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# Webfix Skins

Usage , Customizing , Example

Reza Moghadam  
MUM , India

MikroTik User Meeting  
New Delhi , 25 Aug 2012

*Mikro***Tik**

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# Reza Moghadam



Technical Manager , Sabanet [ DSL Service Provider ]

Technical Manager , Faranet [ Wireless Internet Service Provider ]

Lecturer in Universities [ Computer Sciences , MTCNA ]

MikroTik Certified Trainer

MikroTik Certified Academy Trainer

MikroTik Certified Consultant

MTCNA , MTCRE , MTCWE , MTCTCE , MTCUME , MTCINE

Certified as ...

Mcitp x2 ( Enterprise Administrator , Enterprise Messaging Administrator )

Novell x2 ( Certified Linux Administrator 11 , Data Center Technical Specialist )

Astaro Security x2 ( Astaro Certified Administrator , Astaro Certified Engineer )

Zyxel ZCNP x4 ( Security , Switching , Dslam , Wimax )

Lpic-1 , Juniper JNCIA-Junos , Mcse + Security

Mobile : +98 916 32 000 56

Email : R.Moghadam@Hotmail.Com

Reza Moghadam  
MUM , India

*MikroTik*

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## Webfig

- » What is Webfig ... !?
- » Usage ... !?
- » Example !

## Skins

- » What Is Skins ... !?
- » Usage ... !?
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## Skin Components

- » Separator
- » Tab
- » Limit
- » Note

## How to Create Skins !?

## How to Apply Skins !?

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# Webfig



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# Webfig is a Good Feature because :

Management Tools For Mikrotik RouterOS based on Web GUI .

Have Same Layout as Winbox and have access to all feature of RouterOs .

Directly accessible from Router without need additional software .

Manage your devices via Mobile Phones and all Operation Systems .

## Best Feature of Webfig :

You can issue different permission and access to Sections and Menu , Winbox cant do this .

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# Configuration

Use for change current configuration such as :

Add , Remove , Edit and View Current Configuration .

# Monitoring

Display Current Status of Router Such as :

Interface Graphs , CPU Usage , Resource Usage

Wireless Registration , Bandwidth , ...

# Troubleshooting

Use Built in Troubleshooting Tools Such as :

TCP/IP : Ping , Traceroute , IP Scan , ...

Wireless : Snooper , Freq Usage , ...

# Configuration : Add & View IP Address

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Interfaces

Bridge

Switch

PPP

Mesh

IP ▼

ARP

Accounting

Addresses

DHCP Client

DHCP Relay

DHCP Server

DNS

OK

Cancel

Apply

Remove

not invalid

Enabled



Address

100.100.100.1/24

Network ▲

100.100.100.0

Interface

ether2 ▼

Comment

Interfaces

Bridge

Switch

PPP

Mesh

IP ▼

ARP

Accounting

Addresses

DHCP Client

Add New

1 item

		▲ Address	Network	Interface	
-	D	100.100.100.1/24	100.100.100.0	ether2	

# Configuration : Add & View Queues

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New Terminal

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OK

Cancel

Apply

Reset Counters

Torch

not invalid

Enabled ☒

Name

Client 1

Target Address ▼

10.10.10.50 ▲

☒ Target Upload

☒ Target Download

Max Limit

128k ▼

256k ▼

Burst ▼

Time ▼

Simple Queues

Interface Queues

Queue Tree

Queue Types

Add New

Reset All Counters

1 item out of 0

		#	Name	Target Address	Rx Max Limit	Tx Max Limit	Packet Marks
-	D	0	Client 1	10.10.10.50/32	128k	256k	



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# Monitoring : View Interface & Graphs

Wireless	Interface	Ethernet	EoIP Tunnel	IP Tunnel	GRE Tunnel	VLAN	VRRP	Bonding	LTE
Interfaces	Add New ▼								
Bridge	10 items								
Switch									
PPP									
Mesh									
IP									
MPLS									
Routing									
System									
Queues									
Files									

		▲ Name	Type	L2 MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	Tx Drops	Rx Drops
D	R	Wireless	Wireless(Atheros 11N	2290	0 bps	1056 bps	0	2	0	0
D		ether1	Ethernet	1526	0 bps	0 bps	0	0	0	0
D	R	ether2	Ethernet	1522	50.5 Mbps	82.3 Mbps	4 151	6 788	0	0
D		ether3	Ethernet	1522	0 bps	0 bps	0	0	0	0

<b>Tx/Rx Rate</b>	44.6 Mbps	/	82.0 Mbps
<b>Tx/Rx Packet Rate</b>	3 670 p/s	/	6 757 p/s
<b>Tx/Rx Bytes</b>	2694.2 MiB	/	4609.5 MiB
<b>Tx/Rx Packets</b>	1 864 798	/	3 196 789
<b>Tx/Rx Drops</b>	0	/	0
<b>Tx/Rx Errors</b>	0	/	0

Byte Graph



Tx	cur: 44.6 Mbps	avg: 40.3 Mbps	max: 49.7 Mbps
Rx	cur: 82.0 Mbps	avg: 72.1 Mbps	max: 83.2 Mbps

# Troubleshooting : Use Ping & IP Scan

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BTest Server

Bandwidth Test

Start

Stop

Close

46 of 46 packets received | 0 % packet loss | Min: 0 ms | Avg: 0 ms | Max: 1 ms

Ping To

100.100.100.211 ▼

		#	Seq #	Host	Time	Reply Size	TTL	Status
		40	40	100.100.100.211	0	50	128	
		41	41	100.100.100.211	0	50	128	
		42	42	100.100.100.211	0	50	128	
		43	43	100.100.100.211	0	50	128	
		44	44	100.100.100.211	0	50	128	
		45	45	100.100.100.211	0	50	128	

Interfaces

Bridge

Switch

PPP

Mesh

IP ►

MPLS ►

Routing ►

System ►

Queues

Start

Stop

Close

Interface ▼

Address Range ▲

100.100.100.0/24

		#	Address	MAC Address	Time (ms)	DNS
		0	100.100.100.1		3	
		1	100.100.100.211		4	

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# Skin



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Graphical Interfaces to contact to webfig Service and access to Menus , Submenus , Fields and Options .

In Default , Webfig use Default Skin for Access to all Sections of RouterOS .

Make User Friendly Interface and Customize Webfig and Accessibility to different menus and submenus .

Make Skin Based on Policies and Permissions .

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Allow us to have some Additional Functionality we do not have in Winbox such as :

Add or Remove Some Fields and Options

Creating and Customize Status page

Translate Webfig to your Language

Rename Menus/Submenus and Fields , Options

Limit possible options in combo boxes

Add Notes and Description

Common Usage such as :

Give Simple Web Configuration Interface to Your Operator

Give Limited Access To Your Customers

Give Basic Status and Information to Your Customers

# Translate to your Language

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نمای کلی

سیستم

اینترفیس

پل

سوئیچ

نقطه به نقطه

مشن

آدرس ورژن 4 ▶

مسیریابی ▶

سیستم ▶

صف

فایل

وقایع

رادیوس

ابزارها ▶

ترمینال

آدرس ورژن 6 ▶

اینترفیس های پل

پورت ها

فیلتر ها

ترجمه آدرس

هاست ها

اضافه کردن

تنظیمات

2 items

		نام	نوع ▲	لایه دو MTU	
-	D	R	bridge1	Bridge	65535
-	D	R	bridge2	Bridge	65535

# Limiting Access to only PPP Active Session

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13 items

		▲ Name	Type	L2 MTU	Tx	Rx
-	DR	<pppoe-6113380459>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113380563>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113380862>	PPPoE Server		22.7 kbps	14.0 kbps
-	DR	<pppoe-6113382317>	PPPoE Server		0 bps	1632 bps
-	DR	<pppoe-6113383506>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113384456>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113385987>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113386880>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113386966>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113387744>	PPPoE Server		22.3 kbps	24.4 kbps
-	DR	<pppoe-6113912746>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113920449>	PPPoE Server		0 bps	0 bps
-	DR	<pppoe-6113921631>	PPPoE Server		44.0 kbps	11.6 kbps

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Reza Moghadam  
MUM , India

# Limiting Access , Description For Wireless

running ap | not running | not slave

**Enabled** ☒

**MAC Address** 00:0C:42:6C:93:10

**Name** Wireless

**Mode** ap bridge  
We Are Provider , Scan And Connect To Our SSID .

**Band** 2GHz-B/G/N  
We Can Provide Only 802.11 b/g/n ( 2.4 Ghz ) , So Use 2.4 Family ( B / G / N )

**Channel Width** 20MHz  
Use 20 Mhz Channel Width For Your Wireless Card .

**SSID** ▲ Webfig Web Skins  
Becareful Change SSID In One Side Down Wireless Link .

**Frequency** 2412 ▼ MHz  
You Are Able To Choose Channel 1 , 6 , 11 - [ Channel 1 : 2412 , Channel 6 : 2437 , Channel 11 : 2462 ]

*MikroTik*



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# Skin components

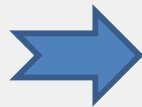
# Add Height Horizontal Line for Separate Between Option and Fields .

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User Information	
<b>Enabled</b>	<input checked="" type="checkbox"/>
<b>Name</b>	<pppoe-6113380459>
<b>Type</b>	PPPoE Server
<b>User</b>	6113380459
<b>Caller ID</b>	00:27:22:2C:E0:A8 This Field Display User MAC Address .
<b>Uptime</b>	1d 10:44:53

# Add Horizontal Line with Label For Title to Separate Between Options and Fields .



User Information	
<b>Enabled</b>	<input checked="" type="checkbox"/>
<b>Name</b>	<pppoe-6113380459>
<b>Type</b>	PPPoE Server
<b>User</b>	6113380459
<b>Caller ID</b>	00:27:22:2C:E0:A8 This Field Display User MAC Address .
<b>Uptime</b>	1d 10:44:53

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Limit Field and Allowed Values to Choose for Options and Fields .

Allowed Values Separated by Comma or Newline .

General

Name

Limited Queue

Target Address ▼

☒ Target Upload

☒ Target Download

Max Limit

512k

unlimited

256k

512k

unlimited



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# Add Comments and Descriptions for Fields and Options .

## User Information

<b>Enabled</b>	<input checked="" type="checkbox"/>
<b>Name</b>	<pppoe-6113380459>
<b>Type</b>	PPPoE Server
<b>User</b>	6113380459
<b>Caller ID</b>	00:27:22:2C:E0:A8 This Field Display User MAC Address .
<b>Uptime</b>	1d 10:44:53



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# Set Read Only Feature to Fields and Options .

General

**Name**

profile1

**Mode**

dynamic keys

**Authentication Types**

☒ WPA PSK

☒ WPA2 PSK

☐ WPA EAP

☐ WPA2 EAP

**Unicast Ciphers**

☒ aes ccm

☐ tkip

**Group Ciphers**

☒ aes ccm

☐ tkip

# Add a Status Menu In Top of Menus and Add Fields and Options to Status Page .

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New Terminal

Servers Interface Information

**Server Vlan Name** 02 - Server

Servers Vlan Information

**VLAN ID** 2

Servers Queue Information

**Upload / Download** 263.0 kbps/239.4 kbps

Servers IP Address Information

**Server's IP Address** 95.82.116.1/28

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# How to Create Skins





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Reza Moghadam  
MUM , India

# Login to your Router Webfig



## RouterOS v5.18

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:

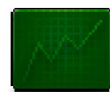
Password:



Winbox



Telnet



Graphs



License



Help

© mikrotik



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Reza Moghadam  
MUM , India

# Webfig Environment

MikroTik - Quick Set at admin@100.100.100.1 - Webfig v5.18 on RB493AH (mipsbe) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

100.100.100.1/webfig/#Quick\_Set

MikroTik - Quick Set at admin@100.100.100.1...

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MetaROUTER

Make Supout.rif

Undo

Redo

Hide Menu

Hide Passwords

Safe Mode

Design Skin

Wireless

SSID ▲ Webfig Web Skins

Frequency 2412 MHz

Band 2GHz-B/G/N

Channel Width 20MHz

Country no\_country\_set

MAC Address 00:0C:42:6C:93:10

Use ACL ☐

Security ☐ WPA ☐ WPA2

Encryption ☒ aes ccm ☐ tkip

Pre-Shared Key

Mode ☒ Router

Address Acquisition ☒ Static

WAN IP Address 0.0.0.0

Gateway 0.0.0.0

DNS Servers ▼

MAC Address 00:00:00:00:00:00

LAN IP Address 0.0.0.0

Bridge All LAN Ports ☐

DHCP Server ☐

NAT ☐

Router Identity MikroTik

Password

MAC Address	In ACL	Last IP	Uptime	Sig Str
-------------	--------	---------	--------	---------

MikroTik

# To Create Your Custom Skin , Go to Design Skin Mode .

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Hide Menu
Hide Passwords
Safe Mode
Design Skin
Manual
WinBox
Graphs
End-User License
Logout



# In this mode you can Customize your Skin

MikroTik - Interface <Wireless> at admin@100.100.100.1 - Webfig v5.18 on RB493AH (mipsbe) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

100.100.100.1/webfig/#Interfaces.Interface.10

MikroTik - Interface <Wireless> at admin@1... +

☒ Quick Set ☒ Wireless ☒ Interfaces ☒ Bridge ☒ Switch ☒ PPP ☒ Mesh ☒ IP ☒ MPLS ☒ Routing ☒ System ☒ Queues ☒ Files ☒ Log ☒ Radius ☒ Tools ☒ New Terminal ☒ IPv6 ☒ MetaROUTER ☒ Make Supout. ☒ Undo ☒ Redo ☒ Hide Menu ☒ Hide Password ☒ Safe Mode ☒ Design Skin

WebFig v5.18

Skin: default Name: default Save Revert Reset

Interface <Wireless>

☒ OK Cancel Apply ☒ Advanced Mode

☒ Scan... ☒ Freq. Usage... ☒ Align... ☒ Sniff...

☒ Snooper... ☒ Reset Configuration ☒ Torch

running ap ☒ not dynamic ☒ not running ☒ not slave

☒ Show By Default

☒ Enabled ☒

- General

☒ Name Wireless

☒ Type Wireless(Atheros 11N)

☒ MTU 1500

☒ L2 MTU 2290

☒ MAC Address 00:0C:42:6C:93:10

☒ ARP enabled

☒ Chip Info mac:0x80/0x2, phy:0xd0, a5:0xc0, a2:0x0, eeprom:0x0

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# Create a New Skin to Customize Skin

MikroTik - Interface <Wireless> at admin@100.100.100.1 - Webfig v5.18 on RB493AH (mipsbe) - ...

File Edit View History Bookmarks Tools Help

100.100.100.1/webfig/#Interfaces.Interface.10

MikroTik - Interface <Wireless> at admin@1... +

WebFig v5.18

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Skin: default Name: New Skin Save Revert Re

Interface <Wireless>

OK Cancel Apply

Advanced Mode Scan... Freq. Usage...

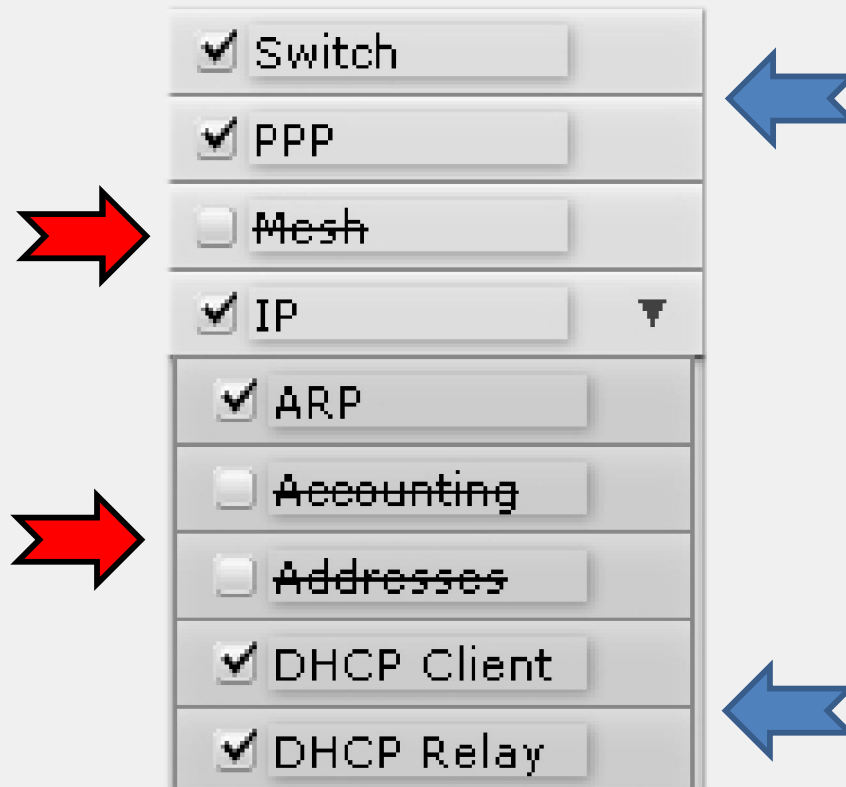
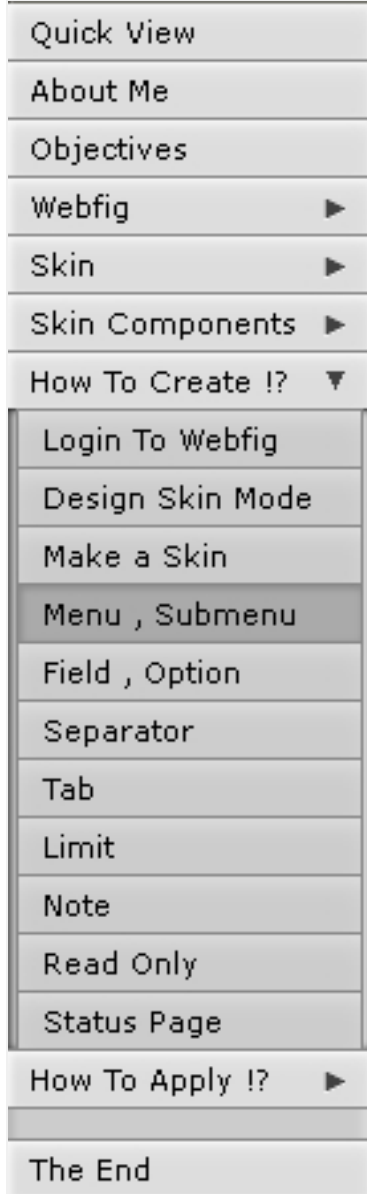
Align... Sniff... Snooper...


Reset Configuration Torch

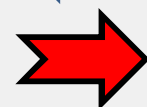
running ap not dynamic not running not slave

Show By Default

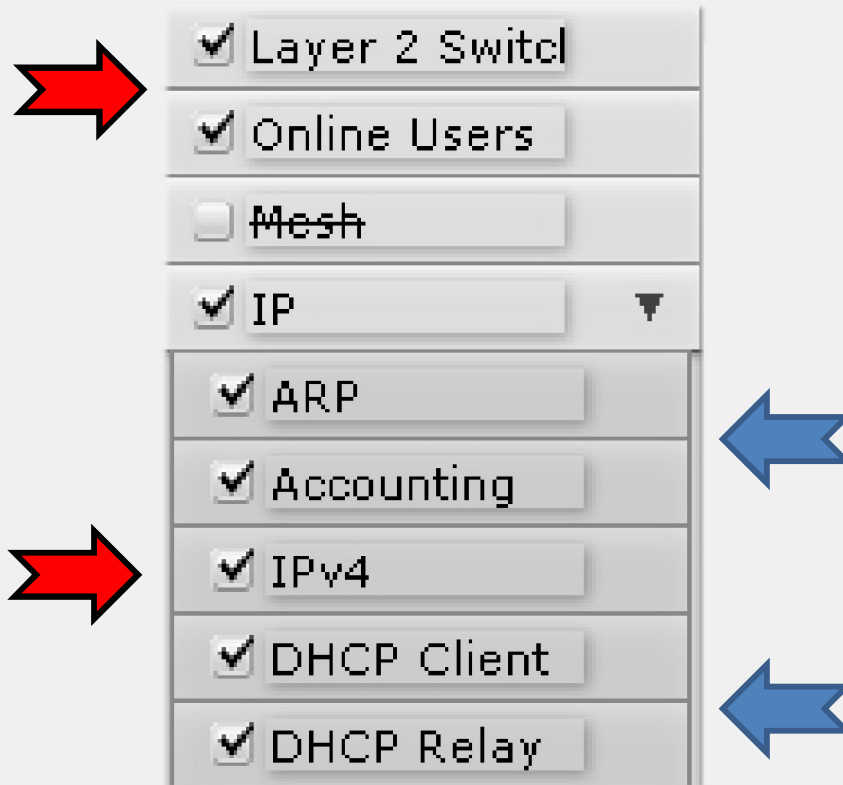
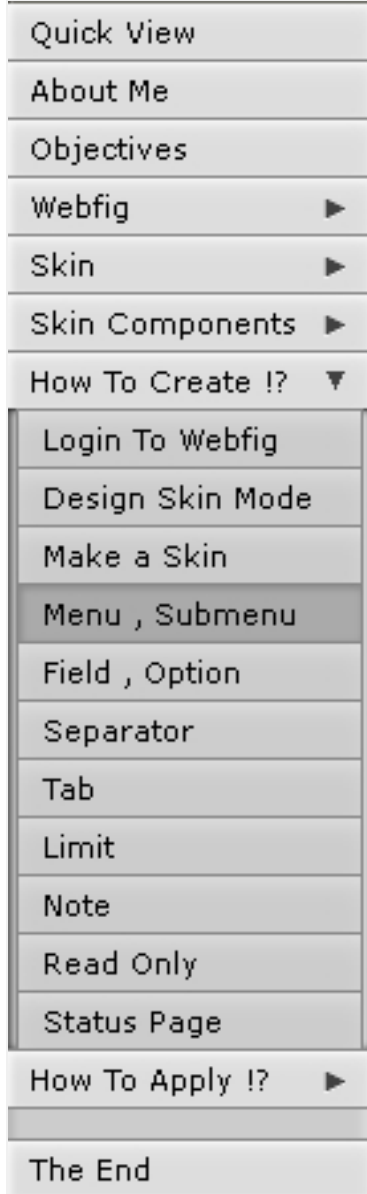
# You can Check / Uncheck Menus and Submenus to Give Access and Visible In this Skin .



 Menu / Submenu Checked : Are Visible in Skin

 Menu / Submenu Unchecked : Aren't Visible in Skin

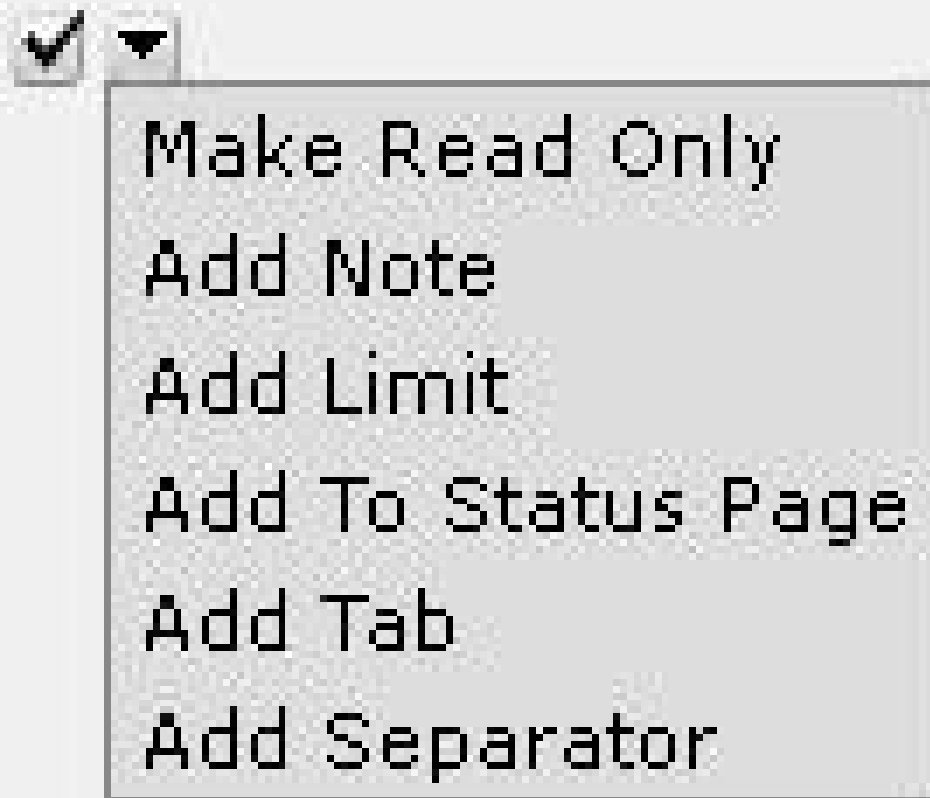
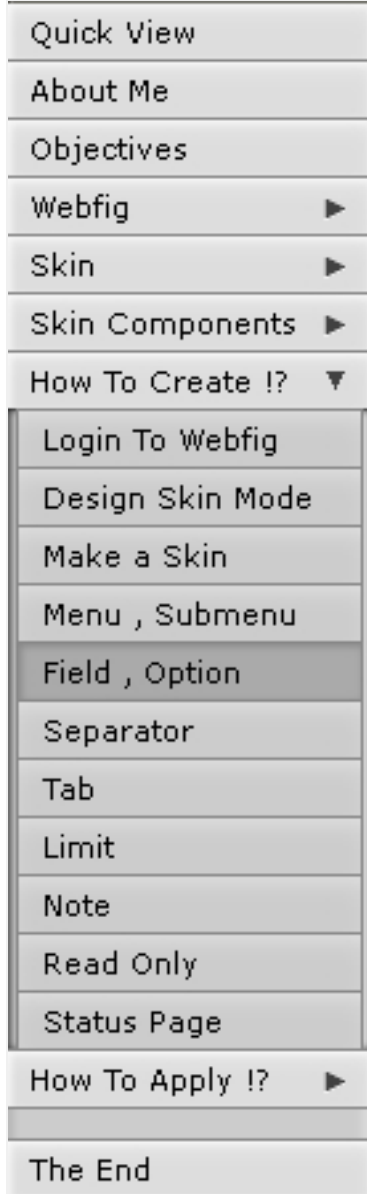
# You can Rename Menus and Submenus to Give Access In this Skin .



← Menu / Submenu : Default Name

→ Menu / Submenu : Renamed

You can Enable / Disable , Add New Feature to Fields and Options by Checkbox and Down Arrow Key inside them .





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Reza Moghadam  
MUM , India

# Add Separator for Options and Fields



Make Read Only  
Add Note  
Add Limit  
Add To Status Page  
Add Tab  
Add Separator



<b>Name</b>	ether3
<b>Type</b>	Ethernet
<b>L2 MTU</b>	1522
<b>Max L2 MTU</b>	1522
<b>MAC Address</b>	00:0C:42:50:36:E3

# Add Tab for Options and Fields .



Make Read Only  
Add Note  
Add Limit  
Add To Status Page  
Add Tab  
Add Separator



Tab - Name

**Name**

ether3

Tab - Type

**Type**

Ethernet

Tab - L2 MTU

**L2 MTU**

1522

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# You can Limit Values in Fields , Options , Dropboxes .



Make Read Only  
Add Note  
Add Limit  
Add To Status Page  
Add Tab  
Add Separator



**Frequency**

2412



MHz

*Limit*

2412

2437

2462



**Frequency**

2412



MHz

2412

2437

2462

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MUM , India

MikroTik

# Add note and Description for Fields and Options .



Make Read Only  
Add Note  
Add Limit  
Add To Status Page  
Add Tab  
Add Separator



**Frequency** 2412 MHz

*Note* You can only Choose Channel 1 , Channel 6 , Channel 11 .

**Frequency** 2412 MHz

You can only Choose Channel 1 , Channel 6 , Channel 11 .

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# Set Read only for Fields and Options .



Make Read Only  
Add Note  
Add Limit  
Add To Status Page  
Add Tab  
Add Separator



<b>Mode</b>	ap bridge
<b>Band</b>	2GHz-B/G/N
<b>Channel Width</b>	20MHz
<b>Frequency</b>	2412  MHz
<b>SSID</b>	 Webfig Web Skins

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# Add Customize Fields and Options in Status Menu



Make Read Only  
Add Note  
Add Limit  
Add To Status Page  
Add Tab  
Add Separator



Status
Interfaces
Bridge
Switch
PPP
Mesh
IP
MPLS
Routing
System
Queues
Files
Log
Radius
Tools
New Terminal

Servers Interface Information	
Server Vlan Name	02 - Server
Servers Vlan Information	
VLAN ID	2
Servers Queue Information	
Upload / Download	263.0 kbps/239.4 kbps
Servers IP Address Information	
Server's IP Address	95.82.116.1/28

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MUM , India

# How to Apply Skins



*Mikro***Tik**

Make sure you save your skin finally after all change .

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Skin:

New Skin



Name:

New Skin

Save

Revert

Reset



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MUM , India

# Create a new Group

## Set Required Policies

## Set Specific Skin for this Group .

The screenshot shows the Mikrotik WinBox interface. The 'User List' window is open, displaying a table of users and their policies. Below it, the 'Group <Customers>' configuration window is open, showing the 'Name' field set to 'Customers' and the 'Policies' section with checkboxes for 'read' and 'web' selected. The 'Skin' field is set to 'New Skin'. A blue arrow points from the 'Create a Group' button in the left sidebar to the 'Group <Customers>' window.

	Name	Policies
	Customers	read web
S	full	local telnet ssh ftp reboot read write policy test winbox
S	read	local telnet ssh reboot read test winbox password web
S	write	local telnet ssh reboot read write test winbox password

Group <Customers>

Name: Customers

OK

Cancel

Apply

Comment

Copy

Remove

– Policies

☐ local ☐ telnet

☐ ssh ☐ ftp

☐ reboot ☒ read

☐ write ☐ policy

☐ test ☐ winbox

☐ password ☒ web

☐ sniff ☐ sensitive

☐ api

Skin: New Skin

System

4 items

MikroTik

# Create a new user Member of Customer Group .

**New User**

Name:

Group:  ▼

Allowed Address:

Password:

Confirm Password:

enabled

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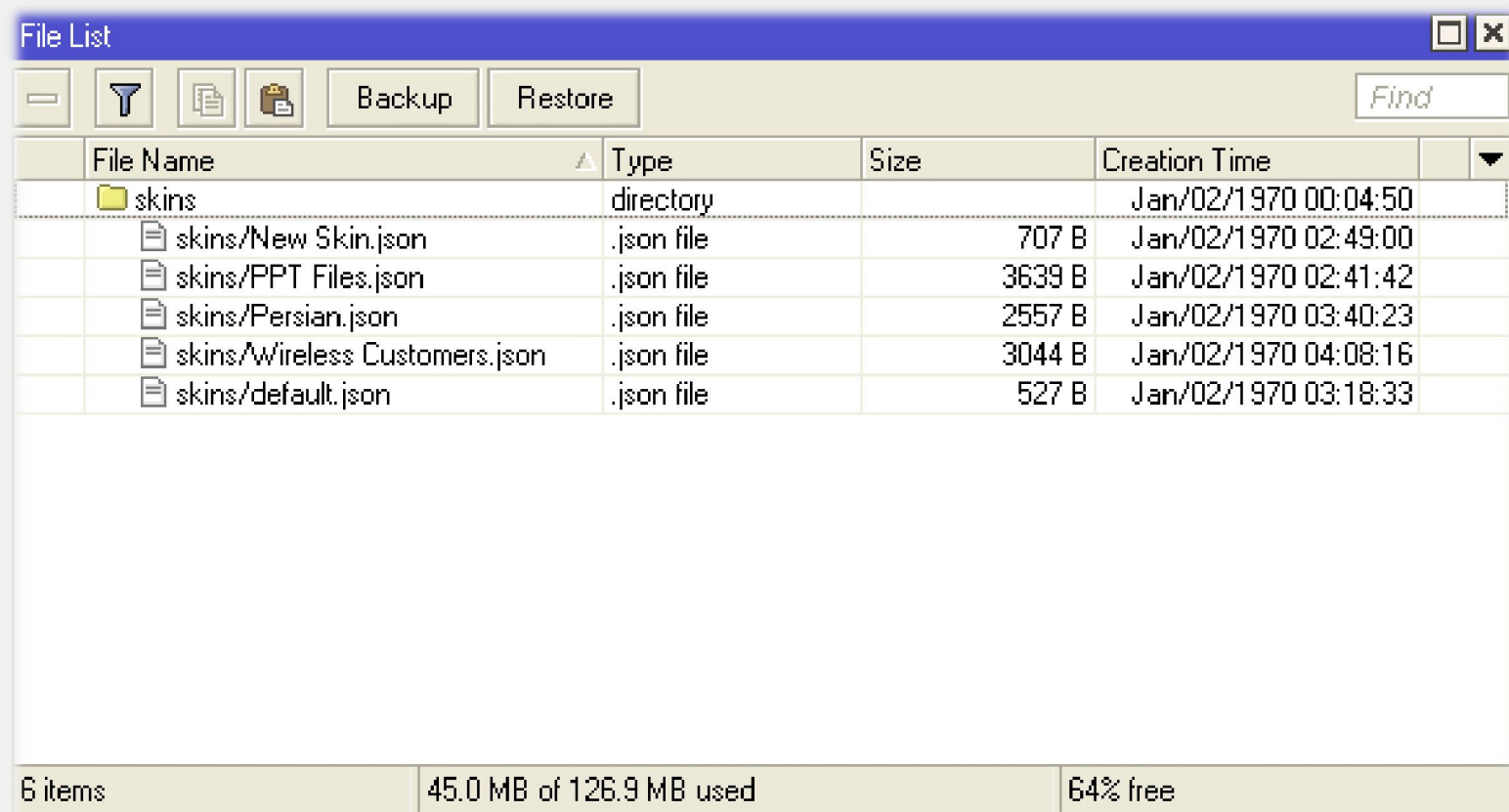
Skin Files

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Reza Moghadam  
MUM , India

# Skins are Stored in Files / Skins Folder

## You can Export and Import skins and use them .



The screenshot shows a 'File List' window with a toolbar containing icons for folder operations and buttons for 'Backup' and 'Restore'. A 'Find' search box is located on the right. The main area displays a table of files and folders. The table has columns for 'File Name', 'Type', 'Size', and 'Creation Time'. The 'skins' directory is expanded, showing five .json files: 'New Skin.json', 'PPT Files.json', 'Persian.json', 'Wireless Customers.json', and 'default.json'. The status bar at the bottom indicates '6 items', '45.0 MB of 126.9 MB used', and '64% free'.

File Name	Type	Size	Creation Time
skins	directory		Jan/02/1970 00:04:50
skins/New Skin.json	.json file	707 B	Jan/02/1970 02:49:00
skins/PPT Files.json	.json file	3639 B	Jan/02/1970 02:41:42
skins/Persian.json	.json file	2557 B	Jan/02/1970 03:40:23
skins/Wireless Customers.json	.json file	3044 B	Jan/02/1970 04:08:16
skins/default.json	.json file	527 B	Jan/02/1970 03:18:33

6 items      45.0 MB of 126.9 MB used      64% free

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# Thank You

Reza Moghadam  
MUM , India

Email : R.Moghadam@Hotmail.Com  
Mobile : +98 916 32 000 56

*Mikro***Tik**