Manual:Winbox

Summary

Winbox is a small utility that allows administration of Mikrotik RouterOS using a fast and simple GUI. It is a native Win32 binary, but can be run on **Linux** and **Mac OSX** using Wine.

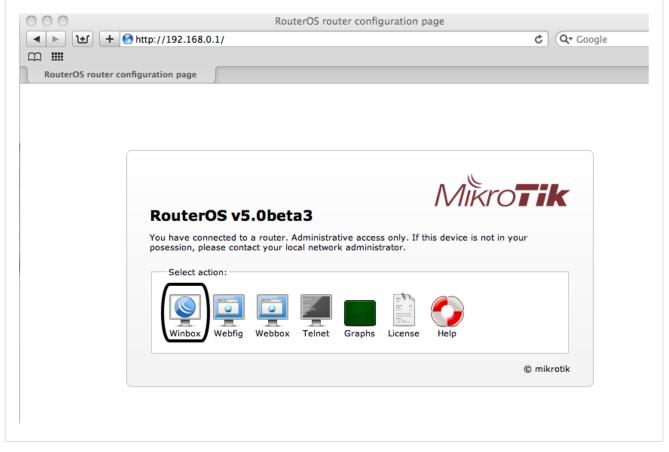
All Winbox interface functions are as close as possible to Console functions, that is why there are no Winbox sections in the manual.

Some of advanced and system critical configurations are not possible from winbox, like MAC address change on an interface.

Starting the Winbox

Winbox loader can be downloaded directly from the router.

Open your browser and enter router's IP address, RouterOS welcome page will be displayed. Click on the link to download **winbox.exe**



When winbox.exe is downloaded, double click on it and winbox loader window will pop up:

🔇 Winl	Box L	.oader v2.2.	15		L	. <u> </u>
Connec	at To: 🛛	10.1.101.1				Connect
۲ ۱	.ogin: 🛛	admin				
i Passv	word:					
	Γ	 Keep Password	l			Save
		Secure <u>M</u> ode				<u>R</u> emove
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1	Note:					I
Address	:	User	Note		 	
10.0.11.	155	maris	bgp test			
10.1.10 10.1.10 10.255.2	1.158	admin admin admin	750_switch			

To connect to the router enter IP or MAC address of the router, specify username and password (if any) and click on **Connect** button. You can also enter the port number after the IP address, separating them with a colon, like this 192.168.88.1:9999. The port can be changed in RouterOS **services** menu.



Note: It is recommended to use IP address whenever possible. MAC session uses network broadcasts and is not 100% reliable.

You can also use neighbor discovery, to list available routers by clicking on [...] button:

Connect To:	10.1.101.1) Connect
Looin	MAC Address	IP Address	Identity	Version	
Login:	00:00:42:02:01:20	0.0.0.0	3rd_FL_SW	2.9rc7	
Password:	00:0C:42:02:01:E0	0.0.0.0	2nd_FL_SW	2.9rc7	
	00:0C:42:02:01:E3	0.0.0.0	2nd_FL_SW	2.9rc7	Save
	00:0C:42:02:01:FB	0.0.0.0	3rd_FL_SW	2.9rc7	
	00:00:42:02:15:52	0.0.0.0	Switch4port4floor	2.9rc7	Remove
	00:00:42:02:27:75	0.0.0.0	Switch4port4floor	2.9rc7	
	00:0C:42:03:1E:D4	10.5.8.123	MikroTik	2.9.2	<u>T</u> ools
Note:	00:0C:42:03:27:DB	10.5.8.236	USER_MAN	2.9.1	
Note.	00:00:42:03:46:74	10.5.8.100	MA_GW	2.9	
	00:00:42:03:51:95	10.5.8.237	USER_MTEST	2.9.2	
ddress	00:00:42:04:00:73	10.5.8.144	MikroTik	2.9.2	
0.0.11.155 0.1.101.1	00:30:4F:23:7A:2C	10.5.8.1	web-proxy	2.9.5	

From list of discovered routers you can click on IP or MAC address column to connect to that router. If you click on IP address then IP will be used to connect, but if you click on MAC Address then MAC address will be used to connect to the router.



Note: Neighbor discovery will show also devices which are not compatible with Winbox, like Cisco routers or any other device that uses CDP (Cisco Discovery Protocol)

Description of buttons and fields of loader screen

- [...] discovers and shows MNDP (MikroTik Neighbor Discovery Protocol) or CDP (Cisco Discovery Protocol) devices.
- Connect Connect to the router
- Save Save address, login, password and note. Saved entries are listed at the bottom of loader window.
- Remove Remove selected entry from saved list

- **Tools...** Allows to run various tools: removes all items from the list, clears cache on the local disk, imports addresses from wbx file or exports them to wbx file.
- Connect To: destination IP or MAC address of the router
- Login username used for authentication
- Password password used for authentication
- Keep Password if unchecked, password is not saved to the list
- Secure Mode if checked, winbox will use TLS encryption to secure session
- Load Previous Session if checked, winbox will try to restore all previously opened windows.
- Note description of the router that will be saved to the list.



Warning: Passwords are saved in plain text. Anyone with access to your file system will be able to retrieve passwords.

It is possible to use command line to pass connect to user and password parameters automatically:

winbox.exe [<connect-to> [<login> [<password>]]]

For example (with no password):

winbox.exe 10.5.101.1 admin ""

Will connect to router 10.5.101.1 with username "admin" without password.

IPv6 connectivity

Starting from v5RC6 Winbox supports IPv6 connectivity. To connect to the routers IPv6 address, it must be placed in square braces the same as in web browsers when connecting to IPv6 server. Example:

© N	likroTik WinBox Loader v2.2.17	
<u>C</u> onnect To:	[dead:beef::1]	Connect
Login:	admin	
Password:		[
	Keep Password	Save
	Secure Mode	<u>R</u> emove
	Load Previous Session	<u>T</u> ools
<u>N</u> ote:		
Address	User Note	

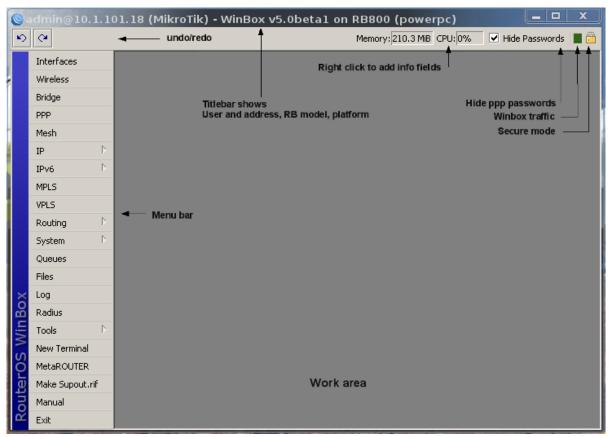
Winbox neighbor discovery is now capable of discovering IPv6 enabled routers. As you can see from the image below, there are two entries for each IPv6 enabled router, one entry is with IPv4 address and another one with IPv6 link-local address. You can easily choose to which one you want to connect:

OmikroTik	WinBox Loader v2.				
Login:	MAC Address 00:0C:42:20:7E:6C	IP Address 10.5.101.5	nnect Identity MikroTik	Version 5.0rc7	Board RB1000
Password:	00:0C:42:21:F1:EC 00:0C:42:21:F1:EC	fe80::20c:42ff:fe21 10.5.101.11	MilztoTilz	5.0rc7	RB433 RB433
	00:0C:42:28:79:45 00:0C:42:28:79:45 00:0C:42:40:94:24	fe80::20c:42ff:fe28 10.5.101.1 fe80::80:70ff:fe3c:	dzeltenais_burkaans dzeltenais_burkaans test-nost	5.0rc7 5.0rc7 5.0rc7	RB433AH RB433AH RB1000
<u>Note:</u> Address 10.0.11.155 10.5.101.1 10.7.0.99 10.7.1.200 76.170.152.24	00:0C:42:40:94:24 00:0C:42:49:FC:E5 00:0C:42:49:FC:E5 00:0C:42:5E:95:3C 00:0C:42:72:A1:B0 00:0C:42:72:A1:B0 02:0C:42:72:A1:B0 02:16:16:90:EF:0E 02:16:16:90:EF:0E 02:49:E8:55:8E:E8	10.5.101.6 fe80::20c:42ff:fe49 10.5.101.3 10.5.101.37 fe80::20c:42ff:fe72 10.5.101.34 fe80::16:16ff:fe90: 10.5.101.9 10.5.101.8	test-host	5.0rc7 5.0rc7 5.0rc7 4.4 5.0rc6 5.0rc6 5.0rc7 5.0rc7 5.0rc7	RB1000 RB1100 RB1100 RB750G RB800 RB800 RB Meta RB Meta

Interface Overview

Winbox interface has been designed to be intuitive for most of the users. Interface consists of:

- Main toolbar at the top where users ca add various info fields, like CPU and memory usage.
- Menu bar on the left list of all available menus and sub-menus. This list changes depending on what packages are installed. For example if IPv6 package is disabled, then **IPv6** menu and all it's sub-menus will not be displayed.
- Work area area where all menu windows are opened.



Title bar shows information to identify with which router Winbox session is opened. Information is displayed in following format:

[username]@[Router's IP or MAC] ([RouterID]) - Winbox [ROS version] on [RB model] ([platform])

From screenshot above we can see that user **admin** is logged into router with IP address **10.1.101.18**. Router's ID is **MikroTik**, currently installed RouterOS version is **v5.0beta1**, RouterBoard is **RB800** and platform is **PowerPC**.

On the Main toolbar's left side is located **undo** and **redo** buttons to quickly undo any changes made to configuration. On the right side is located:

- winbox traffic indicator displayed as a green bar,
- · indicator that shows whether winbox session uses TLS encryption
- checkbox **Hide password**. This checkbox replaces all sensitive information (for example, ppp secret passwords) with '*' asterisk symbols.

Work Area and child windows

Winbox has MDI interface meaning that all menu configuration (child) widows are attached to main (parent) Winbox window and are showed in work area.

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	Interfaces		-			_	_					M
	Wireless		Route List									×
	Bridge		Routes Next	hops Rule	es VRF							
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	IPv6	Þ	Do	Interface	Ethernet	EoIP Tunnel	IP Tunnel	VLAN VR	RP Bondi	ng		
	MPLS		DAo	X	e 7							
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	reading		DAC		ther2	Ethernet		1500	1600	0 bps		C
	System	\triangleright	DAC	R 🍫e	ther3	Ethernet		1500	1600	0 bps	0 bps	C
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Child windows can not be dragged out of working area. Notice in screenshot above that **Interface** window is dragged out of visible working area and horizontal scroll bar appeared at the bottom. If any window is outside visible work area boundaries the vertical or/and horizontal scrollbars will appear.

Child window menu bar

Each child window has its own toolbar. Most of the windows have the same set of toolbar buttons:

- **4 Add** add new item to the list
- **Remove** remove selected item from the list
- Enable enable selected item (the same as enable command from console)
- **X** Disable disable selected item (the same as disable command from console)
- Comment add or edit comment
- Sort allows to sort out items depending on various parameters. Read more >>

Almost all windows have quick search input field at the right side of the toolbar. Any text entered in this field is searched through all the items and highlighted as illustrated in screenshot below

Interfaces					
Interraces					
Wireless					
Bridge		Route List			
PPP					
Mesh		Routes Ne	exthops Rules VRF		
IP		+ -	🗸 🗶 🖂 🍸		10.1 all
			Dst. Address	Gateway	Distance all
IPv6		xs	0.0.0/0	10.1.101.1	l test
MPLS		DAS	0.0.0/0	10.1.101.1 reachable ether1	0
VPLS		Do	0.0.0/0	10.1.101.1 reachable ether1	110
VPLD		DAo	1.2.0.0/18	10.1.101.1 reachable ether1	110
Routing	\triangleright	DAo	3.4.3.0/24	10.1.101.11 reachable ether1	110
System	\triangleright	DAC	5.5.5.0/24	ether3 reachable	0
· · · · · · · · · · · · · · · · · · ·		DAC	6.5.6.0/24	vpls1 reachable	0
Queues		DAC	9.9.9.0/24	vlan1 unreachable	0
Files		DAC	10.1.101.0/24	ether1 reachable	0
1		S	10.3.3.0/24	192.168.1.10 unreachable wlan1	1
Log		DAo	10.5.8.0/24	10.1.101.1 reachable ether1	110
Radius		DAo	10.5.50.0/24	10.1.101.1 reachable ether1	110
Tools		DAo	10.255.255.1	10.1.101.1 reachable ether1	110
		DAo	10.255.255.12	10.1.101.11 reachable ether1	110
New Terminal		DAo	10.255.255.13	10.1.101.11 reachable ether1	110
MetaROUTER		•			•
Make Supout.	rif	20 items			
Manual					

Notice that at the right side next to quick find input filed there is a dropdown box. For currently opened (IP Route) window this dropdown box allows to quickly sort out items by routing tables. For example if **main** is selected, then only routes from main routing table will be listed.

Similar dropdown box is also in all firewall windows to quickly sort out rules by chains.

Sorting out displayed items

Almost every window has a **Sort** button. When clicking on this button several options appear as illustrated in screenshot below

Ю	9	Memory: 210.7 MiB CPU:	0% 🗹 Hide Passwords 📕 🛅
	Interfaces		
	Wireless		
	Bridge		X
	PPP	Route List	×
	Mesh	Routes Nexthops Rules VRF	
	IP D		Find all T
	IPv6 D	Dst. Address 🔻 in 🛐 10.0.0.0/8 4	+ - Filter
	MPLS	Dst. Address 🔺 Gateway	Distance Routin 🔻
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	Routing D	S 10.3.3.0/24 192.168.1.10 unreachable wlan1 DAo 10.5.8.0/24 10.1.101.1 reachable ether1	1
	System D	DA0 10.5.50.0/24 10.1.101.1 reachable ether1	110
		DAo 10.255.255.1 10.1.101.1 reachable ether1	110
	Queues	DAo 10.255.255.12 10.1.101.11 reachable ether1	110
	Files	DAo 10.255.255.13 10.1.101.11 reachable ether1	110
		DAC 10.255.255.20 lo0 reachable	0
	Log		
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Xo	Tools D		
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Win	MetaROUTER		F
>	Make Supout,rif	8 items out of 20 (1 selected)	
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outer	Exit		
E.			
8			

Example shows how to quickly filter out routes that are in 10.0.0.0/8 range

- 1. Press Sort button
- 2. Chose Dst.Address from the first dropdown box.
- 3. Chose **in** form the second dropdown box. "in" means that filter will check if dst address value is in range of specified network.
- 4. Enter network against which values will be compared (in our example enter "10.0.0.0/8")
- 5. These buttons are to add or remove another filter to the stack.
- 6. Press Filter button to apply our filter.

As you can see from screenshot winbox sorted out only routes that are within 10.0.0.0/8 range.

Comparison operators (Number **3** in screenshot) may be different for each window. For example "Ip Route" window has only two **is** and **in**. Other windows may have operators such as "is not", "contains", "contains not".

Winbox allows to build stack of filters. For example if there is a need to filter by destination address and gateway, then

- set first filter as described in example above,
- press [+] button to add another filter bar in stack.
- set up seconf filter to filter by gateway
- press **Filter** button to apply filters.

You can also remove unnecessary filter from the stack by pressing [-] button.

Customizing list of displayed columns

By default winbox shows most commonly used parameters. However sometimes it is needed to see another parameters, for example "BGP AS Path" or other BGP attributes to monitor if routes are selected properly.

Winbox allows to customize displayed columns for each individual window. For example to add BGP AS path column:

- Click on little arrow button (1) on the right side of the column titles or right mouse click on the route list.
- From popped up menu move to Show Columns (2) and from the sub-menu pick desired column, in our case click on BGP AS Path (3)

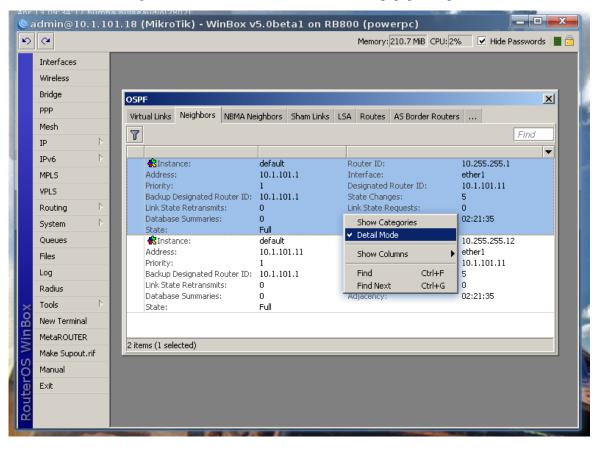
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Changes made to window layout are saved and next time when winbox is opened the same column order and size is applied.

Detail mode

It is also possible to enable **Detail mode**. In this mode all parameters are displayed in columns, first column is parameter name, second column is parameter's value.

To enable detail mode right mouse click on the item list and from the popupmenu pick Detail mode



Category view

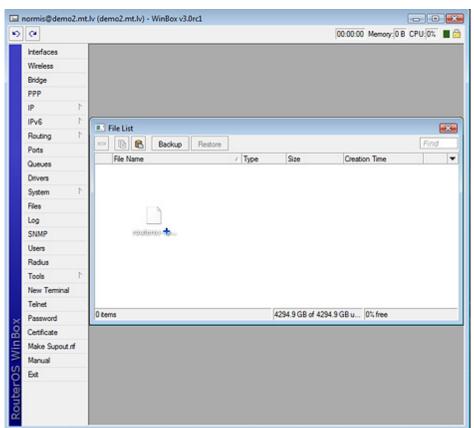
It is possible to list items by categories. In tis mode all items will be grouped alphabetically or by other category. For example items may be categorized alphabetically if sorted by name, items can also be categorized by type like in screenshot below.

To enable Category view, right mouse click on the item list and from the popupmenu pick Show Categories

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Drag & Drop

It is possible to upload and download files to/from router using winbox drag & drop functionality.





Note: Drag & Drop does not work if winbox is running on Linux using wine. This is not a winbox problem, wine does not support drag & drop.

Traffic monitoring

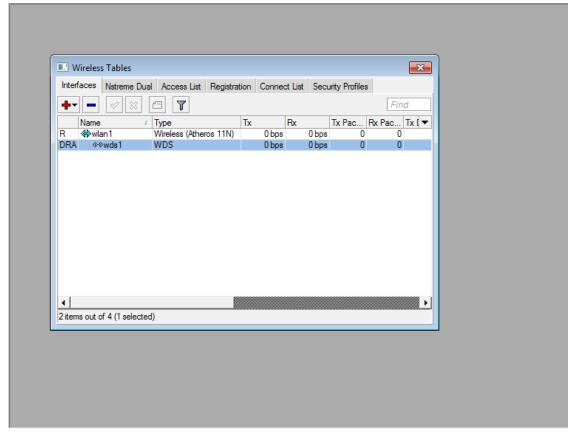
Winbox can be used as a tool to monitor traffic of every interface, queue or firewall rule in real-time. Screenshot below shows ethernet traffic monitoring graphs.

Memory: 210.3 MiB CPU; 5% ✓ Hide Passwords Interfaces Wireless Bridge PPP Tx/Rx Rate: 217.9 kbps / 24.3 kbps Cancel
Wireless Interface <ether1> Bridge General Ethernet Status Traffic</ether1>
Mesh Tx/Rx Packet Rate: 32 p/s / 30 p/s Apply IP I Tx/Rx Packet Rate: 32 p/s / 30 p/s Apply IP Tx/Rx Packet Rate: 32 p/s / 30 p/s Apply IP Tx/Rx Packet: 7296 233 / 8 478 334 Comment WPLS Tx/Rx Packet: 7 296 233 / 8 478 334 Comment VPLS Tx/Rx Packet: 7 296 233 / 10 Tx/Rx Packet: 7 9 kbps System 0 / 0 Tx/Rx Errors: 0 / 0 7.9 kbps 32 30 Queues Tx: 217.9 kbps Image: State

Item copy

This shows how easy it is to copy an item in Winbox. In this example, we will use the COPY button to make a Dynamic WDS interface into a Static interface.

This image shows us the initial state, as you see DRA indicates "D" which means Dynamic:



Double-Click on the interface and click on COPY:

٠

Wireless Tables Interfaces Nstreme Dual Access List Registration		WDS		OK OK Copy Remove Torch
items out of 4 (1 selected)	dynamic	running	slave ac	tive

A new interface window will appear, a new name will be created automatically (in this case WDS2)

Interfaces Natreme Dual Access List Registration	Genera	eral WDS Traffic OK Name: wds1
R ∰wian1 Wireless (Atheros 11N) DRA ↔≫wds1 WDS	MAC /	New Interface General WDS Traffic OK
	dynamic	

You can see that the new interface status has changed:

+			-		T D	Find		
R	Name Wan1	∧ Type Wireless (Atheros 11N)	Tx 0 bps	Rx 0 bps		Rx Pac 1 0	IX L 🗸	
RA	«-»wds2	WDS	0 bps			0		
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Transferring Settings

OnWindowsVista/7Winboxsettingsarestoredin:%USERPROFILE%\AppData\Roaming\Mikrotik\Winbox\winbox.cfg

Simply copy this file to the same location on the new host.

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