

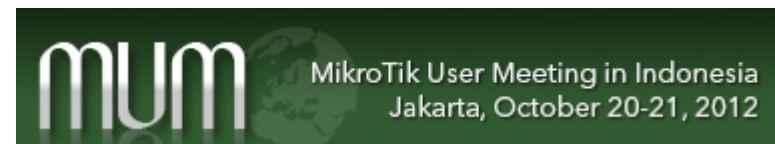
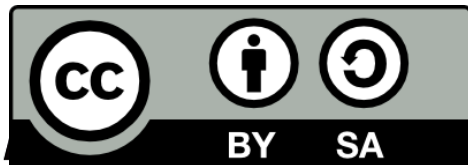


# Webfig & Quickset

by: **Pujo Dewobroto**

Citraweb Nusa Infomedia, Indonesia

[www.mikrotik.co.id](http://www.mikrotik.co.id)



# Introduction

- **Pujo Dewobroto** – pujo@mikrotik.co.id
- Company : Citraweb Nusa Infomedia
  - Mikrotik distributor , training partner
    - [www.mikrotik.co.id](http://www.mikrotik.co.id)
  - Wireless ISP
    - [www.citra.net.id](http://www.citra.net.id)
  - Web developer
    - [www.citra.web.id](http://www.citra.web.id)
- Mikrotik support and trainer
  - MTCNA , MTCTCE , MTCWE , MTCRE , MTCUME,  
Certified Trainer

# Quickset

- Dalam sebuah menu sudah mewakili setting dasar (“sesederhana mungkin”) yang diperlukan untuk konfigurasi wireless router
- CPE mode (> ROS 5.12)
  - Untuk Routerboard min lv3 sebagai client wireless
- AP mode (> ROS 5.15)
  - Untuk Routerboard min lv4 sebagai access point wireless
- PTP bridge mode (> ROS 5.21)
  - Untuk membuat koneksi point to point wireless

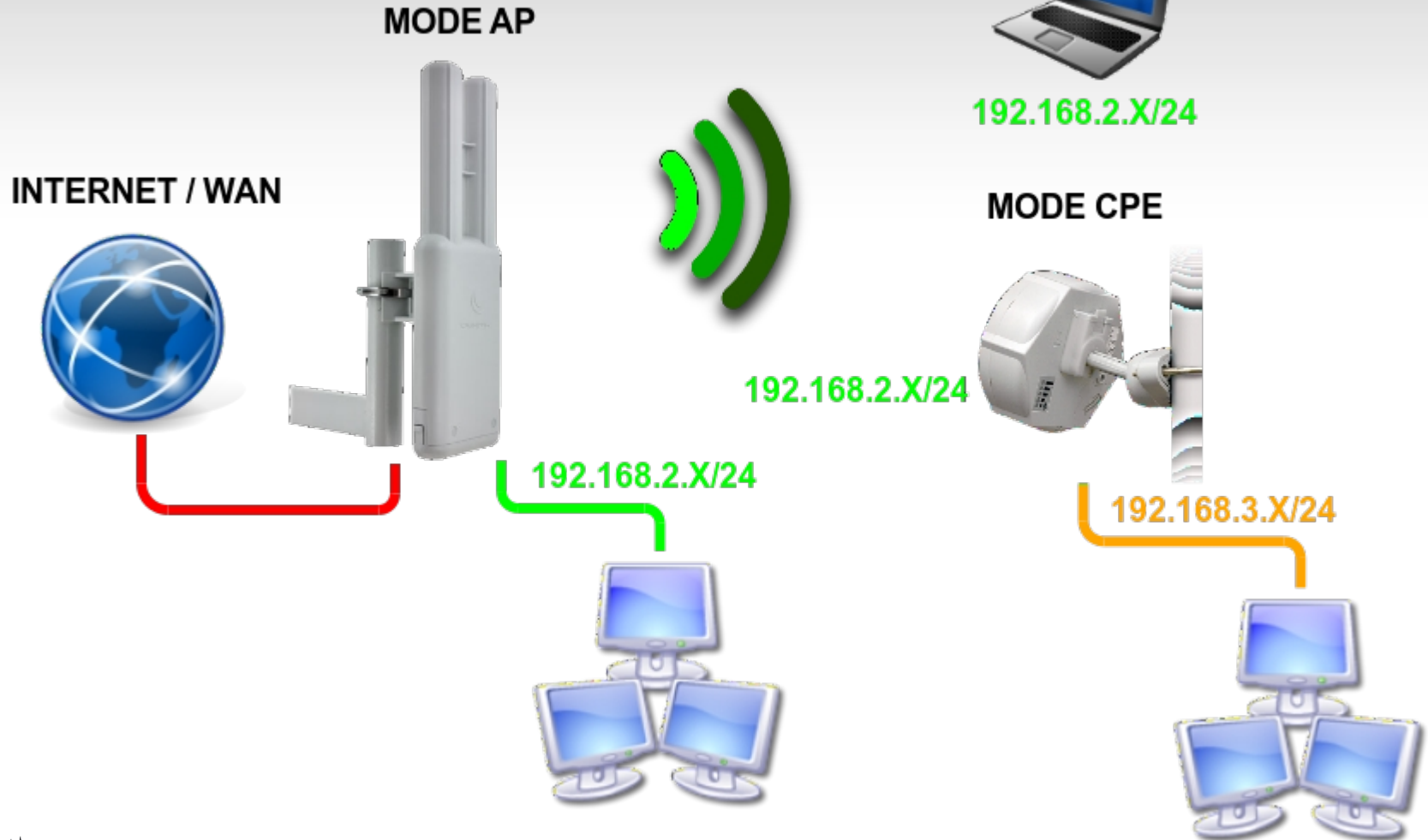
# Quickset bisa diakses dari browser ataupun winbox

The screenshot shows the MikroTik Quick Set web interface accessed via a browser. The browser title is "MikroTik - Quick Set at admin@192.168.88.1 - Webfig v5.20 on RB951-2n (mipsbe) - Mozilla Firefox". The address bar shows "192.168.88.1/webfig/".

The interface is divided into several sections:

- Left Sidebar:** A navigation menu with options like Quick Set, Interfaces, Wireless, Bridge, PPP, Mesh, IP, MPLS, Routing, System, Queues, Files, Log, Radius, Tools, New Terminal, Make Supout.rif, Undo, Redo, Hide Menu, Hide Passwords, Safe Mode, Design Skin, Manual, WinBox, and Graphs.
- Top Right:** "WebFig v5.20" and "CPE Quick Set".
- Info Section:** Displays WLAN MAC Address (D4:CA:6D:2B:AE:9A) and LAN MAC Address (D4:CA:6D:2B:AE:95).
- Wireless Section:** Includes a "Country" dropdown menu set to "no\_country\_set" and a "Channel Width" dropdown menu set to "20MHz".
- Table:** A table showing wireless network details with columns: Address, SSID, Band, Proto..., Freq..., and Signal Strength. The table contains several rows of data, including SSIDs like "Mikrotik-Kar", "Mikrotik-Tan", "petung", and "test\_RMA\_2".
- Configuration Section:** Contains settings for Mode (Router selected), Address Acquisition (Static selected), WLAN IP Address (0.0.0.0/0), Gateway (0.0.0.0), DNS Servers, Upload/Download speeds (unlimited), LAN IP Address (0.0.0.0/0), DHCP Server, NAT, Router Identity (MikroTik), and Password.

# Routing Network



# Routing Network - AP Mode

- WLAN1 akan berfungsi sebagai access point untuk jaringan lokal (LAN)
- Ether1 akan berfungsi sebagai port yang terhubung fisik ke provider internet (WAN)
- Pada perangkat Routerboard multi ethernet (ex : OmniTik) , aktifkan “Bridge All Lan Port”

# Routing Network - AP Mode

The screenshot shows the WinBox configuration window for a MikroTik device in AP mode. The window title is "admin@192.168.88.1 (MikroTik) - WinBox v5.20 on RB951-2n (mipsbe)". The interface is divided into several sections:

- Quick Set:** A dropdown menu is set to "AP".
- Wireless:** SSID is "MikroTik-MUM", Frequency is 2437 MHz, Band is 2GHz-B/G, Channel Width is 20MHz, and Country is "no\_country\_set".
- Security:** WPA and WPA2 are unchecked. Encryption is set to "aes ccm". A Pre-Shared Key field is present.
- Wireless Clients:** A table with columns for MAC Address, In ACL, and Last IP.
- Configuration:** Mode is set to "Router".
- WAN:** Address Acquisition is "Static". WAN IP Address is 192.168.1.2/24, Gateway is 192.168.1.1, and DNS Servers is 192.168.1.1. MAC Address is D4:CA:6D:2B:AE:95.
- LAN/WLAN:** LAN IP Address is 192.168.2.1/24. "Bridge All LAN Ports", "DHCP Server", and "NAT" are checked. DHCP Server Range is 192.168.2.2-192.168.2.254.
- System:** Router Identity is "MikroTik-MUM". Password and Confirm Password fields are masked with asterisks.

Buttons for "OK", "Cancel", "Apply", and "Reset Configuration" are visible on the right side of the configuration panel.

# Routing Network - CPE Mode

- WLAN1 akan berfungsi sebagai station / client yang akan terhubung ke provider internet (WAN)
- Ether1 akan berfungsi sebagai port lokal network (LAN)
- Pada mode ini kita juga bisa langsung menentukan limitasi bandwidth yang melalui WAN port (WLAN1)



# Routing Network - CPE Mode

admin@192.168.88.1 (MikroTik-MUM) - WinBox v5.20 on RB951-2n (mipsbe)

Safe Mode  Hide Passwords

Quick Set CPE Quick Set

Interfases

Wireless

Bridge

PPP

Switch

Mesh

IP

MPLS

Routing

System

Queues

Files

Log

Radius

Tools

New Terminal

MetaROUTER

Make Supout.rif

Manual

Exit

RouterOS WinBox

– Info –

WLAN MAC Address: D4:CA:6D:2B:AE:9A

LAN MAC Address: D4:CA:6D:2B:AE:95

– Wireless –

Status: connected to ess

AP MAC: 00:0C:42:61:B8:55

SSID: Mikrotik-MUM

Tx/Rx Signal Strength: -19/-24 dBm

Tx/Rx CCQ: 94/100 %

Signal To Noise: 89 dB

Wireless Protocol: 802.11

Rx Signal: -24 dB

Tx Signal: -19 dB

Disconnect

– Configuration –

Mode:  Router  Bridge

– WLAN –

Address Acquisition:  DHCP  PPPoE  Static

PPPoE User: pujo@mikrotik.co.id

PPPoE Password: emangkereen

PPPoE Service Name:

PPPoE Status: connected Reconnect

PPPoE IP Address: 10.100.100.2

Gateway: 10.100.100.1

Upload: 2M bits/s

Download: 2M bits/s

– LAN –

LAN IP Address: 192.168.3.1/24

DHCP Server

DHCP Server Range: 192.168.3.2-192.168.3.254

NAT

– System –

Router Identity: MikroTik-MUM

Password...

OK

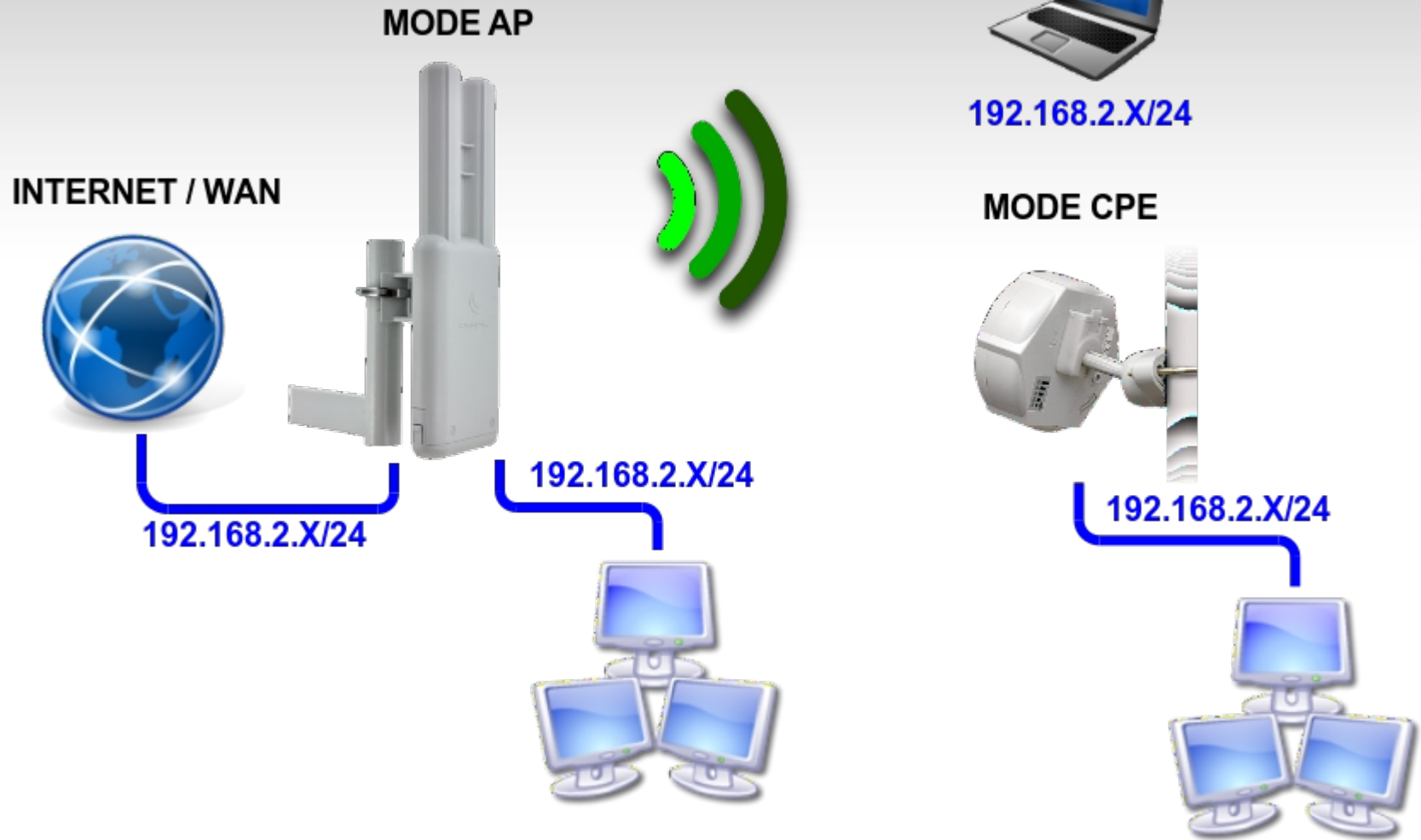
Cancel

Apply

# Routing Network

- AP + CPE Mode
  - Untuk koneksi ke internet, bisa menggunakan service PPPOE, DHCP ataupun static IP dari perangkat router
  - Aktifkan DHCP server dan NAT jika dibutuhkan

# Bridge Network



# Bridge Network

- Router hanya bisa akses ke internet apabila tipe jaringan dari provider menggunakan static IP
- Bisa kita anggap router kita hanya sebuah switch
- Autentikasi / koneksi internet antar client ke provider akan independent
- Untuk AP Mode, Pada perangkat Routerboard multi ethernet (ex : OmniTik) , aktifkan “Bridge All Lan Port”

# Bridge Network

The image shows two screenshots of the Mikrotik WinBox configuration interface. The top screenshot is for the 'AP' configuration, and the bottom screenshot is for the 'CPE' configuration. Both are set to 'Bridge' mode.

**AP Configuration:**

- Wireless: SSID: MikroTik-MUM, Frequency: 2412 MHz, Band: 2GHz-B, Channel Width: 20MHz, Country: no\_country\_set, MAC Address: D4:CA:6D:2B:AE:9A, Use ACL:
- Security: WPA  WPA2  Encryption: tkip  aes ccm  Pre-Shared Key:
- Wireless Clients: Table with columns: MAC Address, In ACL, Last IP, Uptime, Signal
- Configuration: Mode: Bridge, MAC Address: D4:CA:6D:2B:AE:95
- Bridge: IP Address: 192.168.2.2/24, Gateway: 192.168.2.1, DNS Servers: 192.168.2.1
- LAN/WLAN:  Bridge All LAN Ports
- System: Router Identity: MikroTik-MUM, Password: \*\*\*\*\*, Confirm Password: \*\*\*\*\*

**CPE Configuration:**

- Info: WLAN MAC Address: D4:CA:6D:2B:AE:9A, LAN MAC Address: D4:CA:6D:2B:AE:95
- Wireless: Country: no\_country\_set, Channel Width: 20MHz
- Table:

Address	SSID	Band	Protocol	Freq...	
00:02:6F:47:99:0B		2GHz-B 20MHz	802.11	2417	-4
00:02:6F:4A:10:F1		2GHz-B 20MHz	802.11	2442	-4
R 00:0C:42:61:B8:1D	Mikrotik-...	2GHz-B 20MHz	802.11	2437	-5
R 00:0C:42:61:B8:55	Mikrotik-...	2GHz-B 20MHz	802.11	2412	-5
R 00:0C:42:65:D9:69	Test_RM...	2GHz-B 20MHz	802.11	2437	-5
R 00:0C:42:66:9A:D5	Mikrotik-...	2GHz-B 20MHz	802.11	2412	-6
R 00:15:6D:B0:1C:41	IAP1	2GHz-B 20MHz	802.11	2457	-6
R 00:15:6D:E2:D3:12		2GHz-B 20MHz	802.11	2442	-6
P 00:23:CD:18:A0:26	KENARI_16	2GHz-B 20MHz	802.11	2457	-6

Configuration: Mode: Bridge, IP Address: 192.168.2.3/24, Gateway: 192.168.2.1, DNS Servers: 192.168.2.1

System: Router Identity: MikroTik-MUM, Password: \*\*\*\*\*, Confirm Password: \*\*\*\*\*

# Quickset Demo

# Webfig


- Fitur untuk mengakses router menggunakan web browser
  - setting
  - monitoring
  - troubleshooting
- Tersedia mulai RouterOS v5
- Winbox ♥ look & feel ♥
- Customizable Menu / Skin

RouterOS router configuration page - Opera

Opera RouterOS router co... x

Web 192.168.130.4

Search with Google








### RouterOS v5.20

You have connected to a router. Administrative access only. If this device is not in your possession, please contact your local network administrator.

WebFig Login:

Login:  Login

Password:

 Winbox  Telnet  Graphs  License  Help

© mikrotik





main menu

ro-tso - Interface List at admin@192.168.130.4 - Webfig v5.20 on RB493 (mipsbe) - Opera

Opera | ro-tso - Interface Li... x +

Web | 192.168.130.4/webfig/#Interfaces | Search with Google

WebFig v5.20

Interface List

Interface | Ethernet | EoIP Tunnel | IP Tunnel | GRE Tunnel | VLAN | VRRP | Bonding | LTE

Add New ▾

14 items

		Name	Type	L2 MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	Tx Drops	Rx Drops	Tx Errors	Rx Errors
-	D	wlan2	VirtualAP	2290	0 bps	0 bps	0	0	0	0	0	0
;;; wo utama												
D	R	wlan1	Wireless(Atheros 11N)	2290	3.6 Mbps	222.5 kbps	344	235	0	0	0	0
;;; ro utama												
-	D	R	vlan1	VLAN	1518	202.8 kbps	3.5 Mbps	218	332	0	0	0
D	R	ether9	Ethernet	1522	209.8 kbps	3.6 Mbps	218	332	0	0	0	0
;;; Backbone link dari meja test												
D		ether8	Ethernet	1522	0 bps	0 bps	0	0	0	0	0	0
D	R	ether7	Ethernet	1522	36.5 kbps	2.1 kbps	3	3	0	0	0	0
;;; switch local												
D	S	ether6	Ethernet	1522	0 bps	0 bps	0	0	0	0	0	0
D	S	ether5	Ethernet	1522	0 bps	0 bps	0	0	0	0	0	0
D	S	ether4	Ethernet	1522	0 bps	0 bps	0	0	0	0	0	0
D		ether3	Ethernet	1522	0 bps	0 bps	0	0	0	0	0	0
D		ether2	Ethernet	1522	0 bps	0 bps	0	0	0	0	0	0
D		ether1	Ethernet	1526	0 bps	0 bps	0	0	0	0	0	0
;;; Bridge backbone ke 130.1												

real time stats

ro-tso - Address List at admin@192.168.130.4 - Webfig v5.20 on RB493 (mipsbe) - Opera

ro-tso - Address List... x

Web 192.168.130.4/webfig/#IP:Addresses

WebFig v5.20

Address List

penunjuk menu aktif ←

add new rule →

3 items

	▲ Address	Network	Interface	
- D	192.168.130.4/28	192.168.130.0	vlan1	
- D	192.168.130.129/...	192.168.130.128	ether7	
- D	192.168.130.161/...	192.168.130.160	bridge1	

→ (-) remove / (D) disable / (E) enable

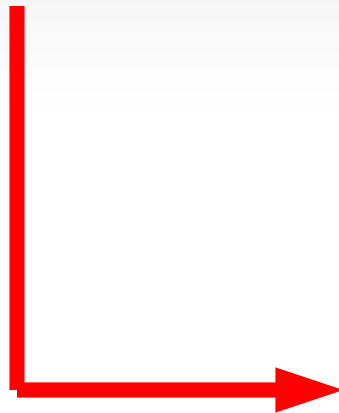
# Webfig Skin

- Berbeda dengan winbox, webfig bisa kita atur tampilannya, meliputi
  - menampilkan / menyembunyikan menu dan item
  - membatasi pilihan sebuah parameter option
  - merubah bahasa
  - menambahkan custom halaman status (v5.7)
  - menambahkan catatan / penjelasan sebuah item
- Skin bisa berbeda antar user dan bisa dipindah-pindahkan ke router yang lain



# Skin Mode ??

Aktifkan **DESIGN SKIN**



- Undo
- Redo
- Hide Menu
- Hide Passwords
- Safe Mode
- Design Skin**
- Manual
- WinBox
- Graphs
- End-User License

**pilih skin yang akan diedit**

WebFig v5.20

Skin: default Name: default Save Revert Reset

Interface List

		▲ Name	Type	L2 MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	Tx Drops	Rx Drops	Tx Errors	Rx Errors
<input type="checkbox"/>		ether1	Ethernet	1600	0 bps	0 bps	0	0	0	0	0	0
<input type="checkbox"/>	R	ether2	Ethernet	1598	100.9 kbps	41.8 kbps	27	34	0	0	0	0
<input type="checkbox"/>		ether3	Ethernet	1598	0 bps	0 bps	0	0	0	0	0	0
<input type="checkbox"/>		ether4	Ethernet	1598	0 bps	0 bps	0	0	0	0	0	0

**uncheck untuk item yang tidak ingin ditampilkan**

# Translate item

**sebelum**

<input checked="" type="checkbox"/> Safe Mode
Design Skin
<input checked="" type="checkbox"/> Manual
<input checked="" type="checkbox"/> WinBox
<input checked="" type="checkbox"/> Graphs
<input checked="" type="checkbox"/> End-User Licens
<input checked="" type="checkbox"/> Logout



**sesudah**

<input checked="" type="checkbox"/> Mode Aman
Design Skin
<input checked="" type="checkbox"/> WDMD
<input checked="" type="checkbox"/> Undu WinBox
<input checked="" type="checkbox"/> Grafik
<input checked="" type="checkbox"/> EULA
<input checked="" type="checkbox"/> Keluar Webfig

# Item Action

Make Read Only

Add Note

Add Limit

Add To Status Page

Add Tab

Add Separator

Jika kita tekan tombol segitiga disebelah kiri sebuah parameter muncul item action :

- Make read only : Item tidak bisa dirubah nilainya
- Add note : Menambahkan keterangan tambahan
- Add limit : Membatasi pilihan yang bisa digunakan
- Add to status page : Menambahkan item pada halaman status
- Add tab : Menambahkan garis batas diatas item dengan label
- Add separator : Menambahkan garis diatas item tanpa label



make read only

add note

add limit

tidak ditampilkan

<input checked="" type="checkbox"/>	Enabled	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Address	192.168.90.1/24
	Note	Jangan lupa pasang prefix ya
<input checked="" type="checkbox"/>	Network	192.168.90.0
<input checked="" type="checkbox"/>	Interface	ether3
	Limit	ether2, ether3, ether4, ether5
<input type="checkbox"/>	Comment	

Enabled	<input checked="" type="checkbox"/>
Address	192.168.90.1/24
	Jangan lupa pasang prefix ya
Network	192.168.90.0
Interface	ether3
	ether2
	ether3
	ether4
	ether5

# Status Page

- Mulai versi 5.7, kita bisa membuat halaman custom status
- Bisa digunakan untuk menampilkan parameter-parameter tertentu dari berbagai menu kedalam sebuah menu khusus
- Halaman status bisa tersusun dalam 2 kolom dan juga bisa kita atur urutan parameternya
- Tinggal pilih “add to status page” pada item action
- Berguna untuk memberikan informasi ke customer tanpa perlu tahu detail settingan router kita

MikroTik - Status at customer@192.168.30.1 - Webfig v5.20 on RB951-2n (mipsbe) - Opera

Opera MikroTik - Status at... x

Web 192.168.30.1/webfig/#Status

Search with Google

**WebFig v5.20**

**Status**

Status  
Tools  
Logout

Status Wireless Link		IP Lokal Anda	
<b>running</b>	<input checked="" type="checkbox"/>	<b>Address</b>	192.168.30.1/24
<b>Tx/Rx Rate</b>	11.0Mbps/1.0Mbps	<b>Network</b>	192.168.30.0
<b>SSID</b>	Mikrotik-Karyawan	<b>Rate</b>	100Mbps
<b>Tx/Rx Signal Strength</b>	-41/-62 dBm	<b>Interface</b>	ether2
<b>Tx/Rx CCQ</b>	39/38 %	<b>Tx/Rx Rate</b>	93.2 kbps/18.8 kbps
IP dari Provicer		Resource router anda	
<b>IP Address</b>	192.168.130.183/27	<b>Uptime</b>	00:44:04
<b>Gateway</b>	192.168.130.161	<b>Free Memory</b>	16.5 MiB
<b>Primary DNS</b>	192.168.130.4	<b>CPU Load</b>	6 %
<b>Primary NTP</b>	111.92.175.248	<b>Free HDD Space</b>	30.6 MB

# Skin Management

- Skin tersimpan di menu FILES dengan format \*.json
- File \*.json tersebut bisa kita import ataupun export ke router yang lain
- Jika skin berantakan, tinggal tekan tombol reset ataupun menghapus file \*.json

- Wireless
- Bridge
- PPP
- Mesh
- IP
- MPLS
- Routing
- System
- Queues
- Files**
- Log
- Radius
- Tools
- New Terminal
- Make Supout.nf
- ...

Backup Upload:  Choose...

10 items

	▲ File Name	Type	Size	Creation Time	
-	MikroTik-02011970-0129.backup	backup	9.8 KiB	Jan/02/1970 01:29:44	Download
-	ap-bridge-bridgeall.rsc	script	997 B	Jan/02/1970 00:04:20	Download
-	ap-router-static-dhcp-bridgeall-nat.rsc	script	1184 B	Jan/02/1970 00:23:24	Download
-	ap-router-static.rsc	script	741 B	Jan/02/1970 00:16:34	Download
-	cpe-bridge-bridgeall.rsc	script	870 B	Jan/02/1970 00:02:42	Download
-	cpe-router-static.rsc	script	754 B	Jan/02/1970 00:05:44	Download
-	pub	directory		Jan/02/1970 01:32:21	
-	skins	directory		Jan/01/1970 00:00:47	
-	skins/customer.json	.json file	2577 B	Jan/02/1970 18:15:43	Download
-	skins/teknisi.json	.json file	1625 B	Jan/02/1970 18:19:20	Download



# Skin Management

- Untuk mengaktifkan skin ke user tertentu, kita atur didalam menu System – User – Group
- Hanya user dengan policy “POLICY” tombol design skin aktif
- Skin bukan sebuah fitur security, tetap gunakan kebijakan policy yang strict untuk user anda

1

2

3

Quick Set

System ▾

Users

Undo

Redo

Hide Menu

Hide Passwords

Safe Mode

Design Skin

Manual

WinBox

Graphs

Users Groups SSH Keys SSH Private Keys Active Users

Add New

5 items out of 4

		▲ Name	Policies	Skin
-		customer	read, web	customer
-	S	full	local, telnet, ssh, ftp, reboot, read, write, policy, test, winbo	default
-	S	read	local, telnet, ssh, reboot, read, test, winbox, password, web,	default
-		teknisi	read, write, web	teknisi
-	S	write	local, telnet, ssh, reboot, read, write, test, winbox, passwor	default

OK Cancel Apply

not System

<b>Name</b>	customer	7	
<b>Policies</b>	<input type="checkbox"/> local	<input type="checkbox"/> telnet	
	<input type="checkbox"/> ssh	<input type="checkbox"/> ftp	
	<input type="checkbox"/> reboot	<input checked="" type="checkbox"/> read	6
	<input type="checkbox"/> write	<input type="checkbox"/> policy	
	<input type="checkbox"/> test	<input type="checkbox"/> winbox	
	<input type="checkbox"/> password	<input checked="" type="checkbox"/> web	5
	<input type="checkbox"/> sniff	<input type="checkbox"/> sensitive	
	<input type="checkbox"/> api		
	<b>Skin</b>	customer	4
	<b>Comment</b>		



System ▾

Users Groups SSH Keys SSH Private Keys Active Users

Undo Add New AAA

Redo

Hide Menu

Hide Passwords

Safe Mode

Design Skin

Manual

WinBox

Graphs

End-User License

Logout

3 items out of 2

	▲ Name	Group	Al
;;; system default user			
- D	admin	full	
- D	customerku	customer	
- D	teknisiku	teknisi	

OK Cancel Apply

**Enabled**

**Name** customerku

**Group** customer

**Allowed Address** ▾

**Password**

**Confirm Password**

**Comment**

# Webfig Demo

# Matur Suwun!

