

MikroTik RouterOS Lab Manual

MTCNA – MikroTik Certified Network Associate



MTCNA Class Lab Manual

Module 1 - Introduction

Lab 1. – Introduction

Goal: Build a basic wired network with a laptop, router and wired Ethernet connection to the Internet.

Steps:

1. Perform a hard reset on your router. Find your router at RouterBoard.com and download the QuickGuide.pdf for hard reset instructions.
2. Once router is reset, connect ether1 to the class router.
3. Connect your laptop to ether2-master-local.
4. Turn off your laptop wlan and enable DHCP on your laptop Ethernet.

Result: Internet access for your laptop through your router using only the default configuration with zero configuration.

Lab 2.- Router Management & preparation

Steps:

1. Web browse to your router at <http://192.168.88.1>. Log in as admin with no password. Orient yourself to the different menus.
2. Download Winbox from your router if you don't already have it. You can find it on the login page, by clicking the Winbox icon and saving to your desktop.
3. Use Winbox to log into your router via Layer 2 and Layer 3 by clicking first the MAC address and connect, then exit and click the IP address and connect..
4. Search the web for Putty.exe, download and use putty to SSH to your router through 192.168.88.1.
5. Once you are comfortable with all connection methods, log in with Winbox and upgrade using the SYSTEM-PACKAGES-CHECK FOR UPDATES and DOWNLOAD and UPGRADE buttons. Wait for reboot.
6. After reboot, upgrade the boot loader by clicking SYSTEM-ROUTERBOARD-UPGRADE.
7. Reboot the router.
8. Next, add a new user with Read policy by clicking SYSTEM-USERS with no password. Log out of Winbox and log back in with the new user you created. What has changed?
9. Set the admin password by clicking SYSTEM-USERS, double click the admin user, click the PASSWRD button and set the password to podX where the X is your pod number and click OK.
10. To conserve router resources, disable the following, seldom used packages. To disable a package click SYSTEM-PACKAGES, select each and click the X: