



ENFORCER

MANUAL

Configuring your MikroTik as a Standard LucidView Enforcer

Version 7

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STANDARD LUCIDVIEW ENFORCER

Guide version

Please visit <http://www.lucidview.net/making-enforcers/> to make sure you have the latest version of this Install guide. **This guide is version 7**

About

Access to the [LucidView Enforcer Portal](#) will allow you to configure any [MikroTik router](#) running RouterOS to make use of the LucidView Content Filter, and give access to the powerful LucidView Reporting engine on the Internet traffic flowing through the MikroTik router.

We call such a configured MikroTik a [LucidView Enforcer™](#).

Standard vs. Bolt-On Enforcer

<http://www.lucidview.net/making-enforcers/>

It is very important to understand the difference between a Standard vers a Bolt-on Enforcer, as described in the link above

To make a “Standard Enforcer” select the Enforcer Type as one of the “e” models in the Portal:

- e20 is for Mikrotik router model RB941-2nD
- e50 is for Mikrotik router model RB951Ui-2HnD
- e100 is for Mikrotik router model RB750r2

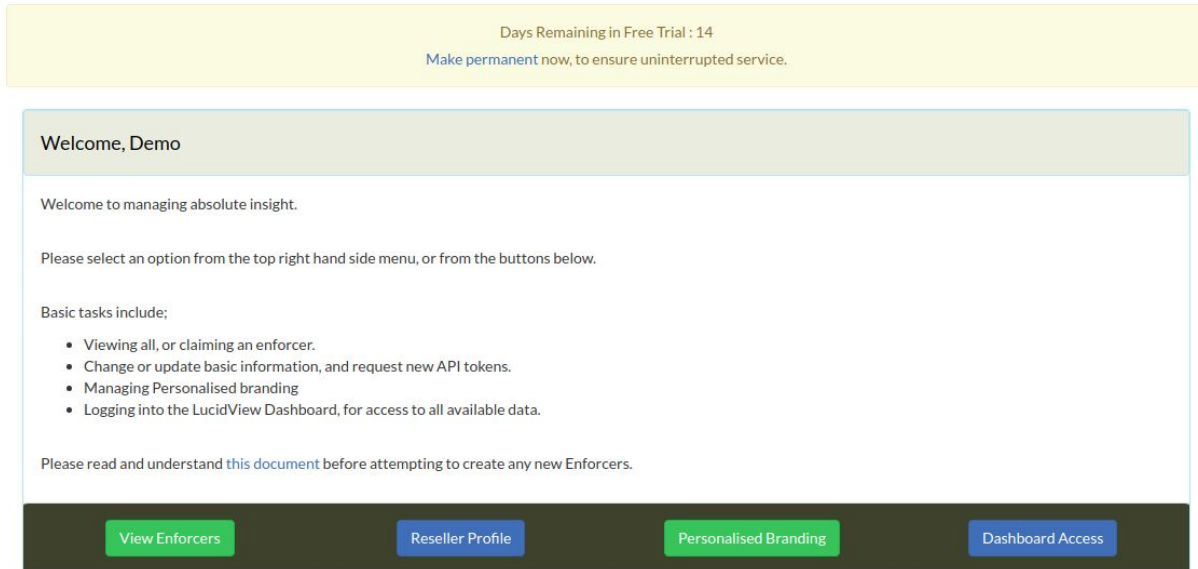
A Standard Enforcer does have very basic IP configuration options, configured via the Enforcer Portal GUI, however these basic IP configuration options are limited in that the Standard Enforcer can only be installed in a network described in this guide.

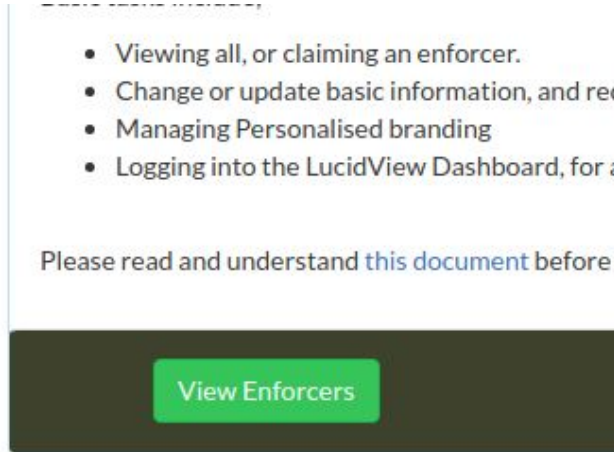
This Standard Enforcer install script requires that the Mikrotik router to be wiped. This can be accomplished by following the steps outlined below.

Please note that this script will completely re-configure the Mikrotik router. Do not use this script on installed, configured or productions Mikrotik routers.

GENERATING & DOWNLOADING THE LUCIDVIEW ENFORCER SCRIPT FOR YOUR MIKROTIK ROUTER

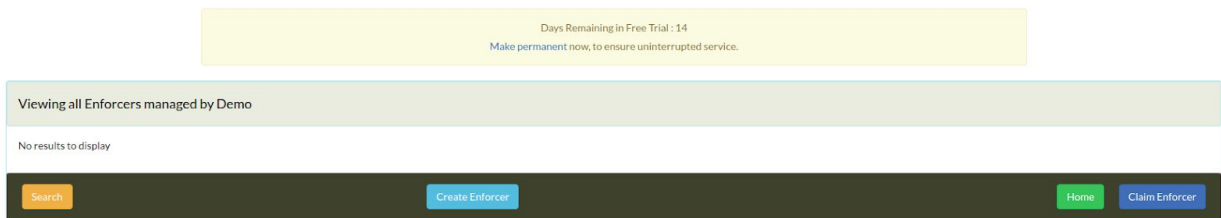
Once you have registered your organisation and logged in, you will be directed to the Welcome page. (See image below)





Click on the **View Enforcer** button as per the image above.

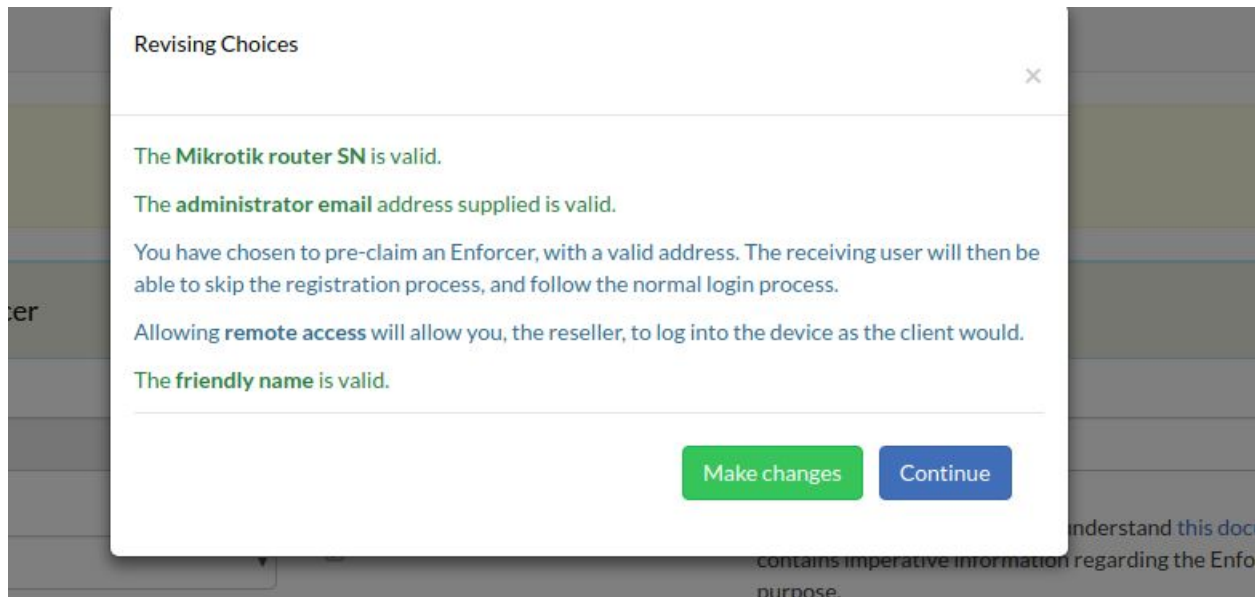
Click on **Create Enforcer** button



Fill in all the relevant information as per the image below, then click **Create**:

NB: Be sure to select select e20,e50 or e100 to make a Standard Enforcer

A pop up will appear to confirm all the details. Click continue.



After you have clicked **continue** your Enforcer will appear as example below.

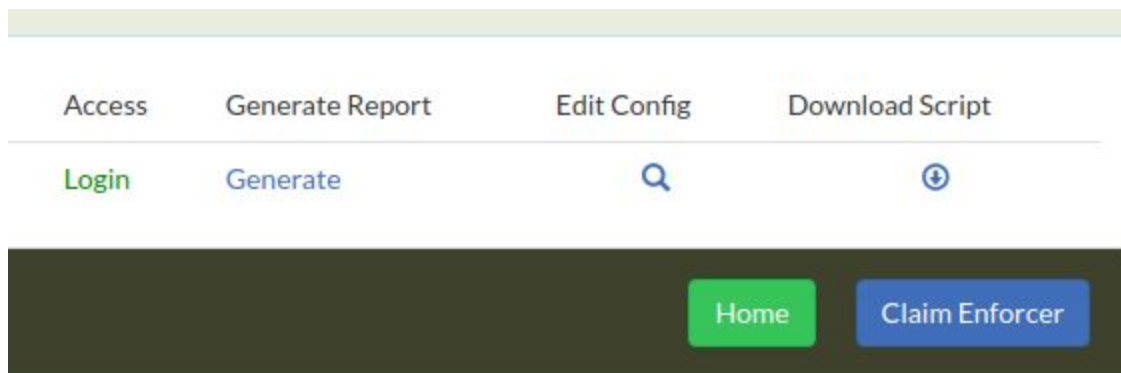
A new Enforcer has been successfully added!

Viewing all Enforcers managed by Demo

Device Serial	LucidView ID	Admin Address	Current Month Cost	Last Update	Friendly Name	Device Type	Access	Generate Report	Edit Config	Download Script
123456789987	468a5dcb	demo@lucidview.net	N/A	2018-11-12	Demo	e20	Login	Generate	🔍	⬇️

Search Create Enforcer Home Claim Enforcer

To download the script press the **down arrow**.



When you click the down arrow you will be taken to this page, Click on **Generate**.

Additional Information for :468a5dcb

Device is claimed	Created At : 2018-11-12	VPN Username : 468a5dcb
	Last Update : 2018-11-12	VPN Password : 280d39920344d6087529e9ae9f2d202cf45ae748dbce9d84c2575c9714da8ad
	Claimed At : 2018-11-12	
Cost is currently unavailable		Enforcer Install Script : Generate
Device Status : Offline		Please Note : This install script is intended for Mikrotik routers running RouterOS(Firmware) version 6.43.3 and above only. To successfully complete the imaging process, the Mikrotik requires Internet access, as well as traffic flow.

[View Config](#) [Back](#)

When you click Generate and Download your script will be downloaded for the MikroTik. Save the file in a place you can easily find. It will be in a format similar to the following, **468a5dcb.rsc**, i.e., a unique combination of 8 letters and numbers with the extension .rsc.

Generating Install Script for Standard Enforcer : 468a5dcb

A normal LucidView Enforcer is created from blank state using a script from the LucidView portal. All configuration settings are made according to the Portal script

LucidView Unique ID.	Password
468a5dcb	280d39920344d6087529e9ae9f2d202cf45ae748dbce9d84c2575c9714da8a

Once "Generate Script" has been clicked, your download will start automatically.

Ensure that you have read, and understand [this document](#) as it contains imperative information regarding the Enforcer type, and it's purpose.

[Back](#) [Generate and Download](#)

APPLY LUCIDVIEW ENFORCER SCRIPT TO MIKROTIK ROUTER

Connecting to the MikroTik router

Download the winbox application. This is a utility to configure MikroTiks.
<https://mikrotik.com/download>

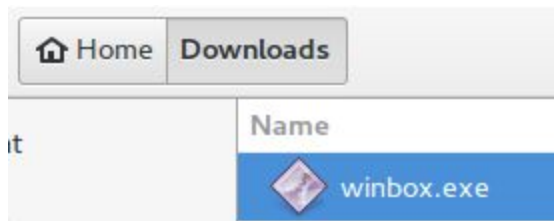
Software

Useful tools and utilities

[Winbox version 3.11](#) Configuration tool for RouterOS

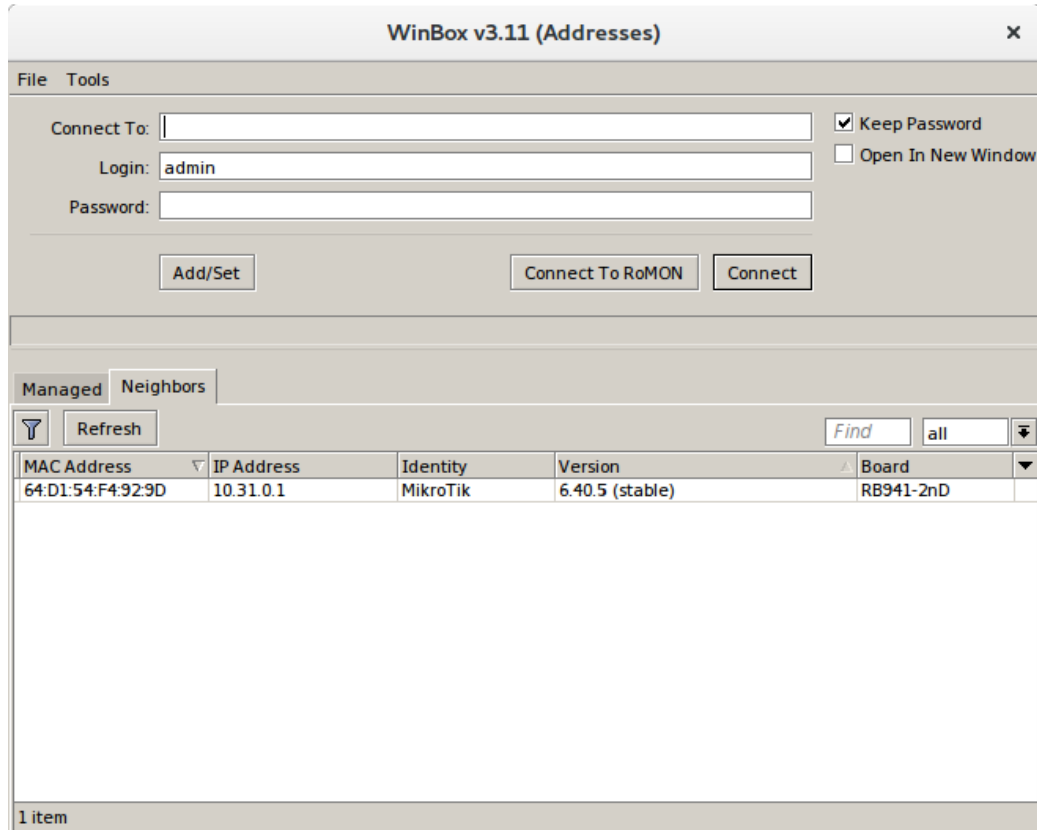
At the date of writing this document, the latest version is [Winbox 3.11](#)

Run the application.



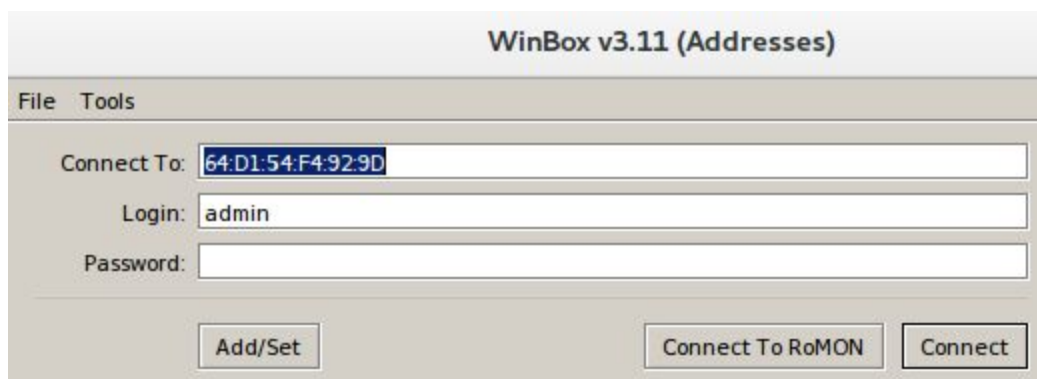
Double click on the application to run it. Windows might ask you permission to run the program.

Connect the MikroTik to your ethernet port on the laptop or desktop computer. Use port 2 on the MikroTik. Do not plug the LAN cable into port 1 labelled Internet. By default, your LAN should be configured to automatically get an IP address from the MikroTik. If you have a static IP configured on your LAN port, please change that to DHCP at this point.



The winbox application should come up as shown above.

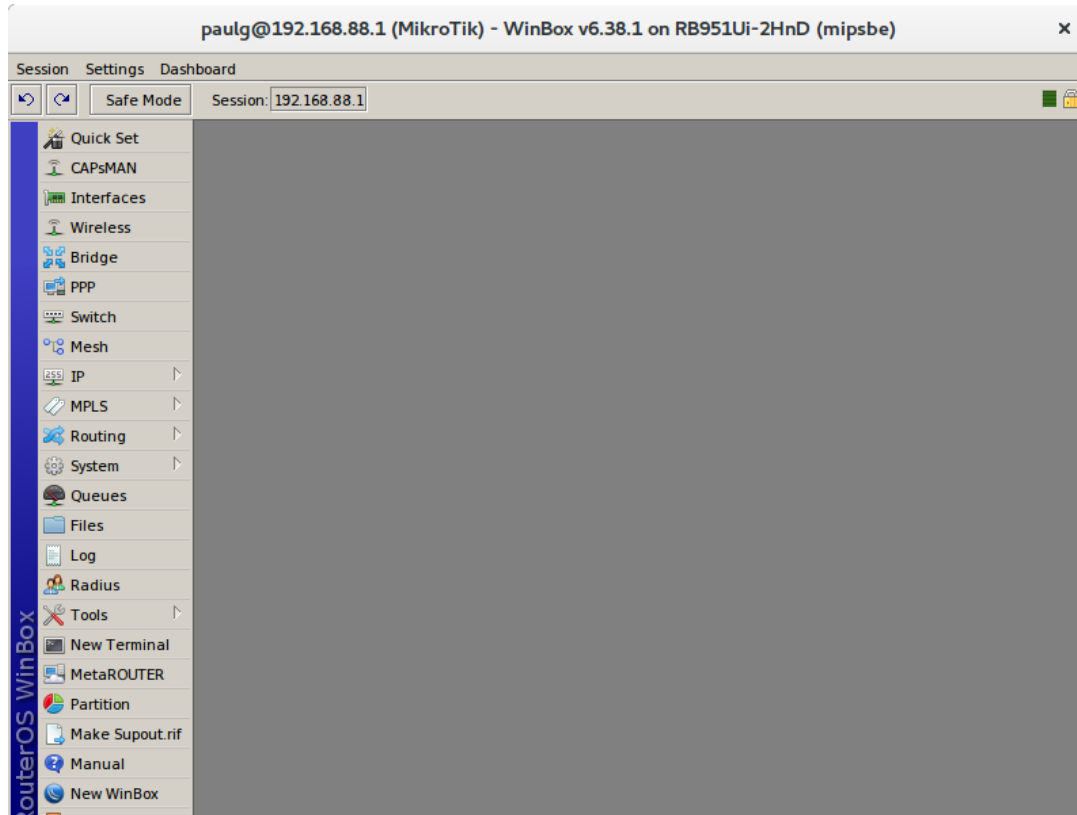
If the MAC address is not shown in the list give it a few seconds to discover the MikroTik. If more than one appears, check the MAC address on the MikroTik hardware and pick that one from the list.



Click on the MAC address so it populated the **Connect To** field with the MAC address as shown above.

The username should be `admin`, and the password field should be `admin`.

Click **connect**.

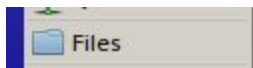


If the window above appears you have successfully opened the configuration interface of the MikroTik.

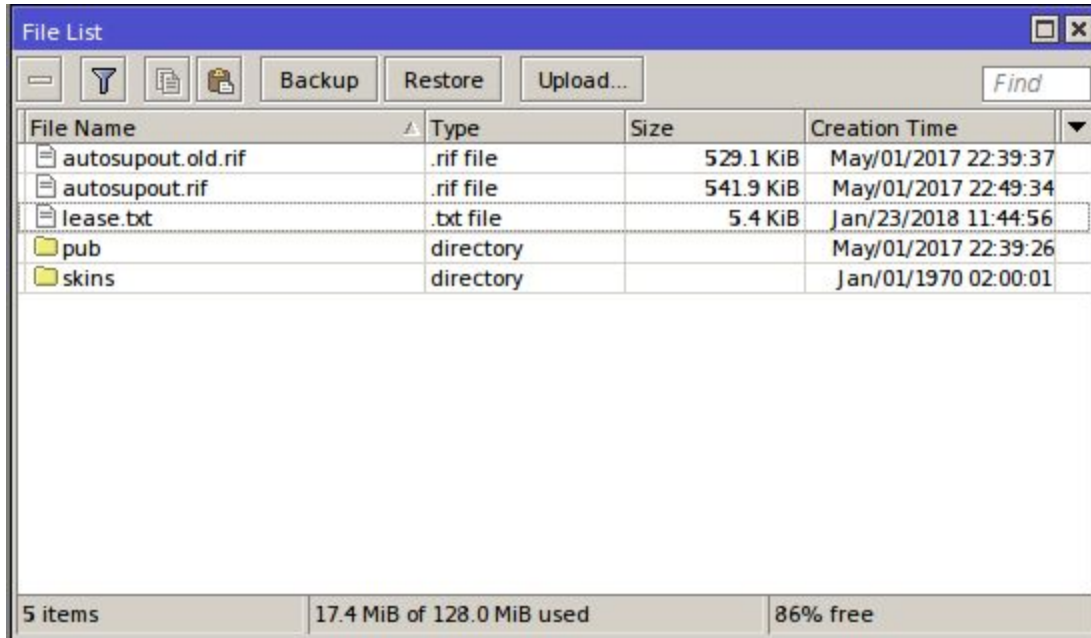
When the MikroTik starts up for the first time it will also have a small popup window with three options. The one option is OK. Click **OK** so you see the Window above.

UPLOAD THE CONFIGURATION SCRIPT TO THE MIKROTIK ROUTER

Click on the **Files menu icon**. This is files can be uploaded to the MikroTik.



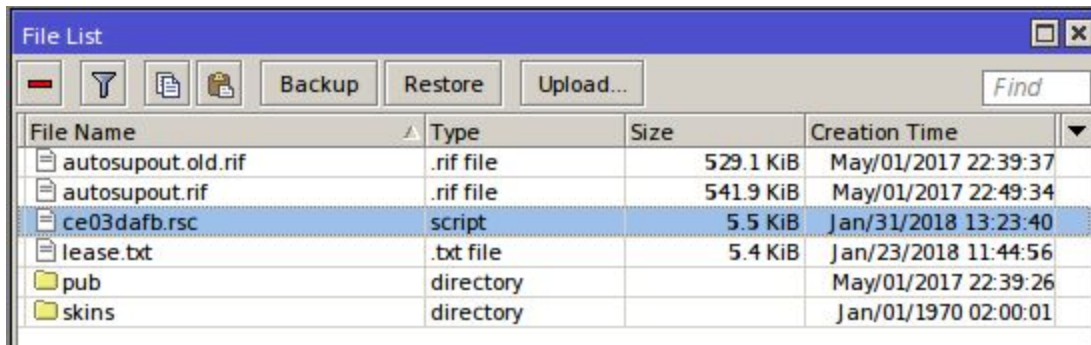
You may see a few files listed already.



File Name	Type	Size	Creation Time
autosupout.old.rif	.rif file	529.1 KiB	May/01/2017 22:39:37
autosupout.rif	.rif file	541.9 KiB	May/01/2017 22:49:34
lease.txt	.txt file	5.4 KiB	Jan/23/2018 11:44:56
pub	directory		May/01/2017 22:39:26
skins	directory		Jan/01/1970 02:00:01

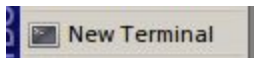
5 items 17.4 MiB of 128.0 MiB used 86% free

Click on the **Upload** button and **upload the file ce03dafb.rsc** (the file with the specific name you downloaded earlier). This is the configuration script allowing the MikroTik to be controlled from the Lucidview Cloud.



File Name	Type	Size	Creation Time
autosupout.old.rif	.rif file	529.1 KiB	May/01/2017 22:39:37
autosupout.rif	.rif file	541.9 KiB	May/01/2017 22:49:34
ce03dafb.rsc	script	5.5 KiB	Jan/31/2018 13:23:40
lease.txt	.txt file	5.4 KiB	Jan/23/2018 11:44:56
pub	directory		May/01/2017 22:39:26
skins	directory		Jan/01/1970 02:00:01

Click on **New Terminal**.



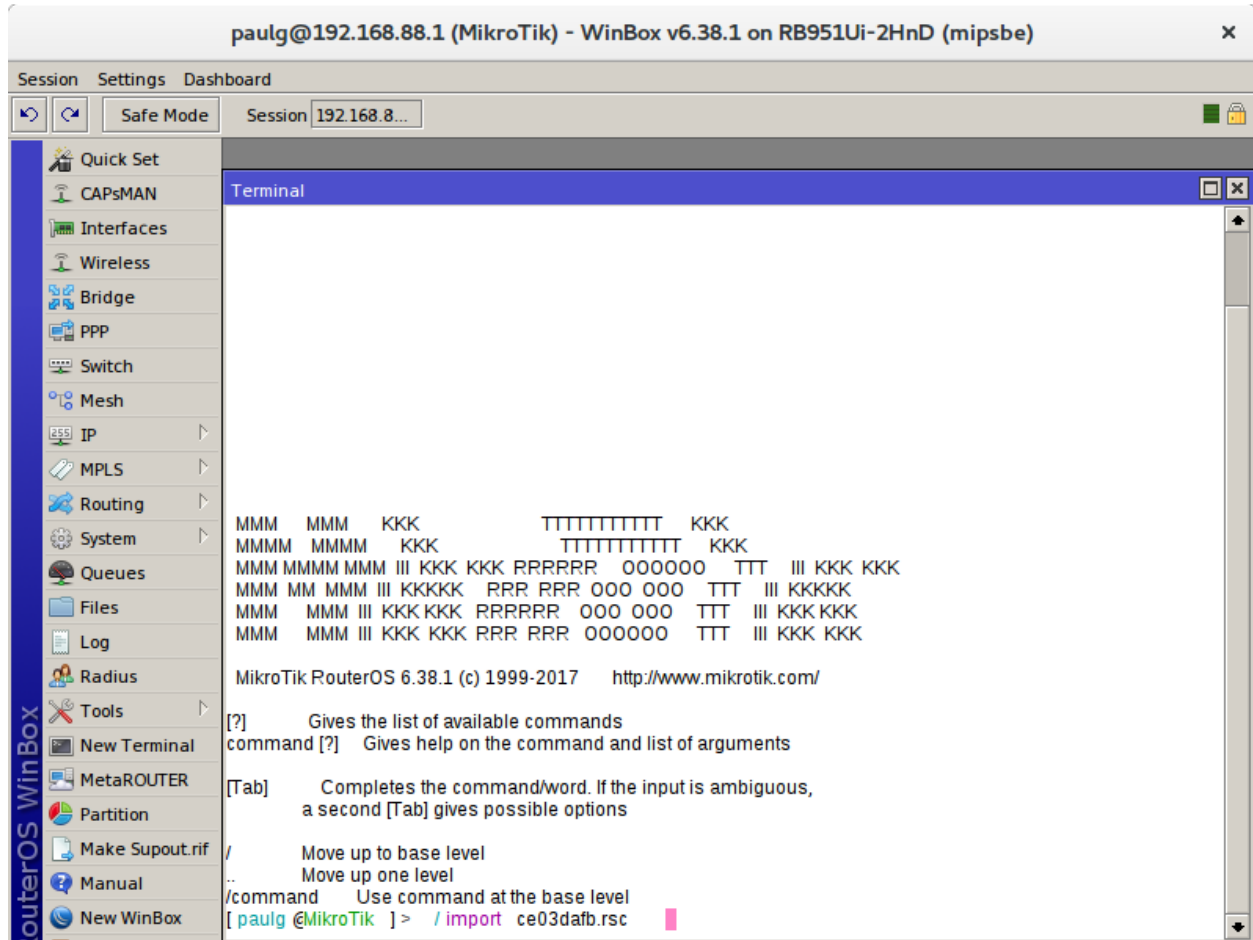
RESET MIKROTIK & RUN LUCIDVIEW ENFORCER SCRIPT

Below we have two methods of resetting the MikroTik, and running the lucidView Enforcer script.

1. Method 1 does it in two steps.
2. Method 2 does the two steps in a single command.

Method 1 - Reset & Configure in two steps

The first option allows you to see any error messages that may appear. We suggest this method for the first few MikroTik routers that you configure.



First reset the MikroTik in the terminal above enter the command

`reboot`

Once the MikroTik has rebooted reconnect on the MAC address. In the terminal type

`connect mac-address`

(use the filename you downloaded earlier) and press **enter**.

Observe the screen and note any errors. If there are any errors please do contact us for support on support@lucidview.net

If no errors were observed the MikroTik should be imaged and ready to go. Please click on **System and Reboot button** and reboot the MikroTik.

Method 2 - Reset and Configure in one step

Connect to the MikroTik on its MAC address while connected to port 2.

Upload the configuration script as described above, i.e., ce03dafb.rsc.

Enter the command

```
!^c{ A^d } ~! } A[ E^æ | M^A } Ee! E^dM^EHaà E&A
```

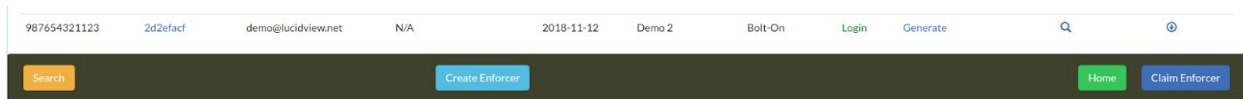
The command above will reset the MikroTik to a blank state and then run the configuration script. After this step the MikroTik should be a fully fledged Standard LucidView Enforcer.

TEST THE MIKROTIK

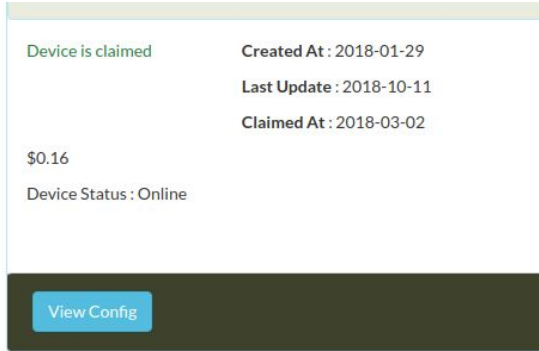
The MikroTik should now be ready for first time use.

Check connectivity of the MikroTik from the LucidView Portal

In order to see if your device is online click on the Enforcer's LucidView ID in the Portal:



You will be directed to your Device Status.



Confirm that the device status indicates Online,,without any warnings.

LOGIN TO ENFORCER TO CONFIGURE

Click on **login** to access the Enforcer, and navigate through its menu to configure.

