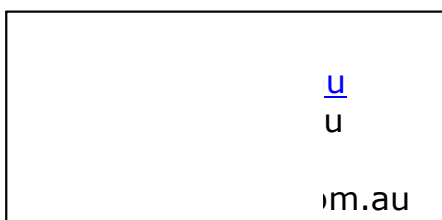




DuxMaster Gateway Configuration Guide

Mikrotik User Manager Configuration Load



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Introduction

This configuration guide is designed to assist the network administrator with deployment and initial setup of the DuxMaster Gateway Appliance as a stand-alone public access internet gateway.

This configuration method takes advantage of the Mikrotik User Manager solution developed and supported by Mikrotik (www.mikrotik.com) producer of the world renowned RouterOS operating system and RouterBoard series of hardware products that the Duxmaster system is based on.

If you purchased a Duxmaster Gateway direct from DuxTel, many steps outlined in the main configuration guide have already been completed prior to shipping. Refer to the Quickstart Guide on the following page if this is the case. Otherwise, if you are loading the Mikrotik user Manager from a factory default state, refer to the full configuration guide starting on page 5.

Quickstart Guide

Thank you for purchasing your DuxMaster Gateway system from DuxTel! If you have not made any changes to the configuration of the device since receiving it, many of the configuration steps have already been completed for you. Complete the following steps to get up and running as soon as possible!

Step 1: Accessing the device using Winbox

- a. Download the mikrotik Winbox configuration tool at:
<http://www.mikrotik.com/download.html>, or
<http://www.duxtel.com.au/mikrotik/winbox.exe>
- b. Connect power to the router using the power supply provided
- c. Connect your computer to the router via standard Ethernet cable to port ether2
- d. Run WinBox program
- e. Click on "... " button adjacent to 'connect'
- f. Click on a router entry that appears in the select list
- g. Enter username "admin" (leave password blank)
- h. Click 'Connect'

Step 2: Change the System Password

- a. Connect to the router using Winbox as per Step 1
- b. Click on "System" in the main menu, and select "Password"
- c. Enter the original password (i.e. blank if it is the first login) and enter your new password twice

Now proceed to *Step 8: Connect router to internet* on page 7 of this document.

Configuration Guide – Mikrotik User Manager

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Step 1.1: Reset Router Config (recommended)

If the router is already at factory default settings, you can safely skip this step

- a. Connect to the router using the process in Step 1 above.
- b. Click on “New Terminal”
- c. When the terminal window opens, enter “/system reset” and respond ‘Y’ to the prompt
- d. Allow the router to reboot

Step 2: Upgrade RouterOS

Note: it is best to download a copy of the current RouterOS release and store on disk for all future hotspot deployments so that you have a consistent RouterOS platform across all sites.

- a. Download routerOS file from www.mikrotik.com/download.html
- b. Choose "RB400" for "system Type" and "All versions" for "software Type"
- c. Click on "Combined Package" link
- d. Save the file to a convenient location on your PC desktop or disk location
- e. Connect to the router as per Step 1 above
- f. Click on "Files" in the main menu
- g. Drag the file downloaded at 3c into the 'files' window in the Winbox tool
- h. Click "System" then "reboot"
- i. Allow the router to restart

Step 3: Set the router password

- d. Connect to the router using Winbox as per Step 1
- e. Click on "System" in the main menu, and select "Password"
- f. Enter the original password (i.e. blank if it is the first login) and enter your new password twice

WARNING: make sure you write down or remember the password – you will need to factory reset the device to gain access without the correct password.

Step 4: Install User Manager

Note: it is best to download a copy of the current RouterOS release and store on disk for all future hotspot deployments so that you have a consistent RouterOS platform across all sites.

- a. Download MUM Packages file from www.mikrotik.com/download.html



- b. Choose "RB400" for "system Type" and "All versions" for "software Type"
- c. Click on "All Packages" link
- d. Save the file to a convenient location on your PC desktop or disk location
- e. Extract the contents of the downloaded zip file, in particular "user-manager-x.nn-mipsbe.npk" where 'x.nn' is the current version level. NOTE- the user-manager version level MUST match the version of RouterOS downloaded in Step 2.
- f. Connect to the router as per Step 1 above
- g. Click on "Files" in the main menu
- h. Drag the file downloaded at 4c (i.e user-manager-x.nn-mipsbe.npk) into the 'files' window in the Winbox tool
- i. Click "System" then "reboot"
- j. Allow the router to restart

Step 5: Ensure that MUM is installed/enabled

- a. Connect to the router using Winbox as per Step 1
- b. Click on "System" in the menu, then click on "Packages"
- c. Click on "Mikrotik User Manager" in the packages list, then click the *enable* button

Step 6: Load Custom Configuration

- a. Open the supplied configuration file with a text editor (e.g. notepad.exe)
- b. Copy all contents (<ctrl>-a', or 'edit->selectAll') and copy (<ctrl>-c', or 'edit->copy')
- c. Connect to the router using Winbox as per Step 1
- d. Click 'New Terminal' in the main Winbox menu

- e. Point the mouse cursor to somewhere inside the 'New Terminal' window, and click the RIGHT mouse button, then select 'paste'

Step 7: Load Custom Login Page

- a. Save a copy of the supplied file "login.html" to your PC desktop or other convenient location
- b. Connect to the router using Winbox as per Step 1
- c. Click on "Files" in the main menu
- d. Drag the supplied "login.html" file from your PC desktop or disk location into the "Files" window opened in Winbox.

NOTE: make sure that the login.html file replaces the existing login.html file in the list of files. You can confirm this by first removing the existing file from the list view (select 'login.html' and then click on the '-' icon in the files window) and then drag the supplied version into the Files list to the correct location.

Step 8: Connect router to internet

There are two options for this stage:

- i) DHCP via existing network
- ii) Direct Internet Connection

Type ii) is recommended for most situations, but type i) is a simplified setup process. With type ii) setup, a user can **not** defeat the network login security by plugging a computer directly into the broadband modem.

For type i) setup, simply connect port ether1 on the router to any port on the broadband modem. Now connect your customer network (or LAN switch) to port ether3 on the router.

Type ii) setup requires that the modem be set to bridge mode. Please consult your router documentation to determine how to enable bridge mode (or whether bridge mode is even supported!)

Once the modem is set to bridge mode:

- a. Connect to the router using Winbox as per Step 1
- b. Click on 'interfaces' in the main menu.
- c. Look for the entry named "pppoe-out1" and double-click on that entry
- d. Click on the button labelled "Enable"
- e. Select the "dial out" tab
- f. Enter the username and password of the internet service connection as supplied by your ISP.

Step 9: Log on to User Manager

Connect a PC to port ether2, and make sure that the TCP/IP properties are set as "server assigned", then:

- a. Open a web browser and go to <http://10.100.2.1/userman>
- b. Enter username "Admin" and click login (password is blank for first login)

Step 10: Set Userman Password

- a. Log on to the User Manager as per Step 8
- b. Move the cursor over "Customers" then click on "View"
- c. Select "admin" and enter a password. (Use this password from this point on when logging on to the Mikrotik User Manager – i.e. Step 8)

Step 11: Create Users

In this step, you define the username/password details for your users to enter into the logon page to access their monthly quota. You can set any quota amount for Download (data transferred from the internet to the user computer) or Upload (transfer from the user to the internet) or both Download + Upload. You might elect to place limits on Upload or Down+Up if you want to discourage users from sharing content to internet users via P2P software, etc.

- a. Log on to the User manager as per Step 8 above
- b. Move the cursor over "Users" then "Add"
- c. Complete the following details:
 - Username: a unique user name for the login
 - Password: a matching login password
 - Download Limit: in BYTES (e.g. 10GB = 10000000000)
AND/OR (optionally)
 - Upload Limit: in BYTES (e.g. 500MB = 500000000)
AND/OR (optionally)
 - Transfer Limit: in BYTES (e.g. 2GB = 2000000000)

All other fields are optional, or may prevent the user profile from functioning correctly
Click "Add"

Step 12: (optionally) Create User Vouchers

Use this step when creating a user for the first time, to print username/password and access information for distribution.

- a. Log on to the User manager as per Step 8 above

- b. Move the cursor over "Users" then click "View"
- c. Move the cursor over "Generate" then choose an option to print coupons one, two or three-per-page.
- d. Click on "File" in the browser menu, then "Print"

Additional Notes for End Users:

1. To log in to the system, simply open a web browser and go to ANY web site – enter the supplied username/password to access monthly quota, or enter guest/guest for guest access (speed limited to 64K up/down, no P2P allowed)
2. To log off from the internet service, go to <http://login.internet> and click 'logout' button.
3. To view current session details, go to <http://login.internet>
4. To view access history and account details, go to <http://10.100.2.1/users> - you MUST be logged in as a valid user to access this section.

