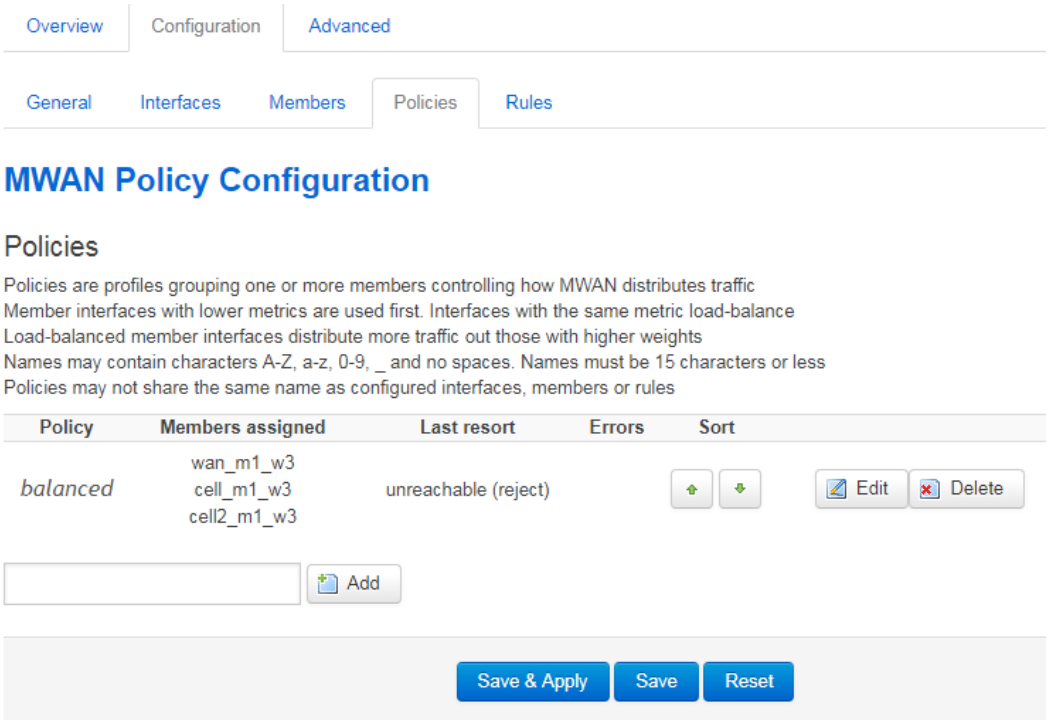


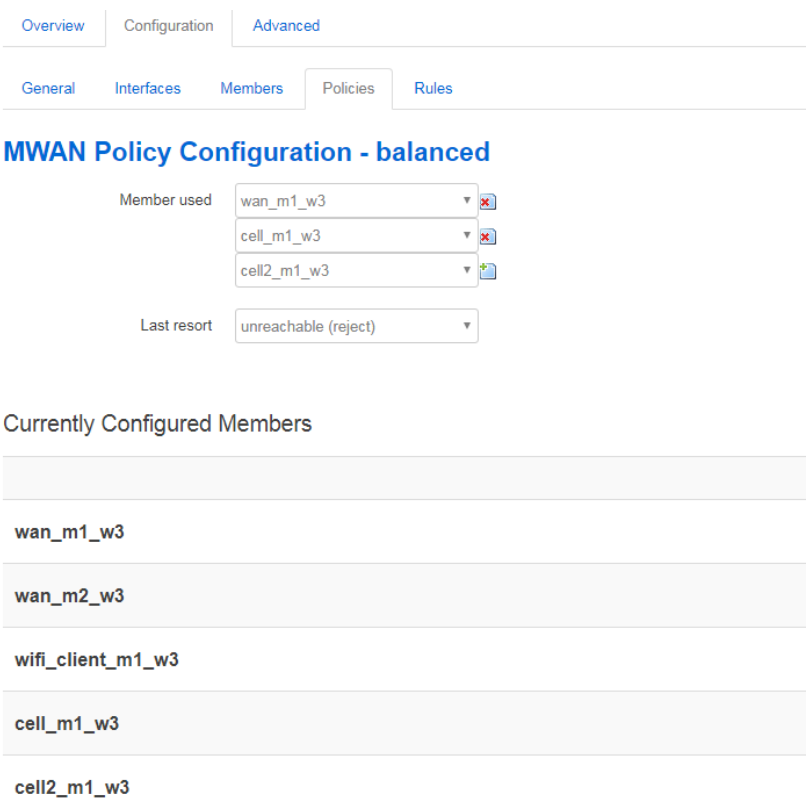
6. If you don't want to use these existed member, input member name and click button "Add".

7. Select interface and add metric and weight. Then click button "Save & Apply".



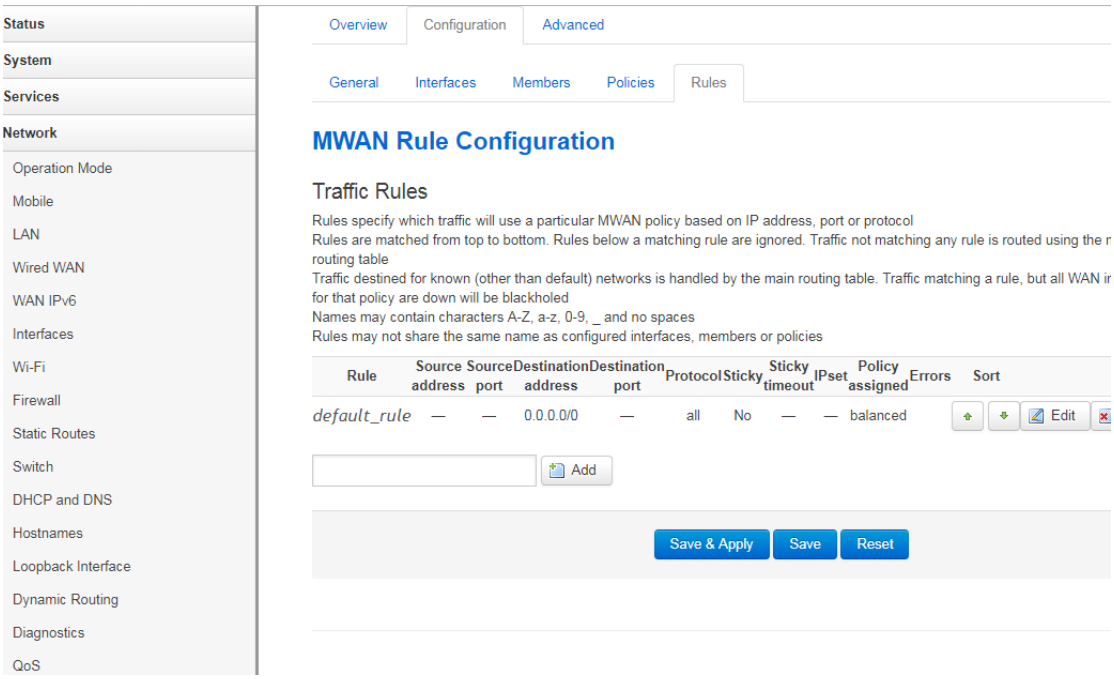
8. Goto Configuration → Policies to edit the existed policy “balanced”.

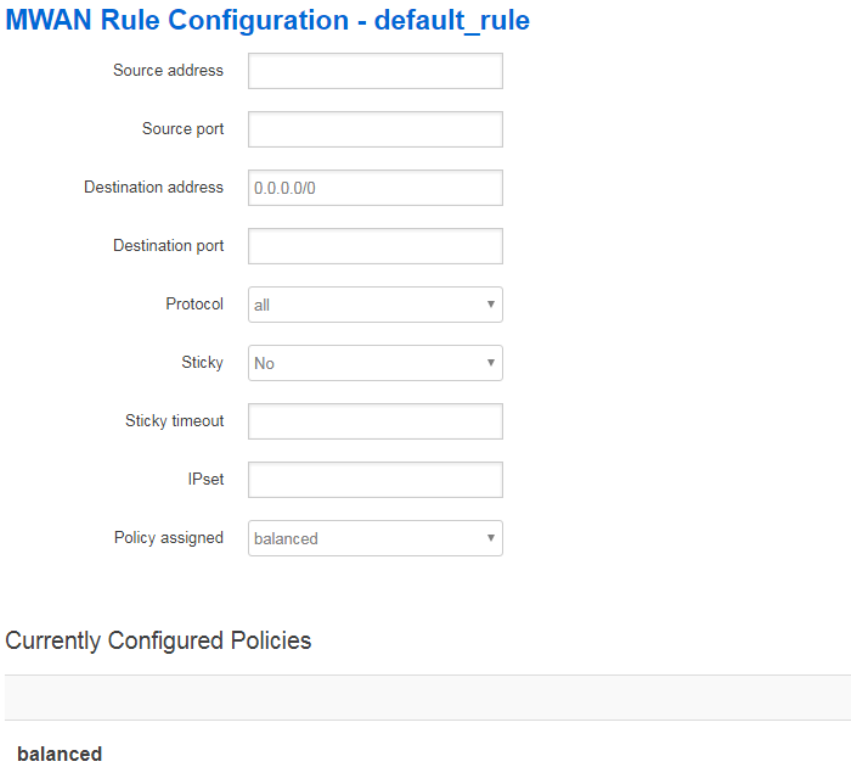




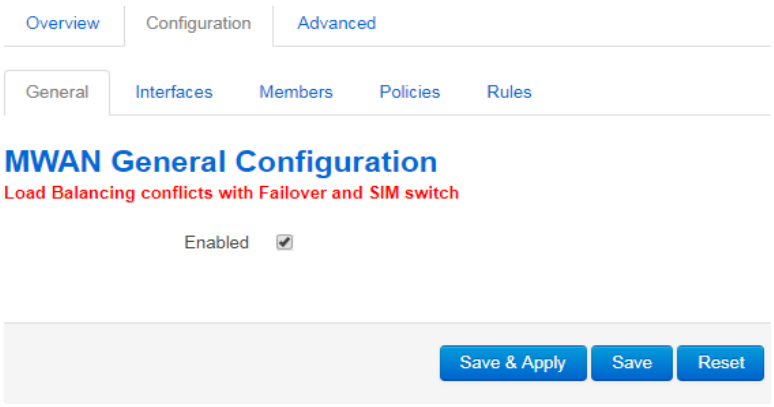
9. Remove member cell_m1_w3 by click  after “cell_m1_w3”. And new member cell_m1_w2 by click  .
10. Now we have 3 members in this policy, interfaces distribute more traffic out those with higher weights. Now wan and ifmobile2 have weight 3,ifmobile has weight 2.that means if all 3 interfaces are online, then wan and ifmobile2 has 3/8 traffic out, ifmobile has 2/8 traffic out .

    Notice: all member in the same policy for Load Balancing should have same metric. Otherwise Load Balancing will use lower metric firstly.
11. Goto Configuration → Rules to edit default_rule

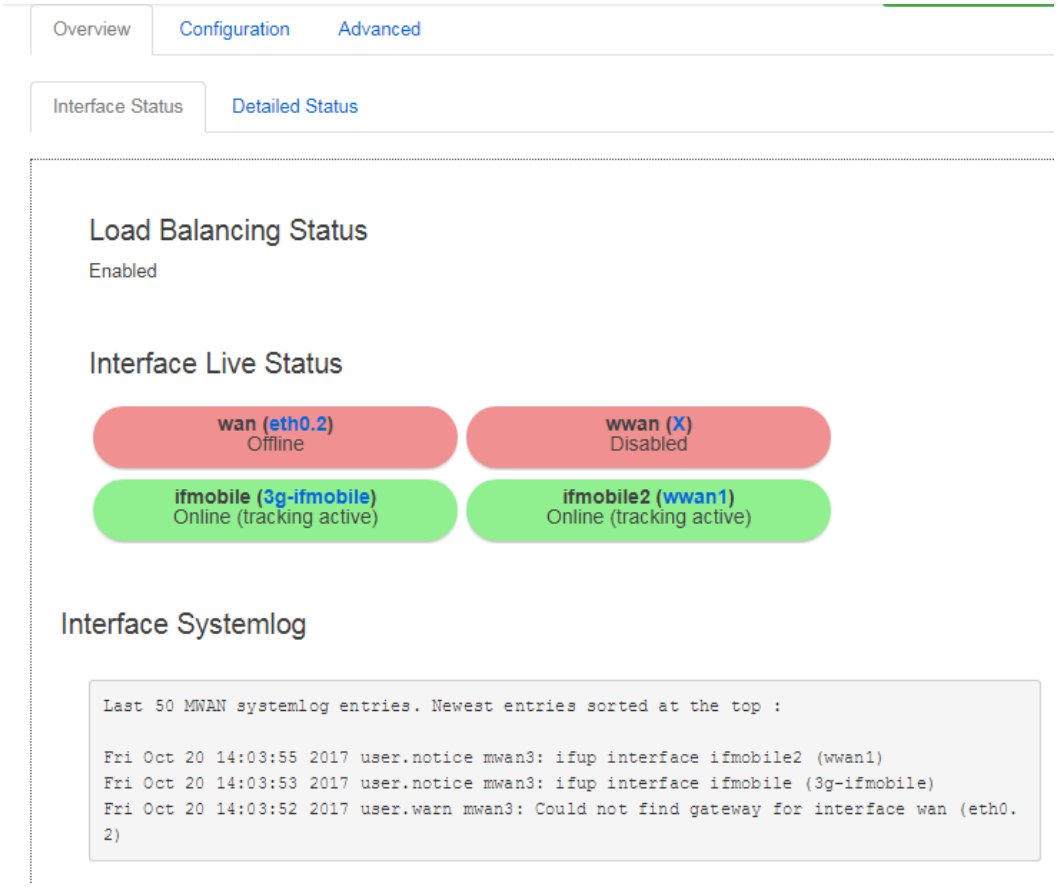




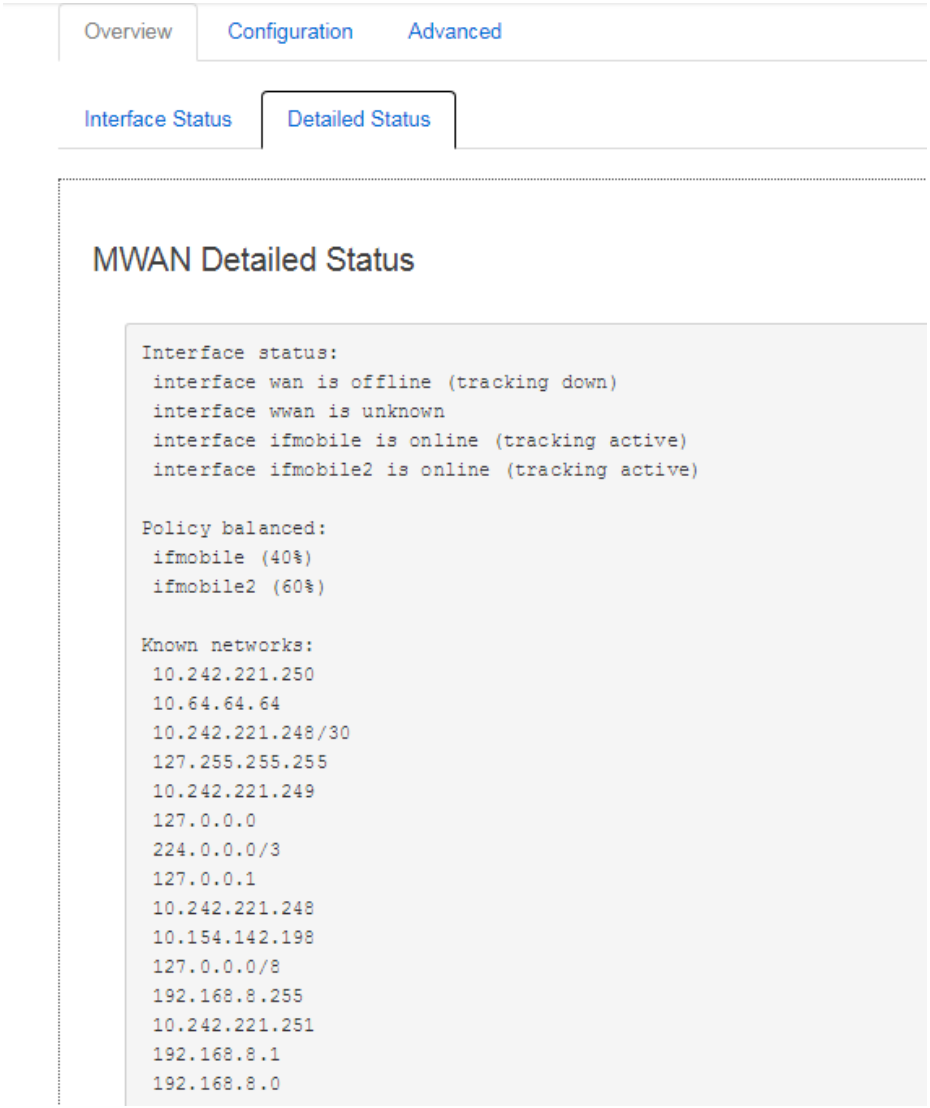
12. If everything is done, goto Configuration → General to enable Load Balancing.



13. Goto Overview → Interface Status to check.

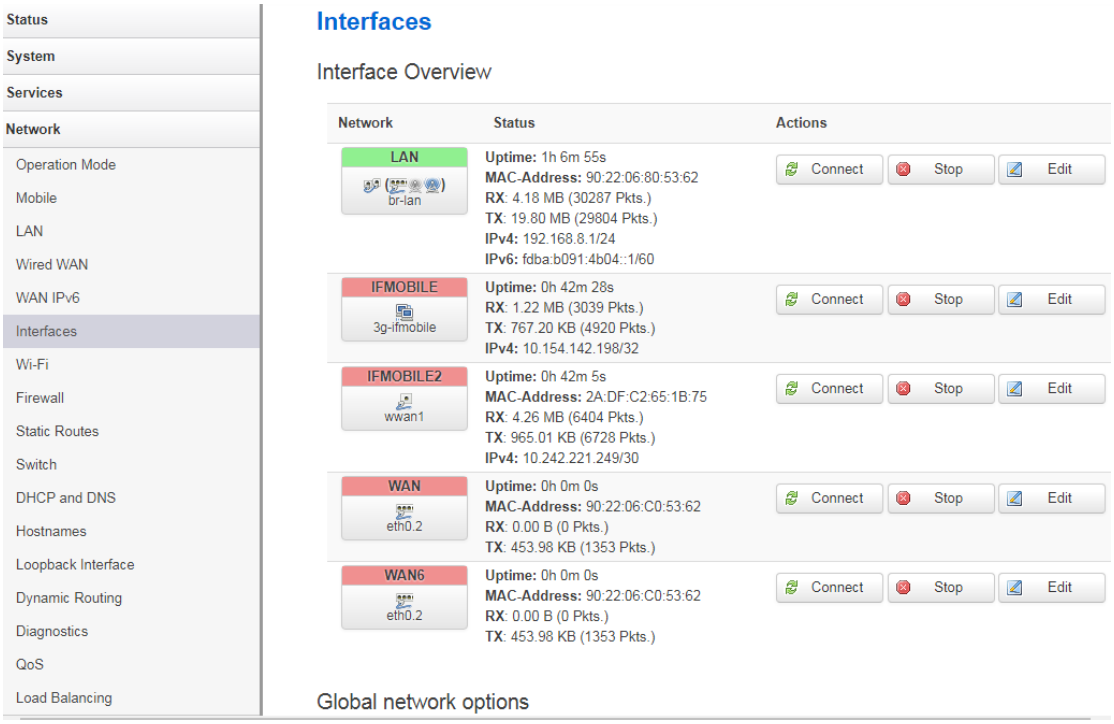


14. Goto Overview → Detail Status.Now only ifmobile and ifmobile2 are online, so ifmobile has 40%(2/5) traffic with weight 2, and ifmobile2 has 60%(3/5) with weight 3.

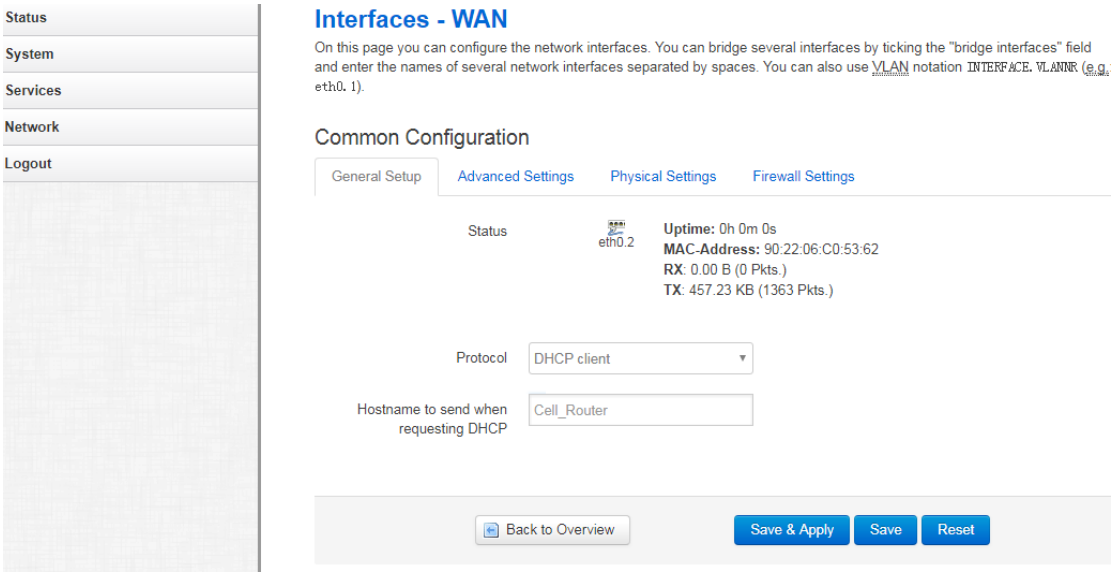


How to config metric for interface wan and wwan.

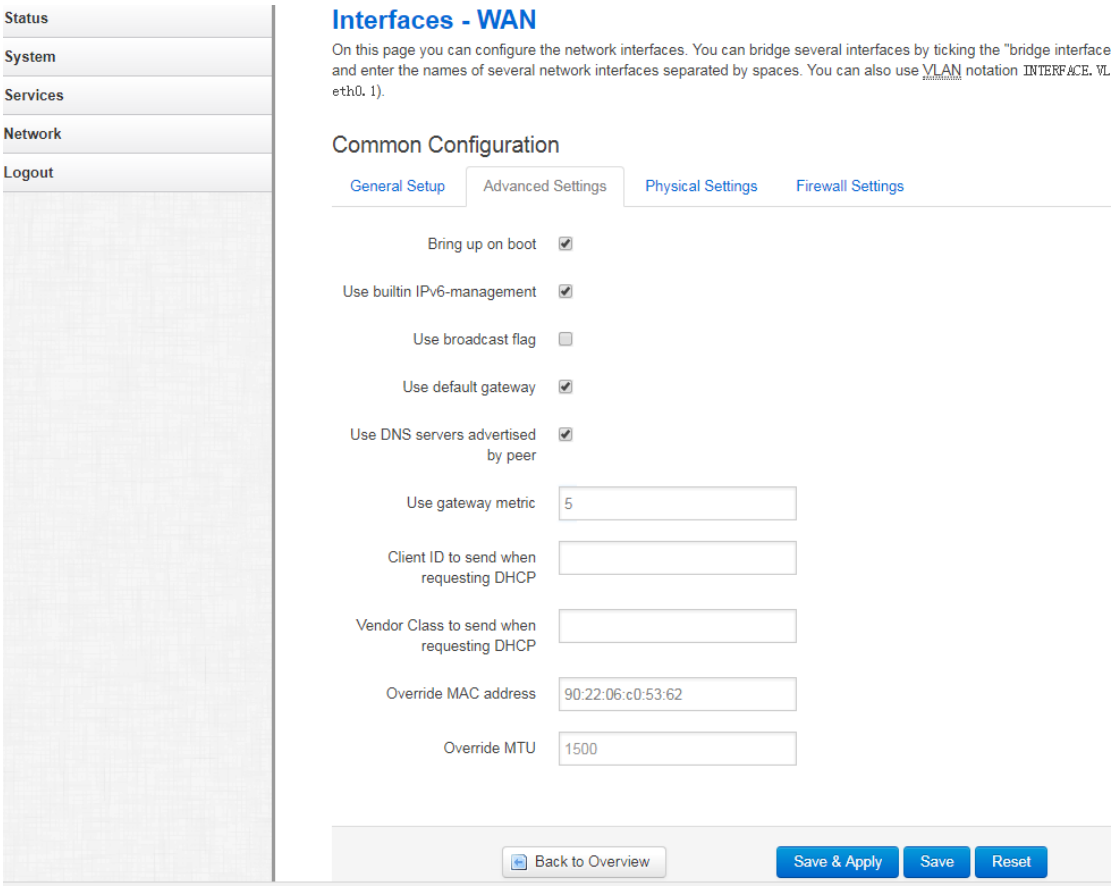
1. Goto network → interface.



2. Find wan or wwan, click button “Edit”.



3. Goto Advanced Settings. Change “Use gateway metric” from 0 to 5. Then click button save & apply.


Status
System
Services
Network
Logout
Interfaces - WAN
On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interface and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VL eth0.1).
Common Configuration
General Setup
Advanced Settings
Physical Settings
Firewall Settings
Bring up on boot
Use builtin IPv6-management
Use broadcast flag
Use default gateway
Use DNS servers advertised by peer
Use gateway metric
5
Client ID to send when requesting DHCP
Vendor Class to send when requesting DHCP
Override MAC address
90:22:06:c0:53:62
Override MTU
1500
Back to Overview
Save & Apply
Save
Reset