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## Use the Load Balancing and Failover at the Same Time

if wired-wan is connecting to internet, using wired-wan as wan interface. If wired-wan is down, using cell and cell2 as wan interface, and enable load balancing on these 2 interfaces.

1. config wired-wan metric(Use gateway metric) to 10.

The screenshot displays the Mikrotik WinBox interface for configuring WAN interfaces. On the left is a navigation menu with categories: Status, System, Services, and Network. Under Network, options include Operation Mode, Mobile, LAN, Wired WAN, WAN IPv6, Interfaces, Wi-Fi, Firewall, Static Routes, Switch, DHCP and DNS, Hostnames, Loopback Interface, Dynamic Routing, and Disaggregation. The main content area is titled 'Interfaces - WAN' and contains a description: 'On this page you can configure the network interfaces. You can bridge several interface interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR'. Below this is the 'Common Configuration' section with four tabs: 'General Setup' (selected), 'Advanced Settings', 'Physical Settings', and 'Firewall Settings'. The 'General Setup' tab contains several configuration items: 'Bring up on boot' (checked), 'Use builtin IPv6-management' (checked), 'Use broadcast flag' (unchecked), 'Use default gateway' (checked), 'Use DNS servers advertised by peer' (checked), 'Use gateway metric' (input field with value '10'), 'Client ID to send when requesting DHCP' (empty input field), and 'Vendor Class to send when requesting DHCP' (empty input field).

2. disable simswitch (set Enable SIM switch to unchecked)

3. Goto Load balancing, set the metric from 1 to 2 of default members cell\_m1\_w3,cell2\_m1\_w3 . Or create member cell\_m2\_w3 and cell2\_m2\_w3, then assign then to policy “balanced”. Keep metric of wan\_m1\_w3 to 1.

Member	Interface	Metric	Weight	Sort
wan_m1_w3	wan	1	3	+
wan_m2_w3	wan	2	3	+
wifi_client_m1_w3	wwan	1	3	+
cell_m1_w3	ifmobile	2	3	+
cell2_m1_w3	ifmobile2	2	3	+

4. enable Load balancing

Overview

Configuration

Advanced

General

Interfaces

Members

Policies

Rules

## MWAN General Configuration

Load Balancing conflicts with Failover and SIM switch

Enabled

Save & Apply

5. check status when wired-wan is connected.

Overview

Configuration

Advanced

Interface Status

Detailed Status

### Load Balancing Status

Enabled

### Interface Live Status

wan (eth0.2)

Online (tracking active)

wwan (X)

Disabled

ifmobile (wwan0)

Online (tracking active)

ifmobile2 (usb0)

Online (tracking active)

### Interface Systemlog

Overview Configuration Advanced

Interface Status Detailed Status

## MWAN Detailed Status

```
Interface status:  
interface wan is online (tracking active)  
interface wwan is unknown  
interface ifmobile is online (tracking active)  
interface ifmobile2 is online (tracking active)
```

```
Policy balanced:  
wan (100%)
```

```
Known networks:  
10.216.136.121  
127.0.0.0/8  
192.168.8.0/24  
10.216.136.120/30  
10.227.181.88  
192.168.1.255  
10.227.181.95  
10.227.181.92  
192.168.1.1  
192.168.1.0/24  
127.0.0.1  
10.216.136.120  
127.0.0.0
```

6. check status when wired-wan is disconnected

Overview Configuration Advanced

Interface Status Detailed Status

## Load Balancing Status

Enabled

## Interface Live Status



## Interface Systemlog

Last 50 MWAN systemlog entries. Newest entries sorted at the top :

```
Wed Nov 1 13:56:37 2017 user.notice mwan3: ifdown interface wan (eth0.2)  
Wed Nov 1 13:56:37 2017 user.notice mwan3track: Interface wan (eth0.2) is offline  
Wed Nov 1 13:55:08 2017 user.notice mwan3: ifup interface ifmobile2 (usb0)
```

## MWAN Detailed Status

### Interface status:

```
interface wan is offline (tracking active)
interface wwan is unknown
interface ifmobile is online (tracking active)
interface ifmobile2 is online (tracking active)
```

### Policy balanced:

```
ifmobile2 (50%)
ifmobile (50%)
```

### Known networks:

```
192.168.1.255
224.0.0.0/3
10.216.136.121
10.227.181.92
10.227.181.88
127.0.0.0
192.168.8.0
10.216.136.120/30
192.168.8.1
127.0.0.1
```