



ENFORCER

MANUAL

Configuring your MikroTik as a Bolt-on LucidView Enforcer

Version 7

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BOLT-ON 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™](#).

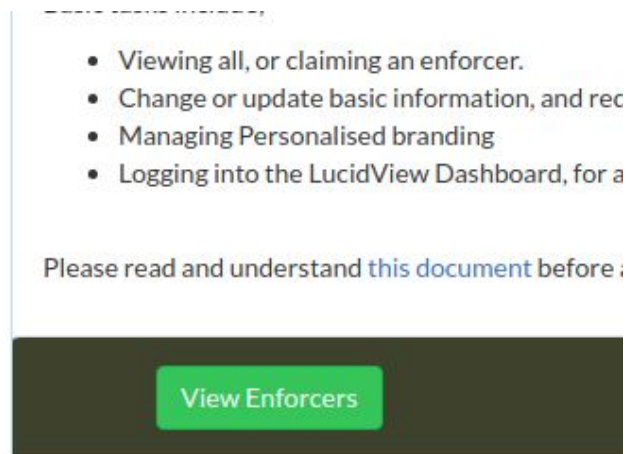
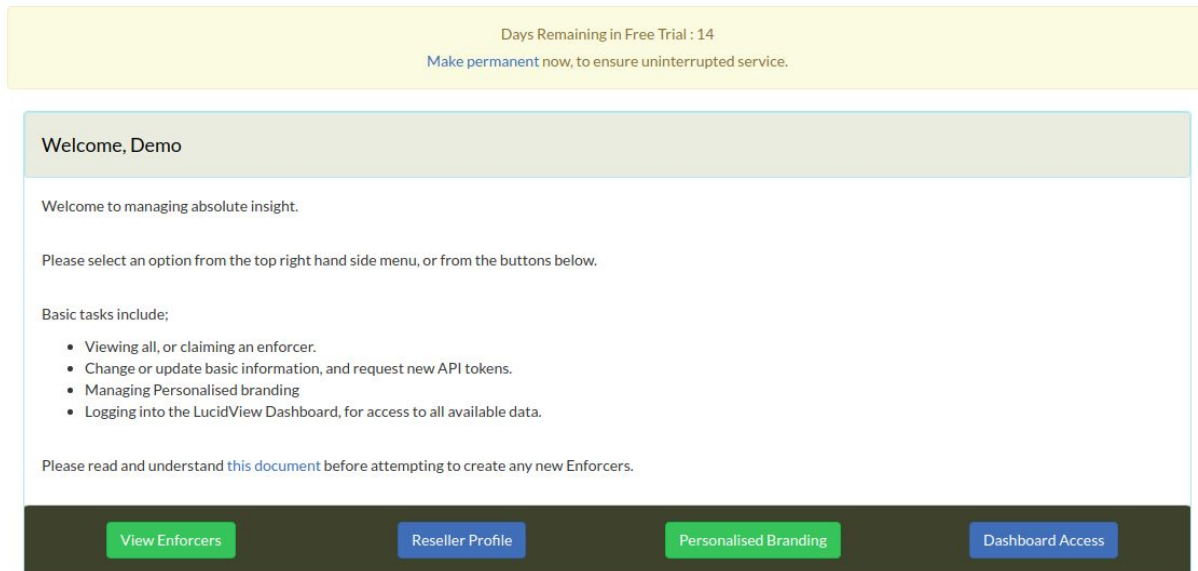
Standard vs. Bolt-On Enforcer

<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

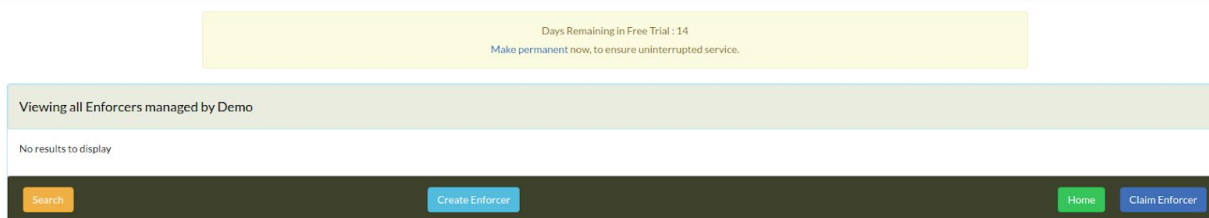
GENERATING & DOWNLOADING THE LUCIDVIEW ENFORCER SCRIPT FOR YOUR MIKROTIK ROUTER

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



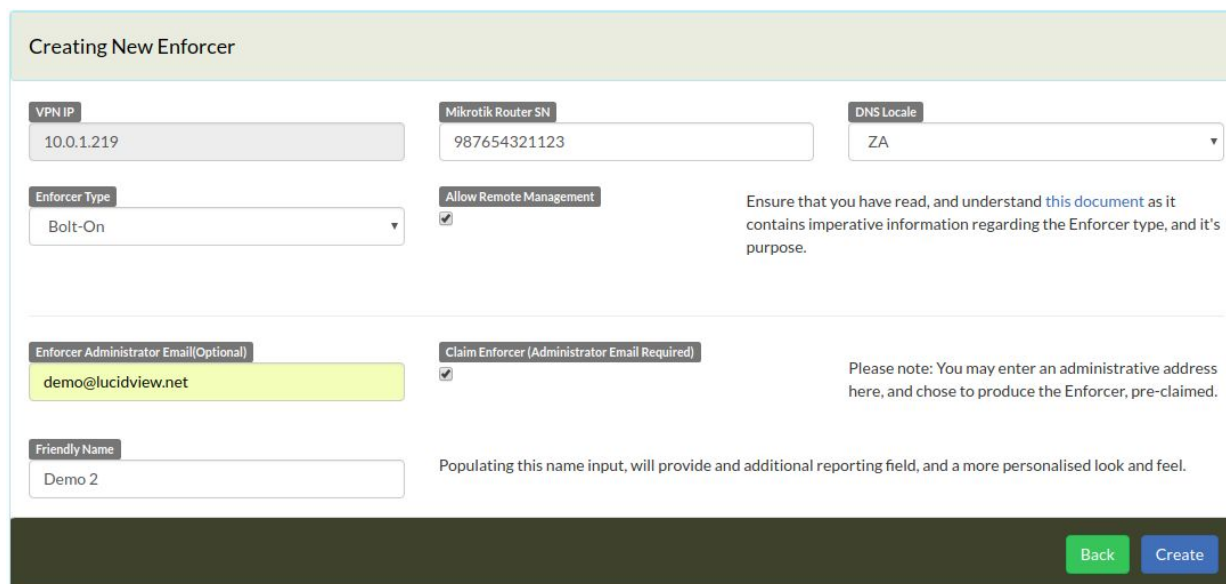
Click on the **View Enforcer** button as per the image above.

Click on **Create Enforcer** button

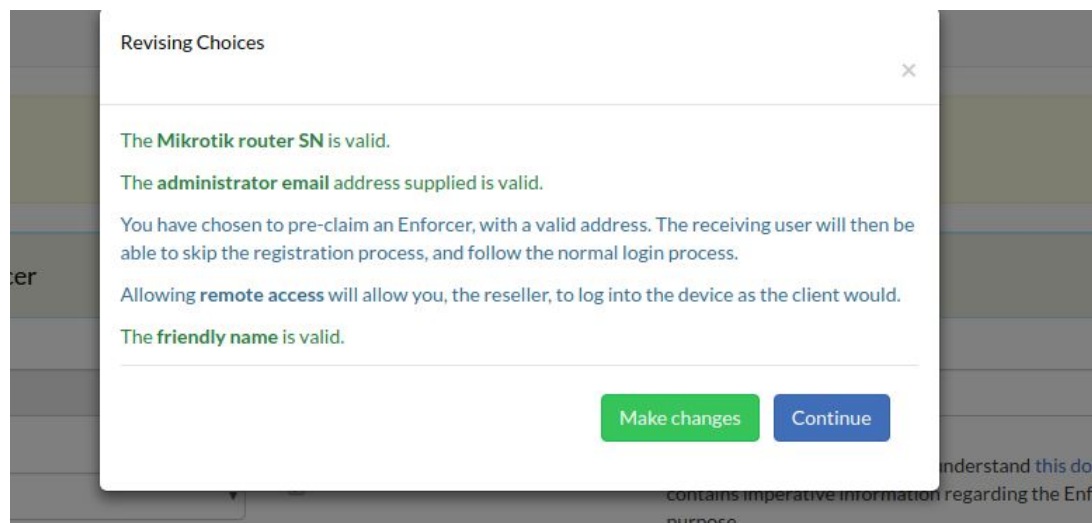


Fill in all the relevant information as per the image below, then click **Create**:

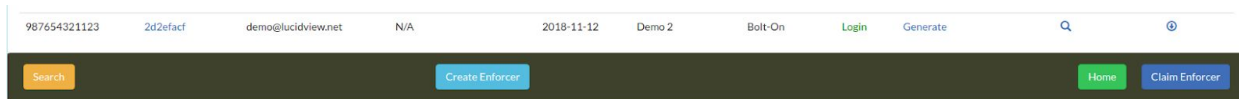
NB: Be sure to select the Bolt-on Enforcer options



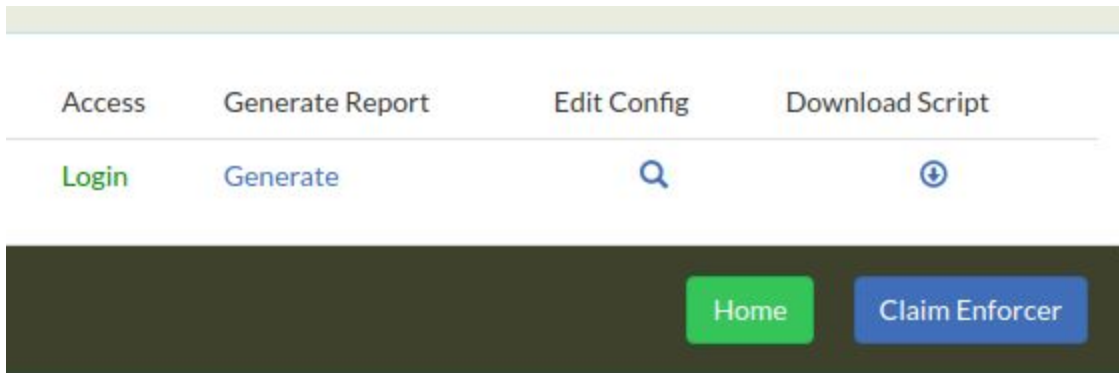
A pop up will appear to confirm all the details. Click continue.



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



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



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

Generating Enforcer Install Script for Bolt-on Enforcer : 2d2efacf

The LucidView Enforcer Bolt-on solution caters for existing Mikrotik installations that will benefit from the content filter and reporting provided by LucidView. The Enforcified Mikrotik is still managed by your network team via your preferred tools with the additional functionality of content filter and reporting.

LucidView Unique ID.

2d2efacf

Password

cebdabad772b8785734a84572d3006852d276b

Mikrotik Internal IP

192.168.88.1

If left blank, the above default IP will be issued.

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 its purpose.

Back

Generate Script

When you click Generate 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, **2d2efacf.rsc**, i.e., a unique combination of 8 letters and numbers with the extension .rsc.

APPLY LUCIDVIEW ENFORCER SCRIPT TO MIKROTIK ROUTER

Connecting to the MikroTik Router

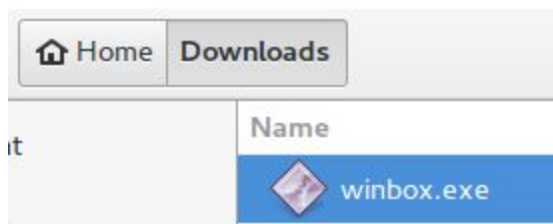
Download the winbox application. This is a utility to configure MikroTiks.

<https://mikrotik.com/download>



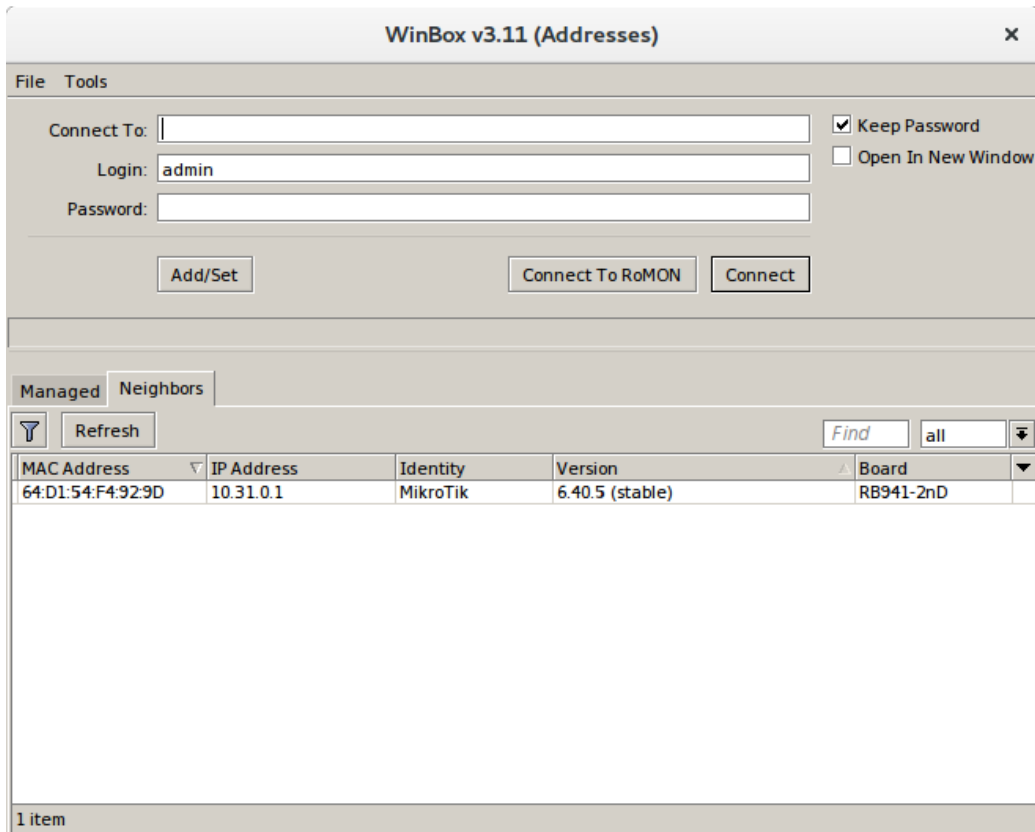
At the date of writing this document, the latest version is [Winbox 3.11](#)

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. Connecting with either the MAC address or IP address is acceptable for the purposes of this guide.



WinBox v3.11 (Addresses)

File Tools

Connect To: ☒ Keep Password
☐ Open In New Window

Login:

Password:

Add/Set Connect To RoMON Connect

Managed Neighbors

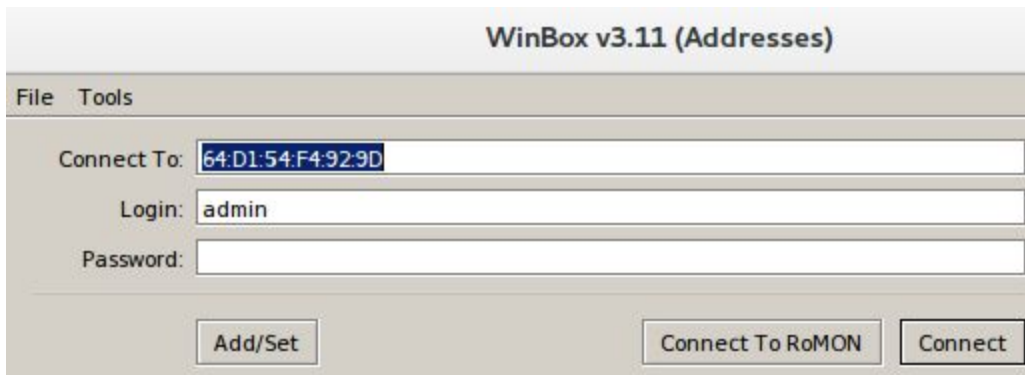
Find all

MAC Address	IP Address	Identity	Version	Board
64:D1:54:F4:92:9D	10.31.0.1	MikroTik	6.40.5 (stable)	RB941-2nD

1 item

The winbox application should come up as shown above.

If the MAC address or IP address is not shown in the list give it a few seconds to discover the MikroTik or manually enter the correct IP address and credentials.



WinBox v3.11 (Addresses)

File Tools

Connect To:

Login:

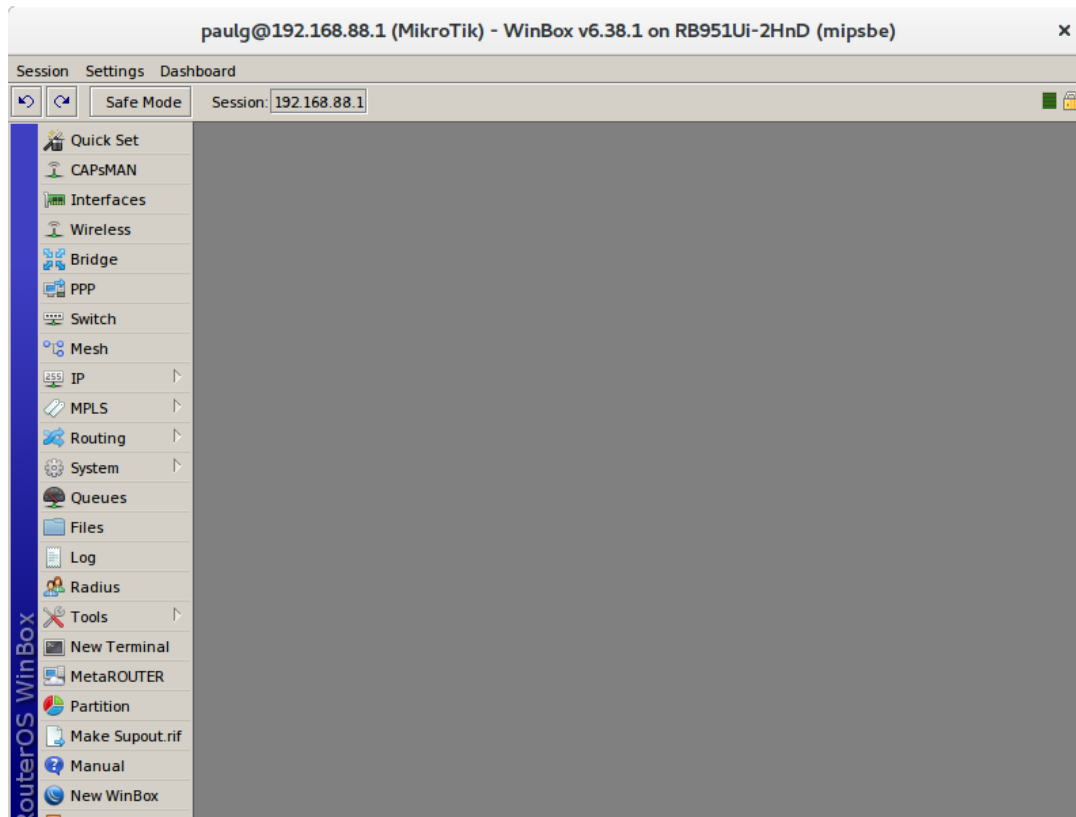
Password:

Add/Set Connect To RoMON Connect

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

Use the correct IP address or MAC address for your Mikrotik as well as the appropriate Login username and Password.

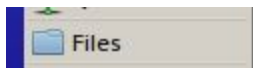
Click **connect**.



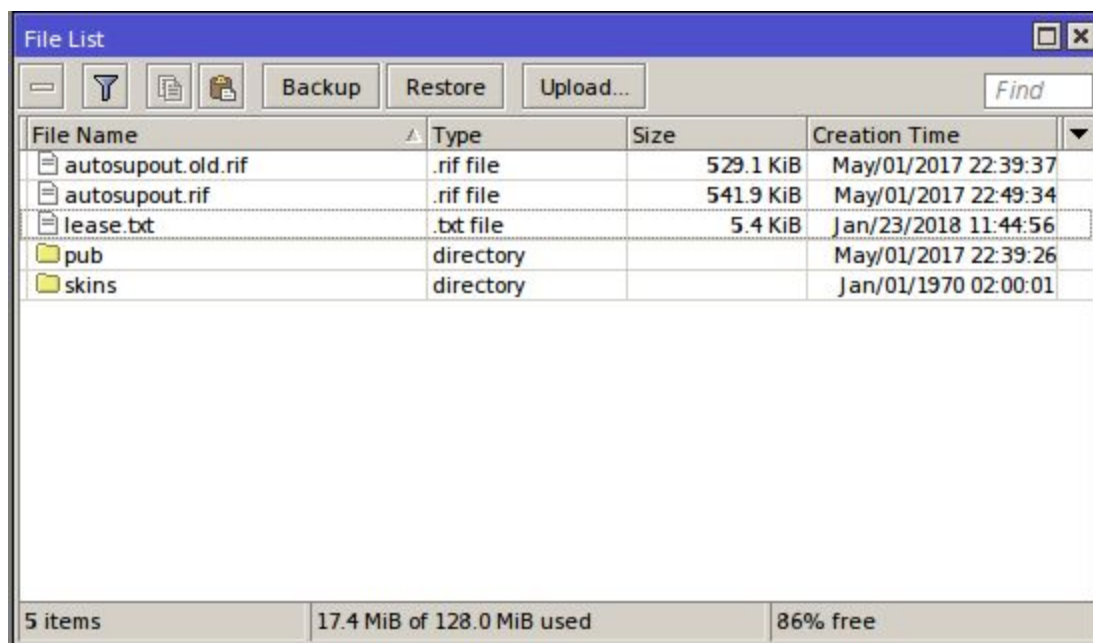
If the window above appears you have successfully opened the configuration interface of the MikroTik.

UPLOAD THE CONFIGURATION SCRIPT TO THE MIKROTIK ROUTER

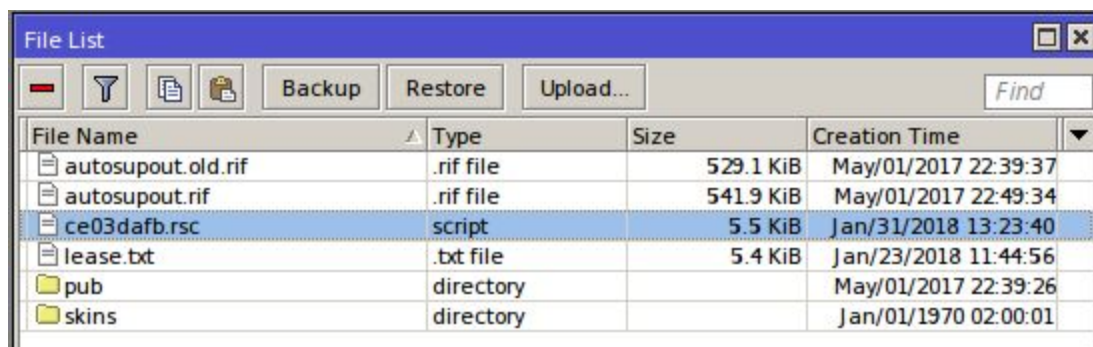
Click on the **Files menu icon**. This is files can be uploaded to the MikroTik.



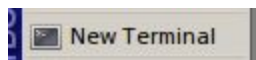
You may see a few files listed already.



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.

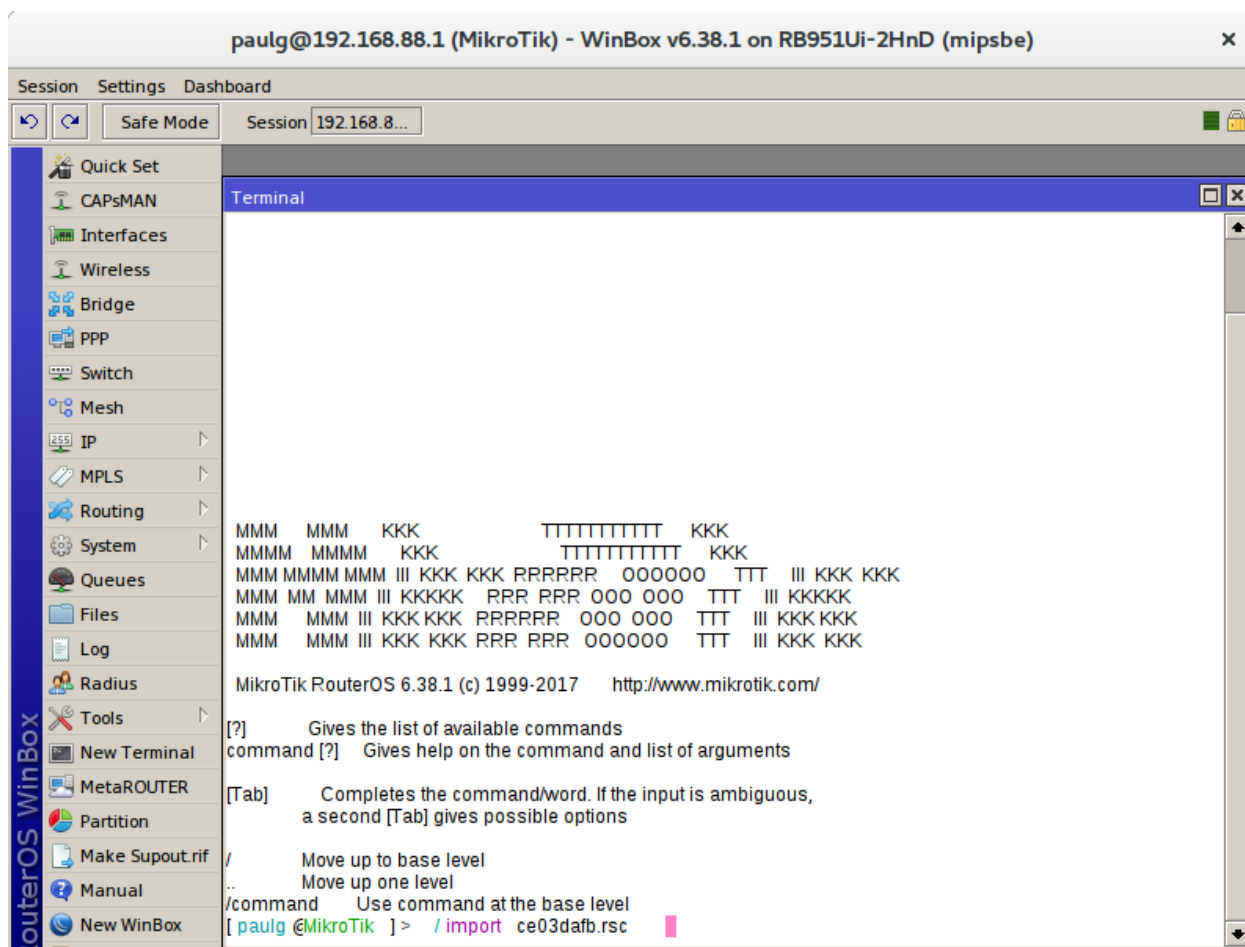


Click on **New Terminal**.



RUN LUCIDVIEW ENFORCER SCRIPT

This shows you how to run the script to enable the Mikrotik to communicate with the LucidView cloud.



Open a new terminal as demonstrated above.

In the terminal execute the command below.

'/import ce03dafb.rsc'

(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

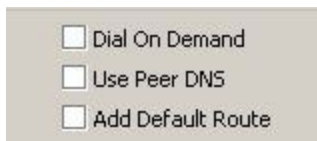
If no errors were observed the MikroTik should be configured and ready to go. Please log on to the LucidView Enforcer portal for this profile and confirm that the portal shows the device is online.

SPECIAL CASES

Existing VPN for Internet access

The above install redirects your LAN DNS traffic to the MikroTik, making your MikroTik router the DNS server for your LAN, which in turn is configured to use the LucidView DNS, over the VPN, as an upstream Forwarder DNS.

However, if you have an existing VPN, be sure to disable “Use Peer DNS” in you existing VPN connection, if it is enabled. See below:



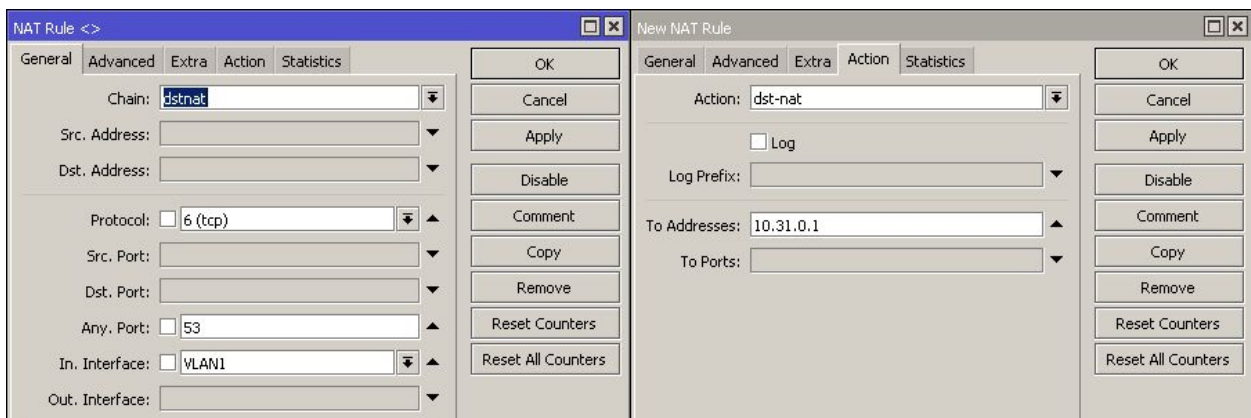
☐ Dial On Demand
☐ Use Peer DNS
☐ Add Default Route

(Please note, that this is also described in more technical detail, in the actual script supplied by LucidView.)

VLANs

If there are VLANs on your MiKroTik, consider adding an intercept per VLAN to direct the incoming DNS requests to the IP address of the Mikrotik in that VLAN.

For example, if you have a VLAN called VLAN1, with the Mikrotik IP on that VLAN configured as 10.31.0.1, add the following rules, one for TCP and another for UDP.



NAT Rule <>

General | Advanced | Extra | Action | Statistics

Chain: **dstnat**

Src. Address:

Dst. Address:

Protocol: ☐ 6 (tcp)

Src. Port:

Dst. Port:

Any. Port: ☐ 53

In. Interface: ☐ VLAN1

Out. Interface:

OK | Cancel | Apply | Disable | Comment | Copy | Remove | Reset Counters | Reset All Counters

New NAT Rule

General | Advanced | Extra | Action | Statistics

Action: **dst-nat**

☐ Log

Log Prefix:

To Addresses: **10.31.0.1**

To Ports:

OK | Cancel | Apply | Disable | Comment | Copy | Remove | Reset Counters | Reset All Counters

On the left the source, VLAN1, protocol TCP as well as destination port 53 are specified. On the right the action for this rule is a destination nat to the address 10.31.0.1 on Mikrotik.

Two rules will be required for every VLAN. One rule for TCP, and another to handle UDP. Both UDP and TCP are necessary for DNS to work correctly.

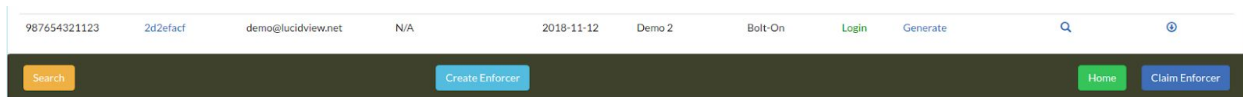
(Please note, that this is also described in more technical detail, in the actual script supplied by the LucidView portal.)

TEST THE MIKROTIK

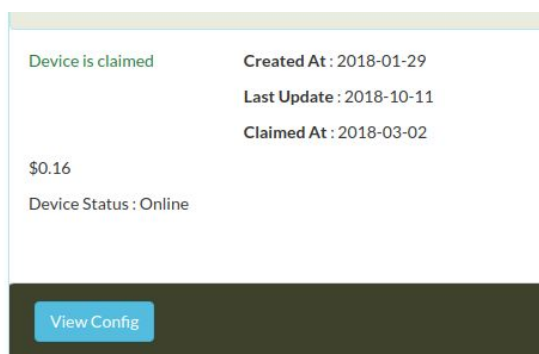
The MikroTik should now be ready for first time use.

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.

