

# Configurar Router Mikrotik

## Conexión inicial

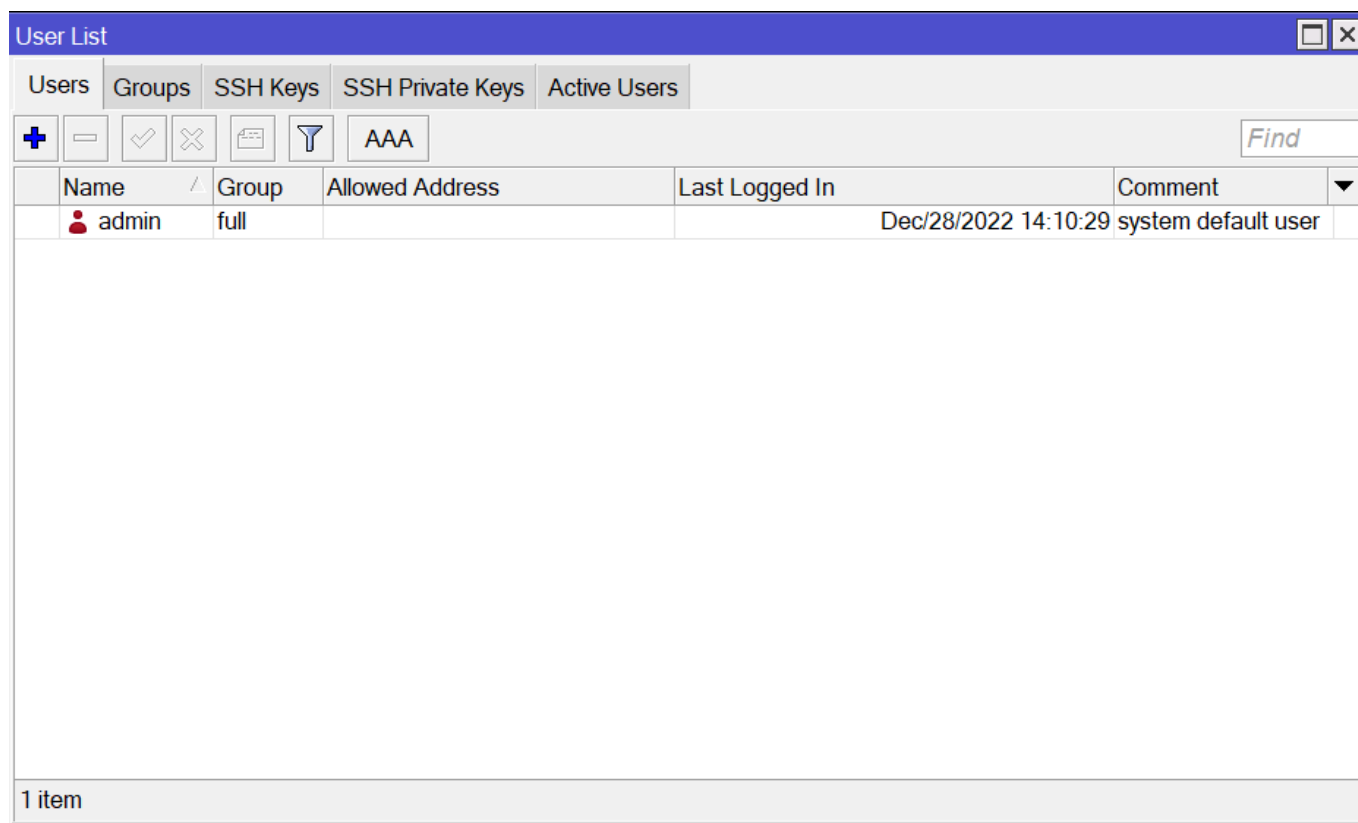
- Conectamos la boca Eth 1 del mikrotik a la misma red a la que estemos conectados . La boca 1 tiene un cliente de DHCP y cogerá una ip automáticamente.
- Usando el programa Winbox previamente descargado de la página de Mikrotik, nos conectamos o bien por ip o usando la MAC mediante la pestaña Neightbords para configurarlo

usuario: admin  
password : no tiene

## Cambiar la contraseña del usuario admin

por defecto el usuario admin viene sin contraseña, por lo que debemos asignarle una contraseña:

Vamos a system/users



## Sincronizar hora

se cambia la zona horaria a Atlantic/Canary. Vamos a System/Clock

Time Manual Time Zone

Time: 08:32:54

Date: Dec/29/2022

Time Zone Autodetect

Time Zone Name: Atlantic/Canary

GMT Offset: +00:00

DST Active

OK

Cancel

Apply

Activamos el cliente de ntp del router en → system/sntp client

SNTP Client

Enabled

Mode: unicast

Primary NTP Server: hora.roa.es

Secondary NTP Server: 0.0.0.0

Server DNS Names:

Dynamic Servers:

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Poll Interval: 128 s

Active Server: 150.214.94.5

Last Update From: 150.214.94.5

Last Update: 00:00:52 ago

Last Adjustment: 5 065 us

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Last Bad Packet From:

Last Bad Packet:

Last Bad Packet Reason:

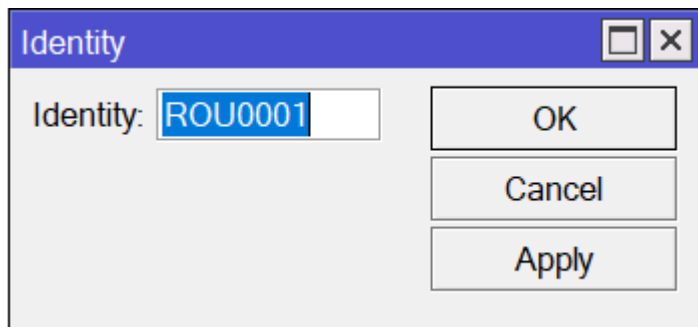
OK

Cancel

Apply

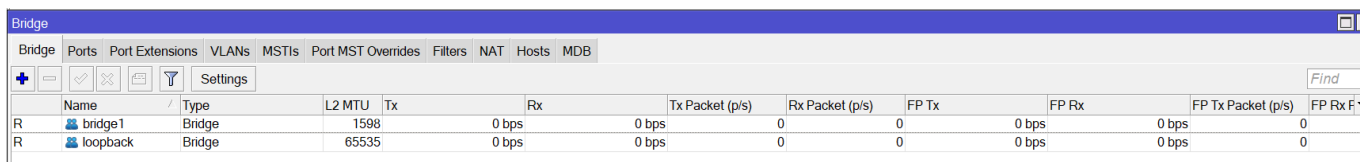
## Cambiamos el identificador del router

Vamos a → System/Identity



## Creamos un Bridge

En el menú /BRIDGE vamos a crear dos bridges, uno para aplicar la configuración a los puerto eth1 al eth5, el otro lo llamamos loopback pero no tiene asociado ningún interfaz



Name	Type	L2 MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx	FP Rx	FP Tx Packet (p/s)	FP Rx F
R bridge1	Bridge	1598	0 bps	0 bps	0	0	0 bps	0 bps	0	0
R loopback	Bridge	65535	0 bps	0 bps	0	0	0 bps	0 bps	0	0

## Configuración LTE -> Interfaces/LTE APNs

### Para Vodafone

- name → Vodafone
- APN → ac.vodafone.es
- IP Type → IPv4
- Use Peer DNS → true
- Add default route → true
- Authentication → CHAP
- user → vodafone
- password → vodafone

The screenshot shows the Mikrotik WinBox interface. At the top, there's a tab for 'LTE APNs'. Below it is a table with columns 'Name' and 'APN'. One entry is visible: 'Vodafone' with 'ac.vodafone.es'. A modal window titled 'LTE APN <Vodafone>' is open, showing configuration fields: Name (Vodafone), APN (ac.vodafone.es), IP Type (IPv4), Use Peer DNS (checked), Add Default Route (checked), Default Route Distance (2), IPv6 Interface (none), Authentication (CHAP), User (vodafone), Password (masked with asterisks), and Passthrough Interface (none). Buttons for OK, Cancel, Apply, Comment, Copy, and Remove are on the right. At the bottom left, it says '1 item (1 selected)'.

## Interfaz LTE

The screenshot shows the Mikrotik WinBox interface for configuring an LTE interface. The 'Interface List' tab is active, showing a table with columns: Name, Type, MTU, Actual MTU, L2 MTU, Tx, Rx, Tx Packet (p/s), Rx Packet (p/s), FP Tx, FP Rx, FP T. One entry is visible: 'lte1' of type 'LTE' with MTU 1500. Below the table is the configuration window for 'Interface <lte1>'. It has tabs for General, Cellular, Status, and Traffic. The 'General' tab is selected, showing fields for Name (lte1), Type (LTE), MTU (1500), Actual MTU (1500), L2 MTU, MAC Address (AC:50:43:1A:EE:FD), Network Mode (GSM, 3G, LTE), Bands (1, 3, 7, 20, 8, 2, 38, 40, 41, 39, 5, 12, 17, 25, 26), PIN (\*\*\*\*), Operator, Modem Init, APN Profile (Vodafone), Allow Roaming (unchecked), Manufacturer (MikroTik), Model (R11e-LTE6), and Revision (R11e-LTE6\_V025). At the bottom, it shows 'enabled', 'running', and 'slave' status. Buttons for OK, Cancel, Apply, Disable, Comment, Torch, Scan..., and Cell Monitor... are on the right.

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