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HANOI UNIVERSITY
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Computer Networking Lab

IT3080

ONE LOVE. ONE FUTURE.

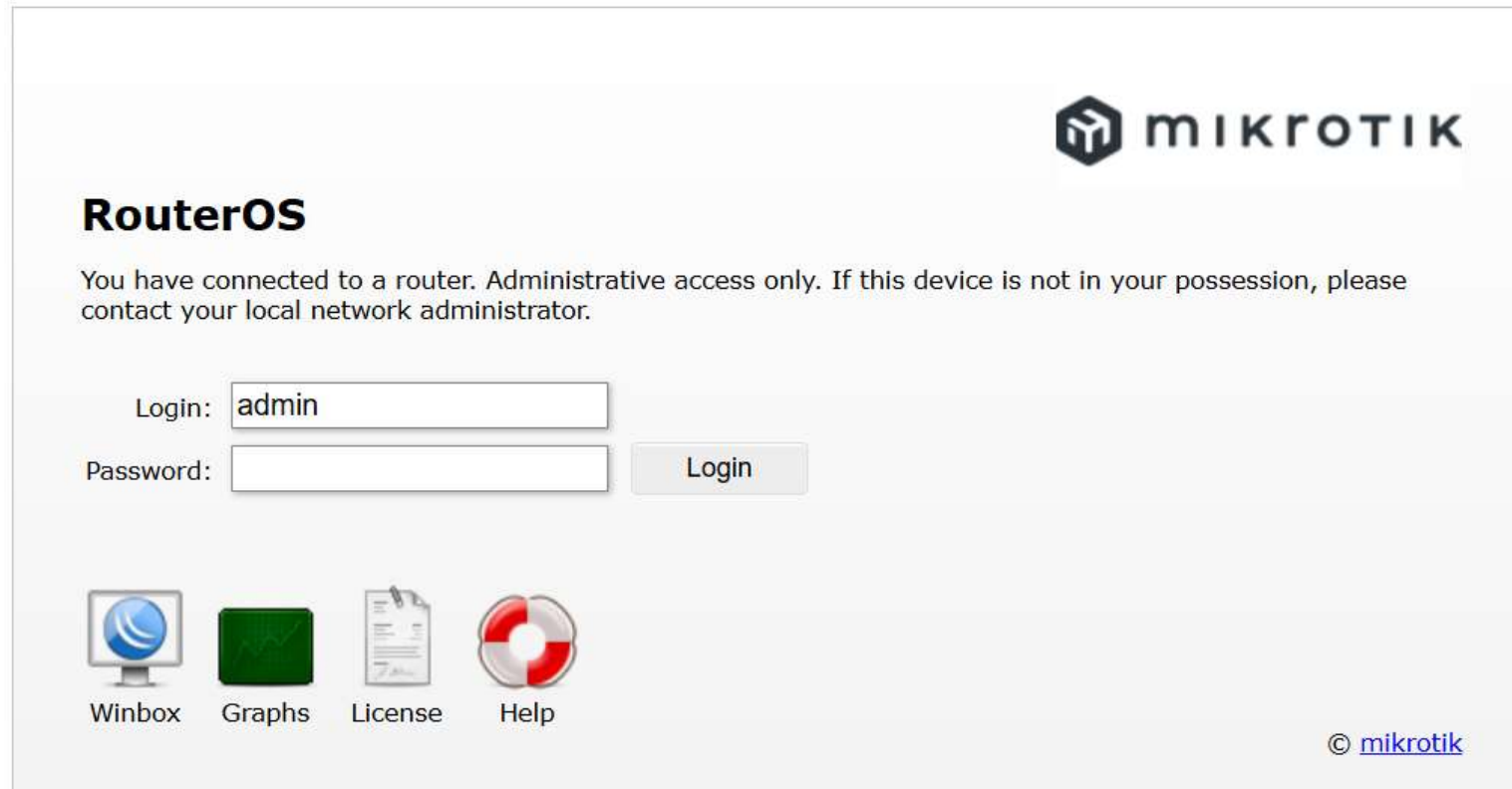


Router RB4011iGS+RM

[MikroTik Routers and Wireless - Products: RB4011iGS+RM](#)

Access router through Web Interface - <http://192.168.88.1>

- *To connect your computer and router, use local LAN port (port 10 for Mikrotik)*



The screenshot shows the Mikrotik RouterOS web interface. At the top right is the Mikrotik logo. Below it, the text "RouterOS" is displayed. A message states: "You have connected to a router. Administrative access only. If this device is not in your possession, please contact your local network administrator." Below this message are two input fields: "Login:" with the text "admin" and "Password:" which is empty. To the right of the password field is a "Login" button. At the bottom, there are four icons with labels: "Winbox" (a computer monitor), "Graphs" (a green square), "License" (a document icon), and "Help" (a lifebuoy icon). In the bottom right corner, there is a copyright notice: "© mikrotik".

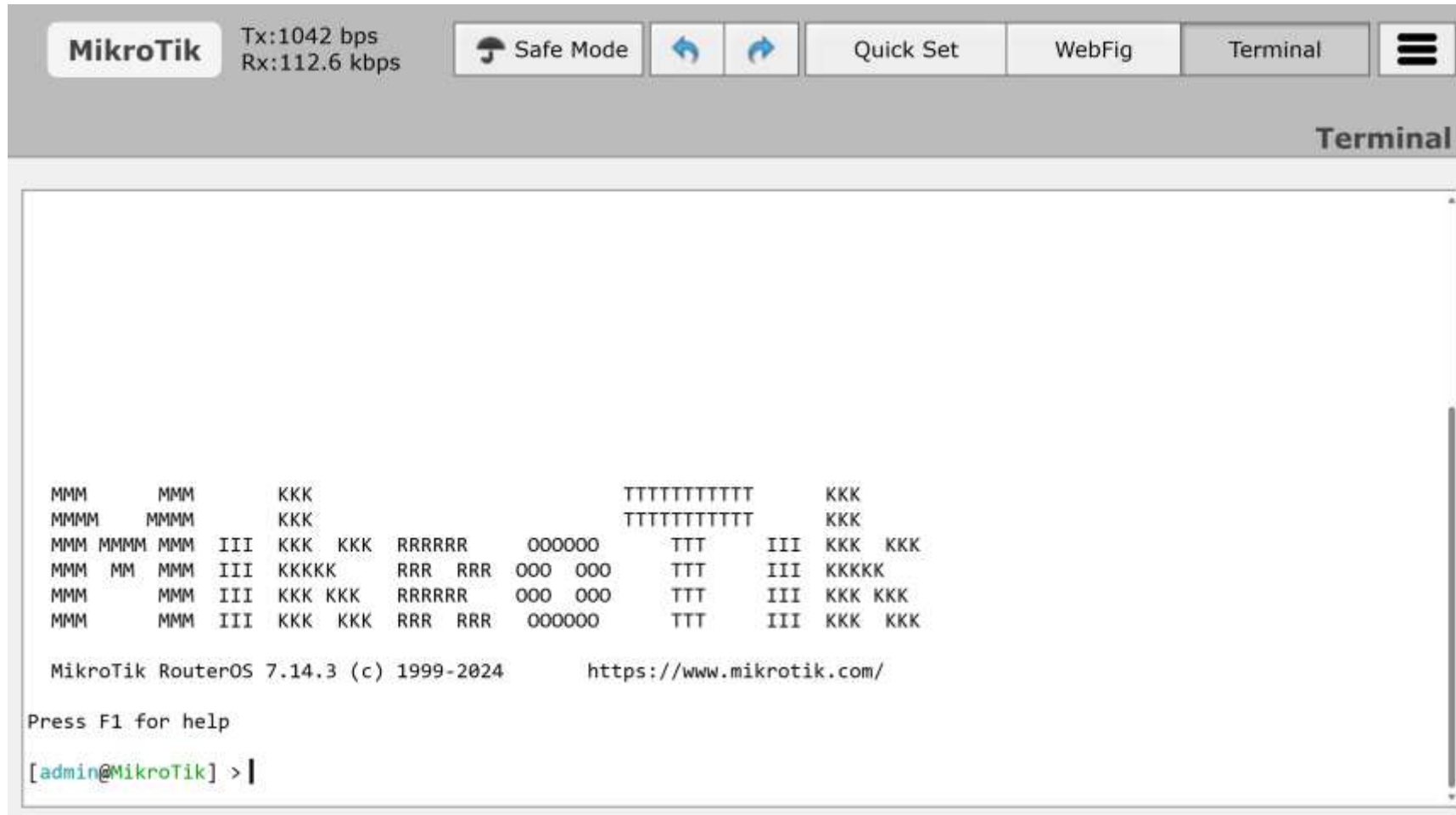
Access router through Web Interface

The screenshot displays the MikroTik WinBox web interface for configuring an Ethernet Quick Set. The interface is organized into several sections:

- Configuration:** Mode is set to Router and Bridge.
- Internet:** Port is set to Eth1. Address Acquisition is set to Static, Automatic, and PPPoE. Fields for IP Address, Netmask, and Gateway are present. Buttons for **Save** and **Release** are visible.
- Local Network:** IP Address is set to 192.168.88.1. Netmask is set to 255.255.255.0 (/24). DHCP Server is checked. DHCP Server Range is set to 192.168.88.10-192.168.88.254. NAT is checked. A **Port Mapping** button is located at the bottom right of this section.
- VPN:** VPN Access is unchecked. VPN Address is set to hq11@192.168.1.1:1111@mydomain.net.
- System:** Router Identity is set to MikroTik.

At the bottom of the interface, there are buttons for **Check for Updates**, **Reboot**, **Reset Configuration**, **Cancel**, and **Apply Configuration**.

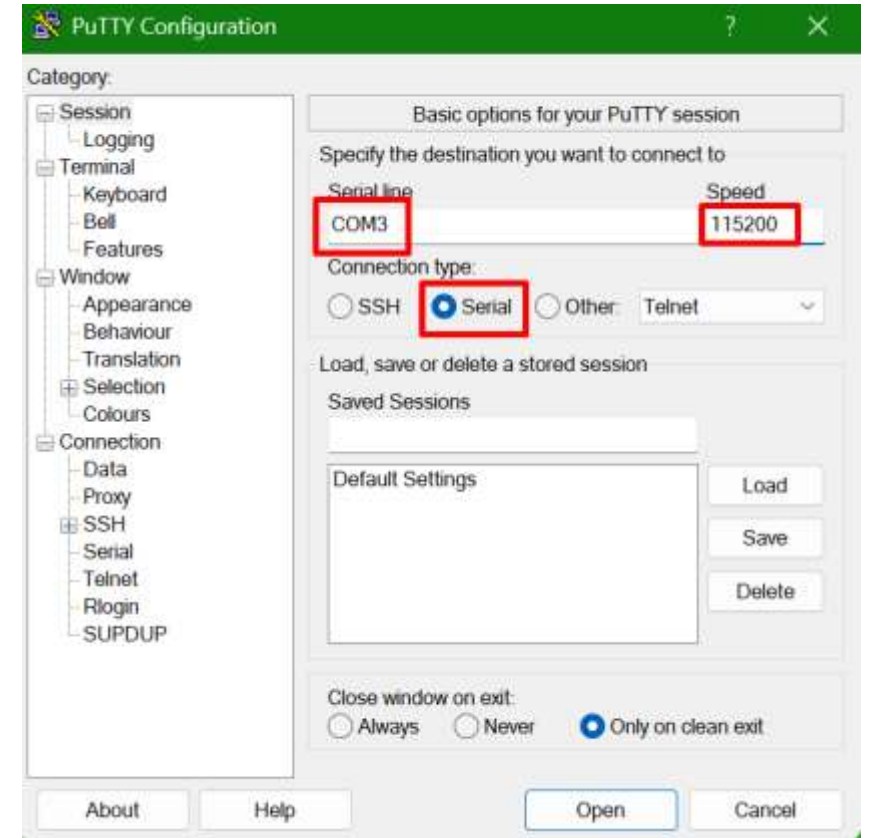
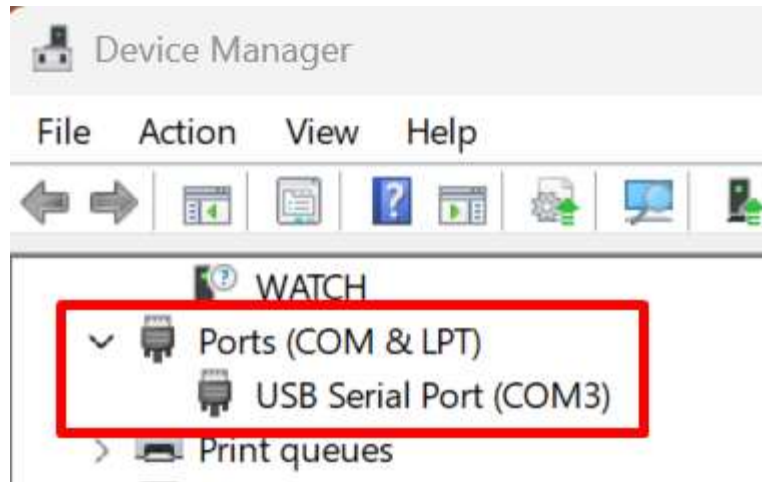
Access router through Web Interface



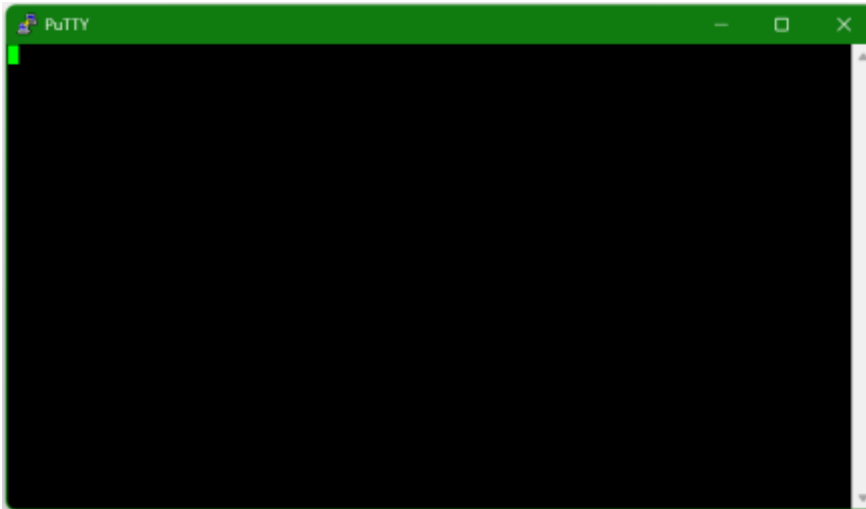
The screenshot shows the MikroTik RouterOS Web Interface. At the top, there is a status bar with the MikroTik logo, transmission and reception rates (Tx:1042 bps, Rx:112.6 kbps), and several utility buttons: Safe Mode, navigation arrows, Quick Set, WebFig, Terminal, and a menu icon. The main area is a terminal window titled "Terminal" displaying the RouterOS boot sequence. The boot sequence includes a logo made of letters (MMM, MMMM, KKK, TTT, III, RRR, OOO) and the following text: "MikroTik RouterOS 7.14.3 (c) 1999-2024 https://www.mikrotik.com/". Below this, it says "Press F1 for help" and shows the command prompt "[admin@MikroTik] > |".

Access router through Console

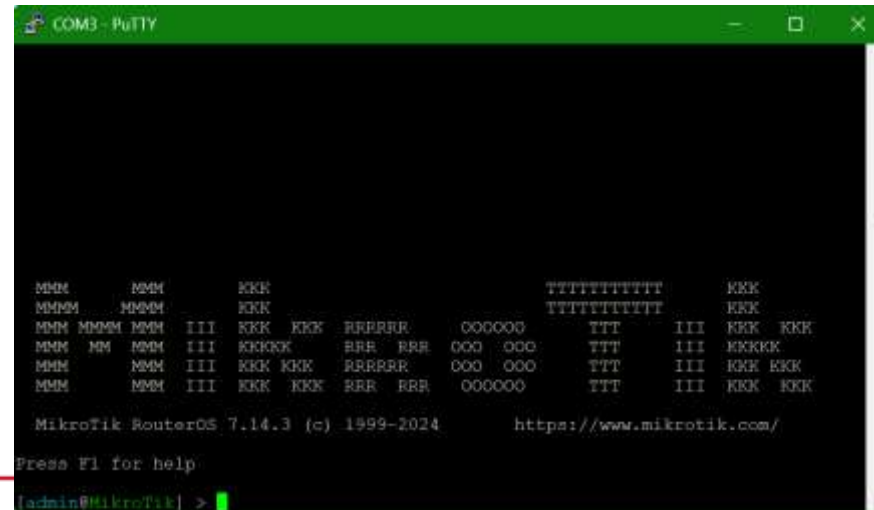
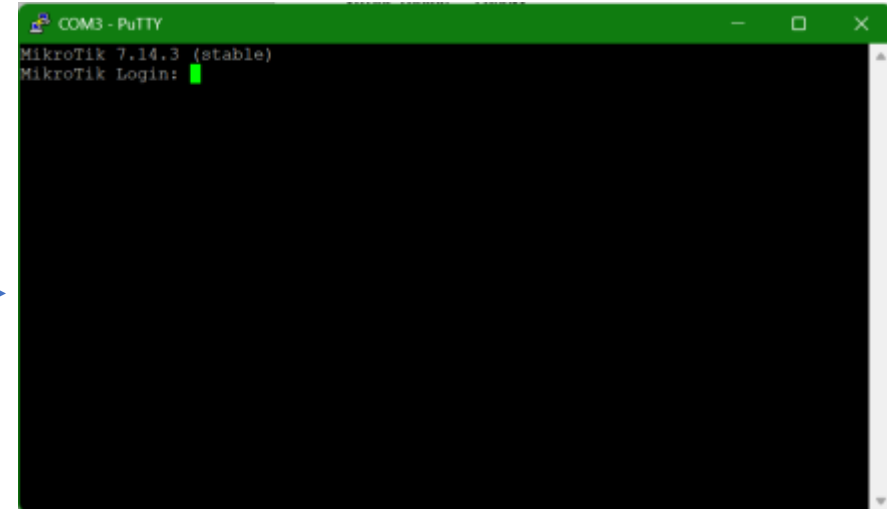
- Connect computer with router by console cab
- Check COM number in Device Manager
- Use PuTTY to establish connection to router



Access router through Console



Press Enter

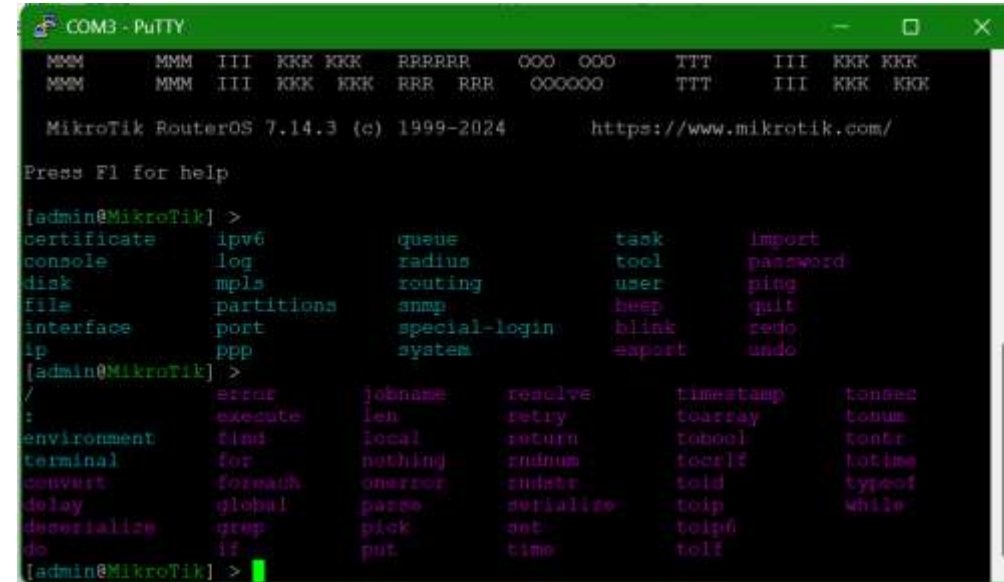


Access router through Console

- Press Tab to show commands

RouterOS's commands

- Format:
<command1>/<command2>/<command3> <param1>=<value> <param2>=<value>
- Common commands
 - ping
 - ip/address/add address=<ip_address/mask> interface=<port>
 - ip/address/remove
 - ip/address/print
 - ip/route/add dst-address=<ip_address/mask> gateway=<port or ip_next_hop>
 - ip/route/remove
 - ip/route/print



```
COM3 - PuTTY
MMM   MMM   III   KKK   KKK   RRRRRR   OOO   OOO   TTT   III   KKK   KKK
MMM   MMM   III   KKK   KKK   RRR   RRR   OOOOOO   TTT   III   KKK   KKK

MikroTik RouterOS 7.14.3 (c) 1999-2024      https://www.mikrotik.com/

Press F1 for help

[admin@MikroTik] >
certificate      ipv6             queue           task            import
console         log             radius          tool            password
disk            mpis           routing         user            ping
file           partitions      snmp           beep           quit
interface       port           special-login   blink          redo
ip              ppp            system         export         undo
[admin@MikroTik] >
/               error          jobname        resolve        timestamp     tonsac
:              execute       len           retry         toarray       tonus
environment    find          local         return        tobool       tonfr
terminal       for          nothing       endnum       toclif       totime
convert        foreach      onerror      rdnstr       told         typeof
delay          global       parse        serialize     toip         while
deserialize    grep         pick         set           toip6
do             if           put          time         tolf
[admin@MikroTik] >
```