



HotSpot – Mikrotik User Manager (RADIUS)



1 Presentación.

2 WiFi Típico.

3 WiFi Hotspot.

4 Qué es User Manager. ?
(Radius)

5 Configuración y
Laboratorio.

6 Ideas Generar Dinero.

SERVICES

01 DISTRIBUIDOR
• Mayorista MIKROTIK

02 ENTRENAMIENTO
• Mikrotik
• Zycoo VoIP

03 CONSULTORIA
• QoS
• PPP
• Firewall
• Routing
• ISP

04 TELEFONIA IP
• Billing
• Call Center
• AGI Base de Datos
• IVR

CONTACT US

🏠 La Paz - Santa Cruz / BOLIVIA

☎ +591.72540809
+591.72090630

✉ gr@inova.com.bo



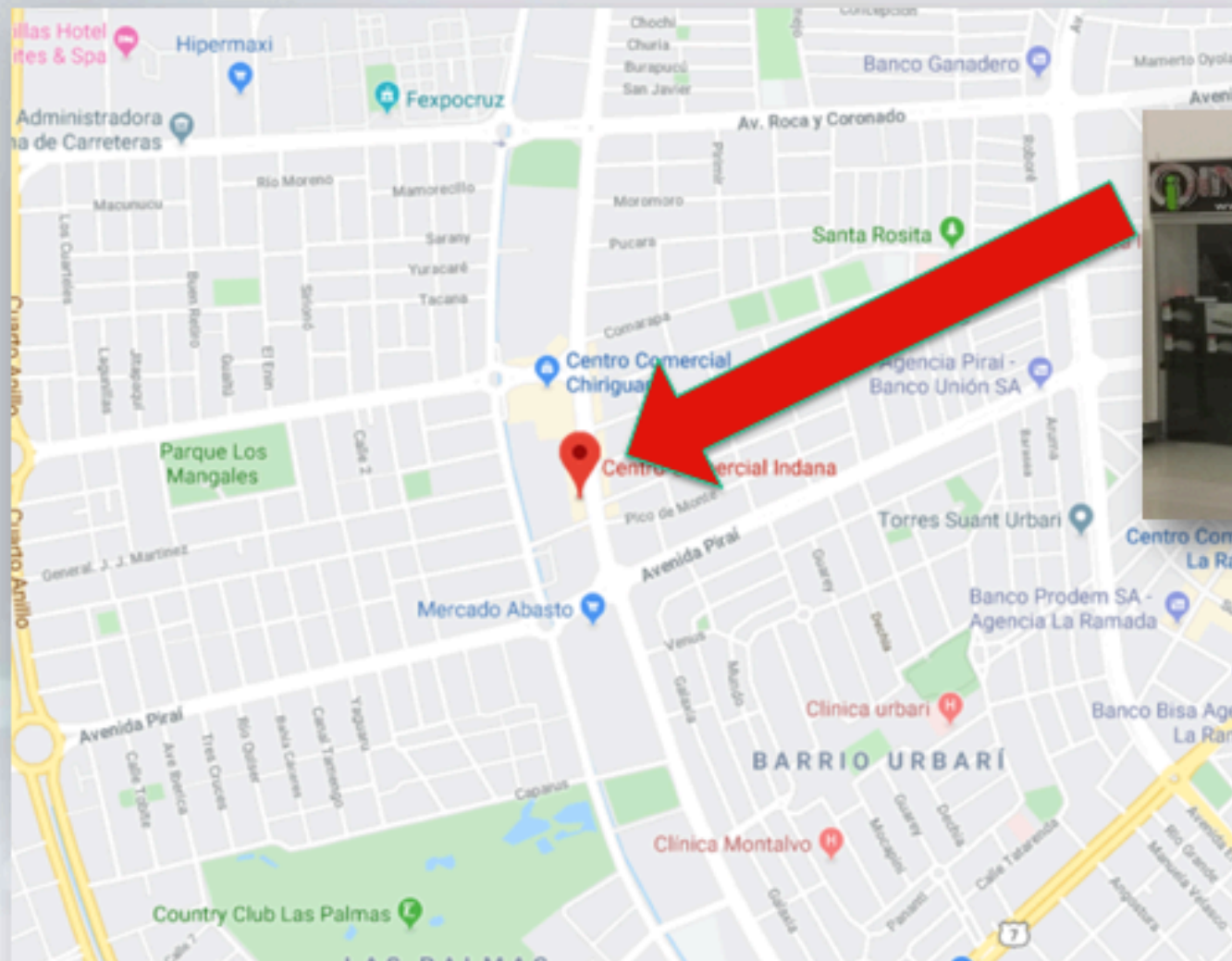
www.inova.com.bo
www.mikrotik.inova.com.bo

Tenemos la solución que necesitas.



TRAINER's Mikrotik

Ing. Richart Rojas V.
Ing. Edwin Rojas V.



SANTA CRUZ - Sucursal 3

Av. Roque Aguilera entre Av. El Palmar y, Av. Piraí,
Tercer Anillo (Centro Comercial INDANA – LOCAL 25)
Tel: 72540809



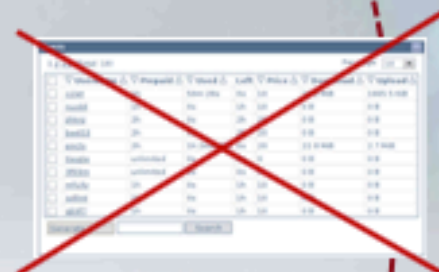
2 WiFi Típico.

Desafío

- Clave Compartida



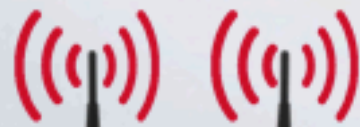
- Sin Gestión



- Saturación y Monopolio Ancho de Banda



3 WiFi Hotspot.



Hotspot

ServersServer ProfilesUsersUser ProfilesActiveHostsIP BindingsService PortsWalled GardenWalled Garden IP ListCookies

Find

Domain	Address	Uptime	Idle Time	Session Time	Rx Rate	Tx Rate	Rx Packets (p/s)	Tx Packets
	10.10.0.40	00:43:05	00:00:27		4.1 kbps	262.2 kbps	13	21
	10.10.0.184	00:23:44	00:00:27		3.7 kbps	262.2 kbps	11	21
	10.10.1.61	00:52:59	00:00:27		25.9 kbps	259.4 kbps	17	28
	10.10.0.176	00:27:50	00:00:27		10.2 kbps	256.4 kbps	21	21
	10.10.0.178	00:05:25	00:00:27		4.4 kbps	239.2 kbps	12	20
	10.10.0.202	00:04:06	00:00:27		9.4 kbps	235.1 kbps	15	19
	10.10.0.55	00:29:37	00:00:27		10.3 kbps	205.8 kbps	12	17
	10.10.1.0	00:27:54	00:00:26		9.1 kbps	130.1 kbps	8	16
	10.10.1.73	00:24:02	00:00:27		9.3 kbps	125.1 kbps	8	12
	10.10.0.106	00:00:42	00:00:27		29.5 kbps	119.7 kbps	41	15
	10.10.0.2	00:41:54	00:00:27		3.7 kbps	115.3 kbps	6	9
	10.10.0.253	01:42:39	00:00:27		29.5 kbps	96.9 kbps	45	14
	10.10.1.76	00:17:14	00:00:26		10.4 kbps	85.9 kbps	9	10
	10.10.1.69	00:25:01	00:00:27		50.0 kbps	28.6 kbps	20	13
	10.10.0.166	00:58:28	00:00:26		1923 bps	18.3 kbps	1	2
	10.10.1.36	00:37:48	00:00:27		7.6 kbps	16.1 kbps	16	10

67 items (1 selected)



3 WiFi Hotspot.



Creación Voucher
x Lote

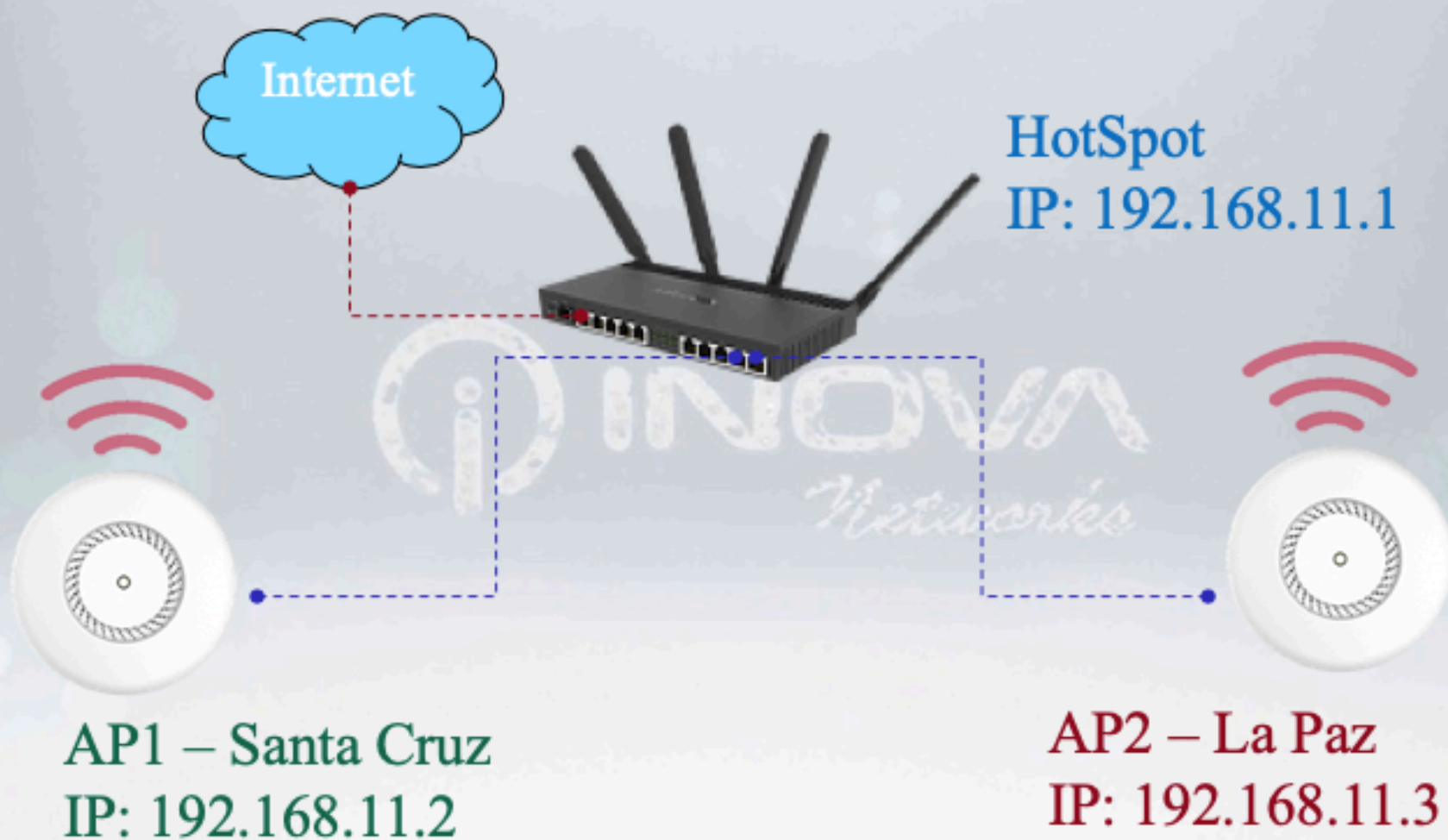
Restricción
x Megas

Restricción
x Tiempo

4

Qué es User Manager. ? (Radius)





Paso 1: Crear una red WiFi "Típico"

AP1 – Santa Cruz

Después de crear la red WiFi "AP1 Santa Cruz y AP2 La Paz", configuramos la misma de tal forma que NO pida autenticación (password) al momento de registrarse a la red.

Interface <wlan1>

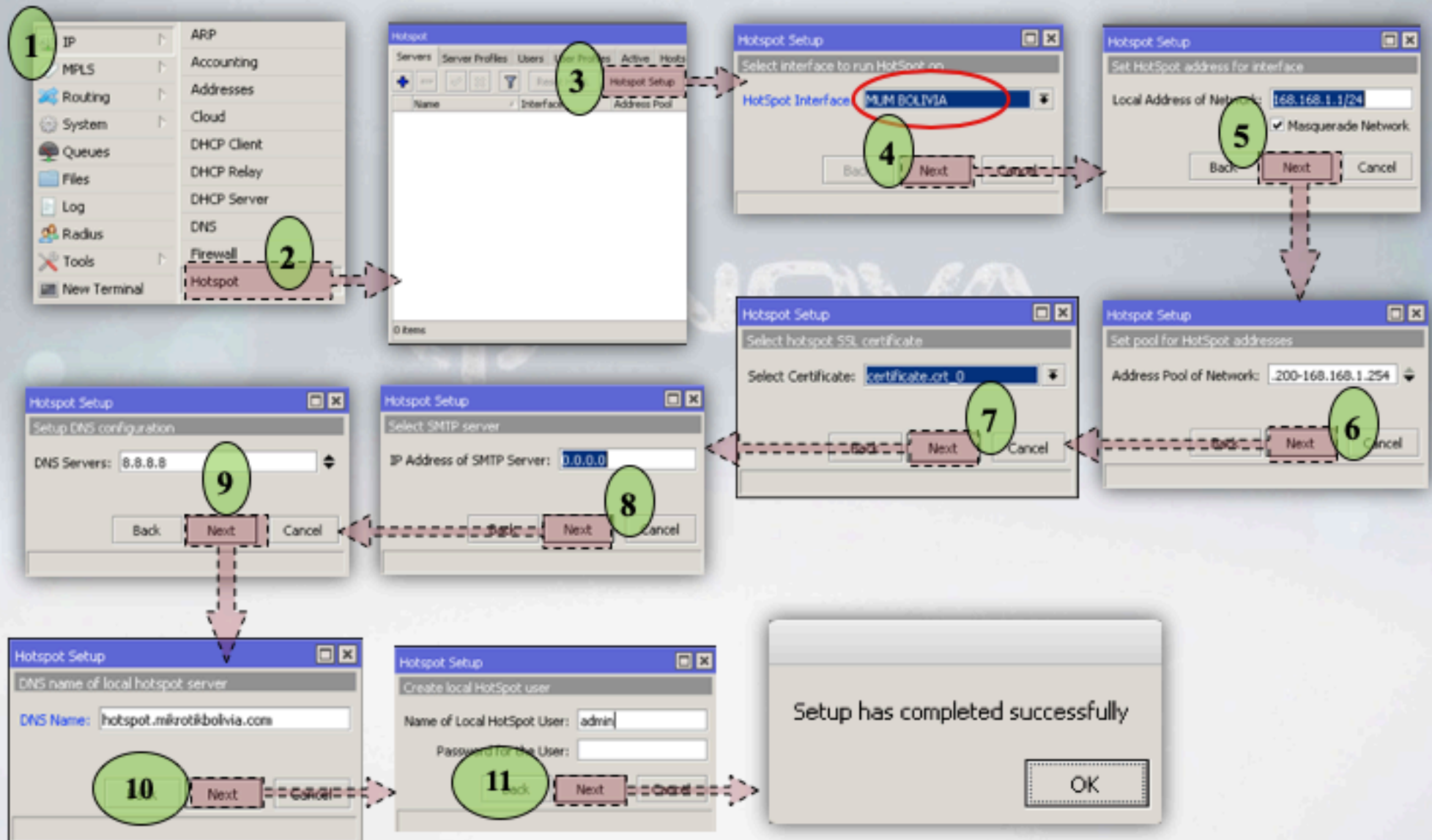
General	Wireless	Data Rates	Advanced	HT
Mode: ap bridge				
Band: 2GHz-B/G/N				
Channel Width: 20MHz				
Frequency: 2412				
SSID: Santa Cruz				
Radio Name: E48D8CFE5273				
Scan List: default				
Wireless Protocol: any				
Security Profile: default				

AP2 - La Paz

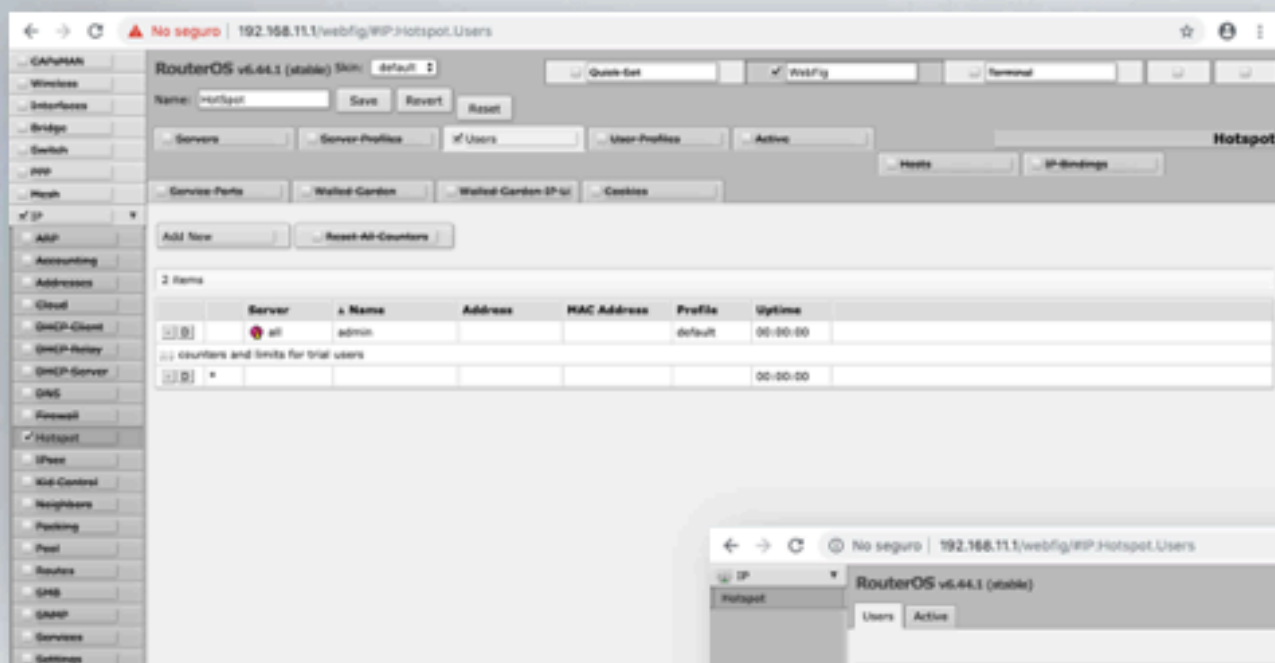
Interface <wlan1>

General	Wireless	Data Rates	Advanced	HT	HT
Mode: ap bridge					
Band: 2GHz-B/G/N					
Channel Width: 20MHz					
Frequency: 2412					
SSID: LA PAZ					
Radio Name: E48D8CFE5273					
Scan List: default					
Wireless Protocol: any					
Security Profile: default					
WPS Mode: push button					

Paso 2: Configuración básica Hotspot



Paso 3: Configuración Perfil Acceso Operador



RouterOS v6.44.1 (stable) Skin: default

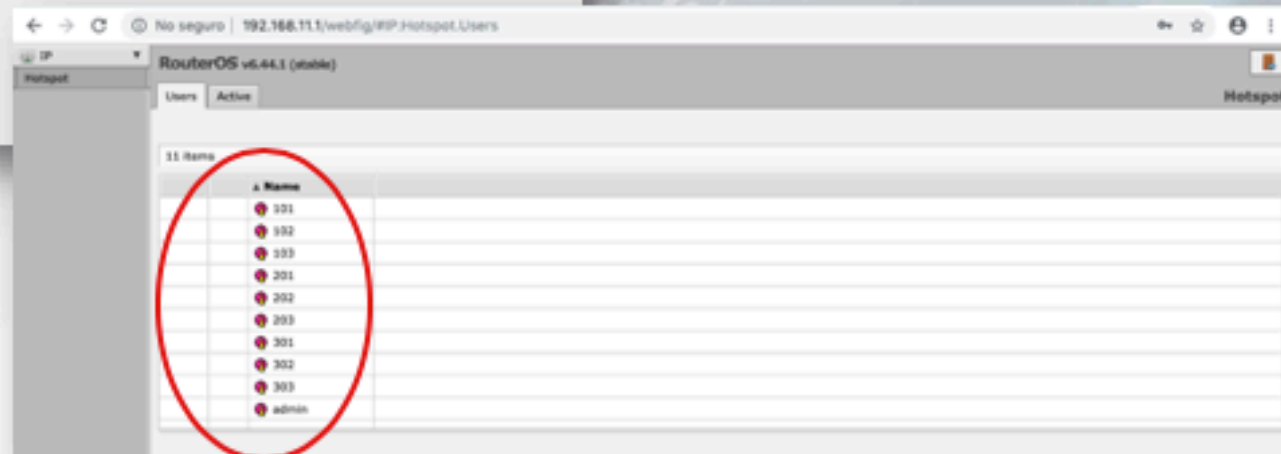
Name: hotspot Save Revert Reset

Servers Server-Profile Users User-Profile Active Hotspot

Service-Profile Waited-Condition Waited-Condition-IP-List Cookies

Add New Reset-All-Counters

Server	Name	Address	MAC Address	Profile	Uptime
all	admin			default	00:00:00
counters and limits for trial users					
					00:00:00



RouterOS v6.44.1 (stable)

Users Active

11 items

Name
301
302
303
301
302
303
301
302
303
admin

Paso 4: Instalación User Manager

1 (HotSpot) - WinBox v6.45.7 on RB4011iGS+5HacQ2HnB (arm)

2 <http://www.mikrotik.com/download>

	6.44.6 (Long-term)	6.45.7 (Stable)
ARM		
Main package		
Extra packages		
The Dude server		

Nombre	
wireless-6.37.1-mipsbe.npk	
user-manager-6.37.1-mipsbe.npk	
ups-6.37.1-mipsbe.npk	
system-6.37.1-mipsbe.npk	
security-6.37.1-mipsbe.npk	
routing-6.37.1-mipsbe.npk	
ppp-6.37.1-mipsbe.npk	

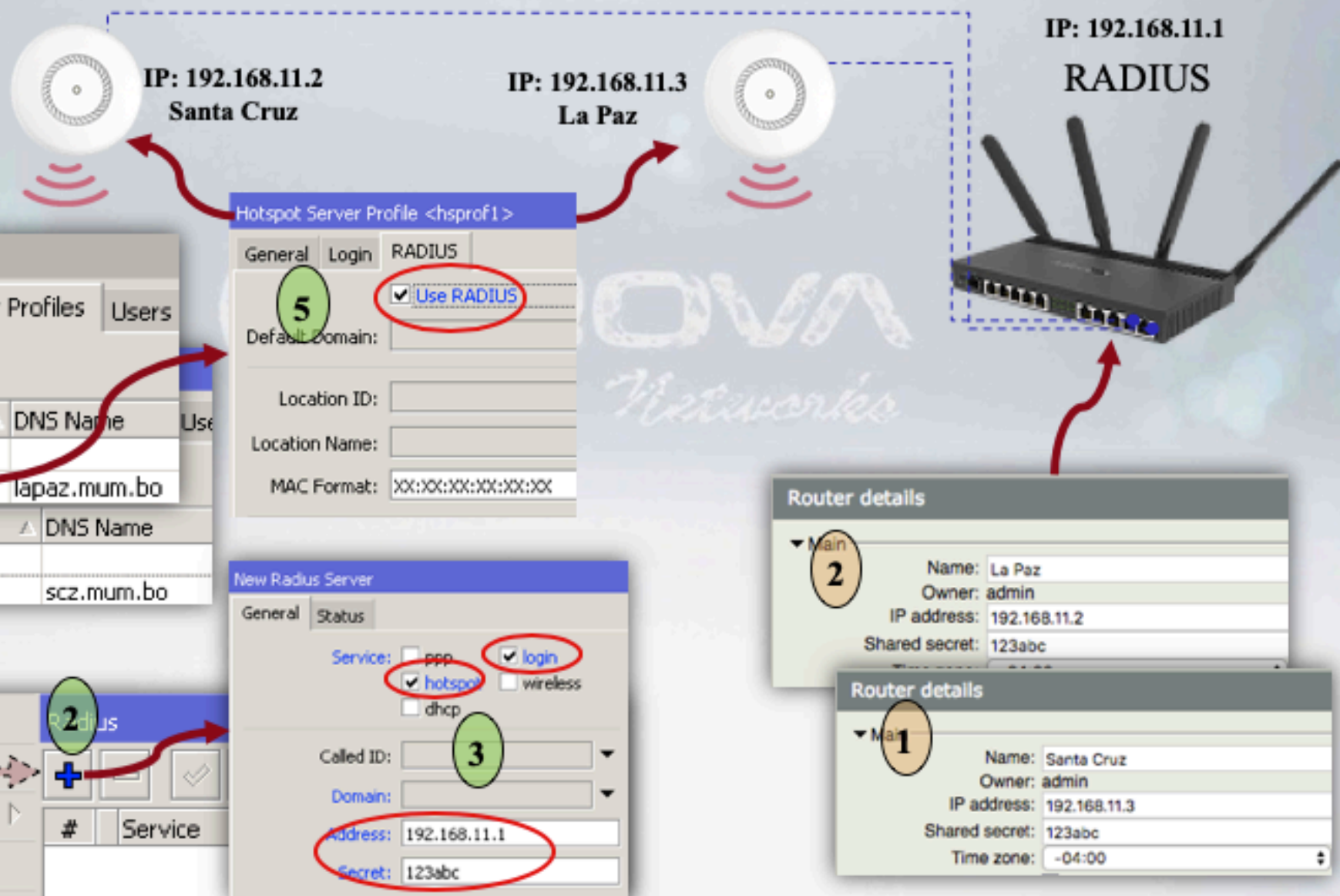
File Name	Type
skins	directory
user-manager-6.37.1-mipsbe.npk	package
autosupout.rif	.rif file
um-before-migration.tar	.tar file

71 items 20.5 MiB of 128.0 MiB used

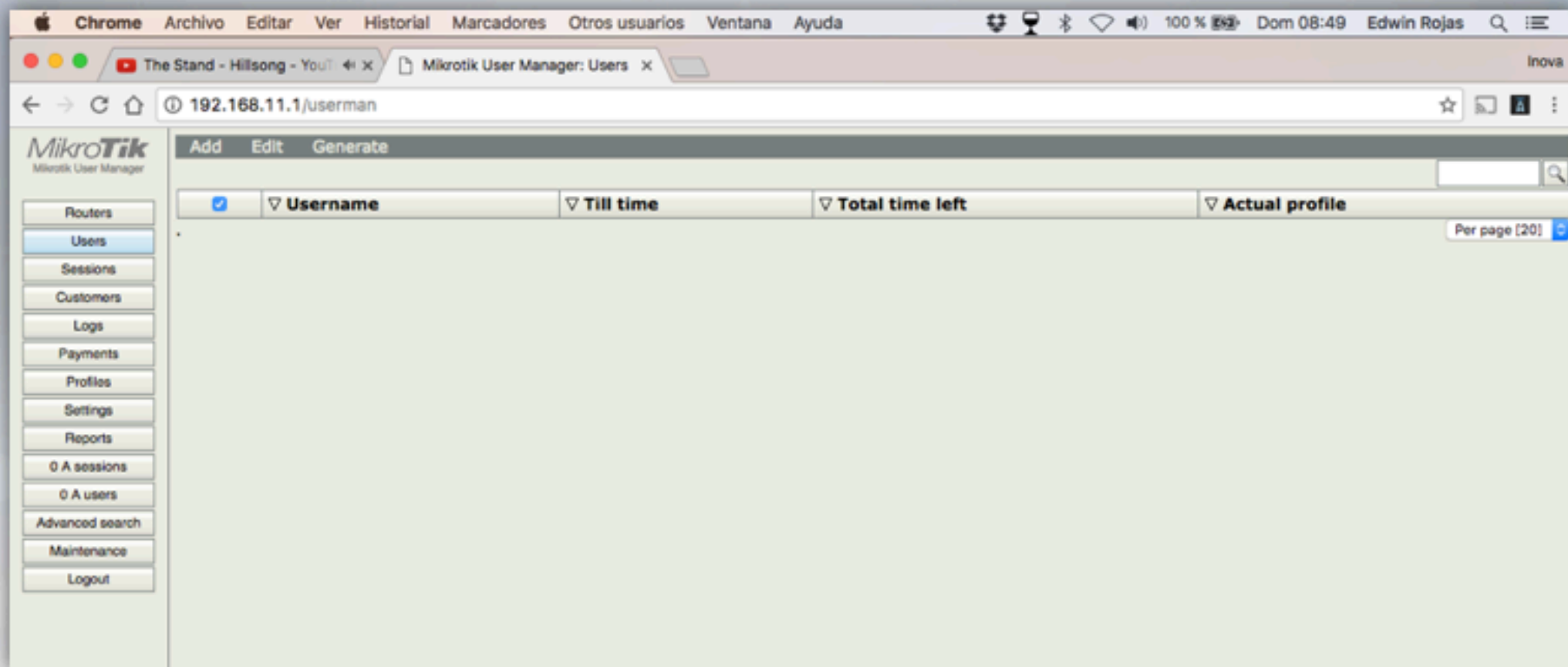
Name	Version	Build Time
routeros-arm	6.45.7	Oct/24/2019 08:44:35
advanced-...	6.45.7	Oct/24/2019 08:44:35
dhcp	6.45.7	Oct/24/2019 08:44:35
hotspot	6.45.7	Oct/24/2019 08:44:35
ipv6	6.45.7	Oct/24/2019 08:44:35
mpls	6.45.7	Oct/24/2019 08:44:35
ppp	6.45.7	Oct/24/2019 08:44:35
routing	6.45.7	Oct/24/2019 08:44:35
security	6.45.7	Oct/24/2019 08:44:35
system	6.45.7	Oct/24/2019 08:44:35
wireless	6.45.7	Oct/24/2019 08:44:35
user-manager	6.45.7	Oct/24/2019 08:44:35

```
[admin@MikroTik] >
[admin@MikroTik] > system reboot
```


Paso 4: Configuración Hotspot y User Manager

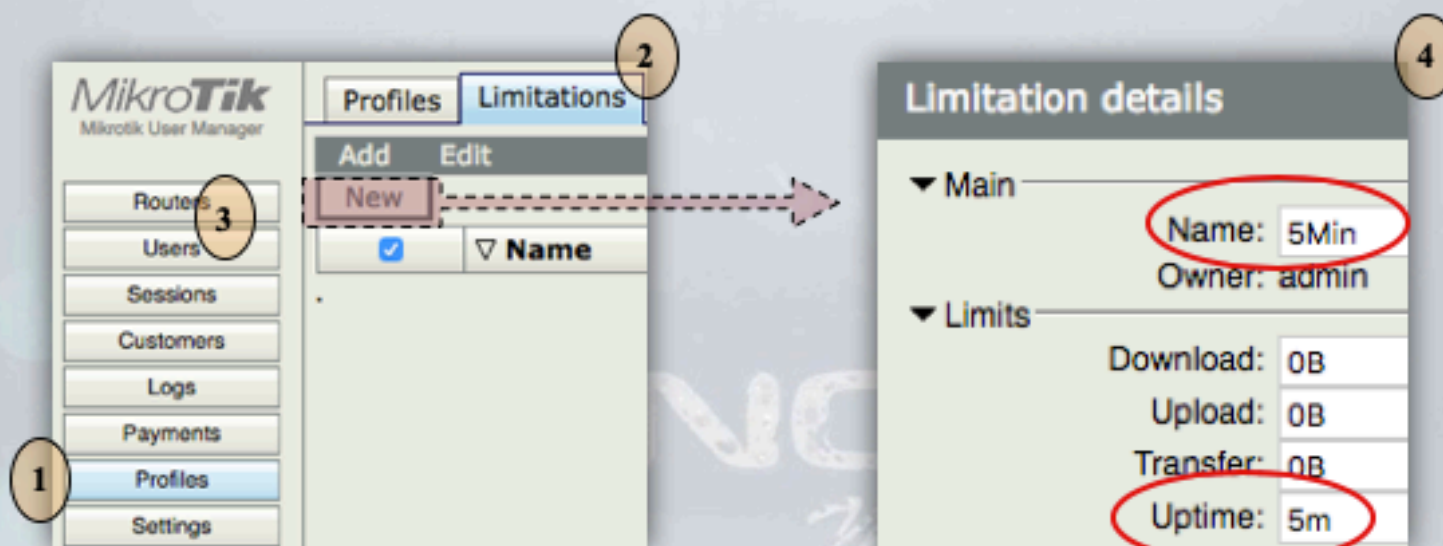


Paso 4: Mikrotik User Manger (Radius)



The screenshot shows a web browser window with the address bar displaying `192.168.11.1/userman`. The page title is "MikroTik User Manager". The interface includes a sidebar menu with options: Routers, Users, Sessions, Customers, Logs, Payments, Profiles, Settings, Reports, 0 A sessions, 0 A users, Advanced search, Maintenance, and Logout. The "Users" option is selected. The main content area has tabs for "Add", "Edit", and "Generate". Below the tabs is a table with the following columns: ☒, Username, Till time, Total time left, and Actual profile. The table is currently empty. A "Per page [20]" dropdown is visible in the bottom right corner of the table area.

Paso 4: Mikrotik User Manger (Radius) – Creación Perfil



1 Profiles

2 Limitations

3 Add New

4 Limitation details

Main

Name: 5Min

Owner: admin

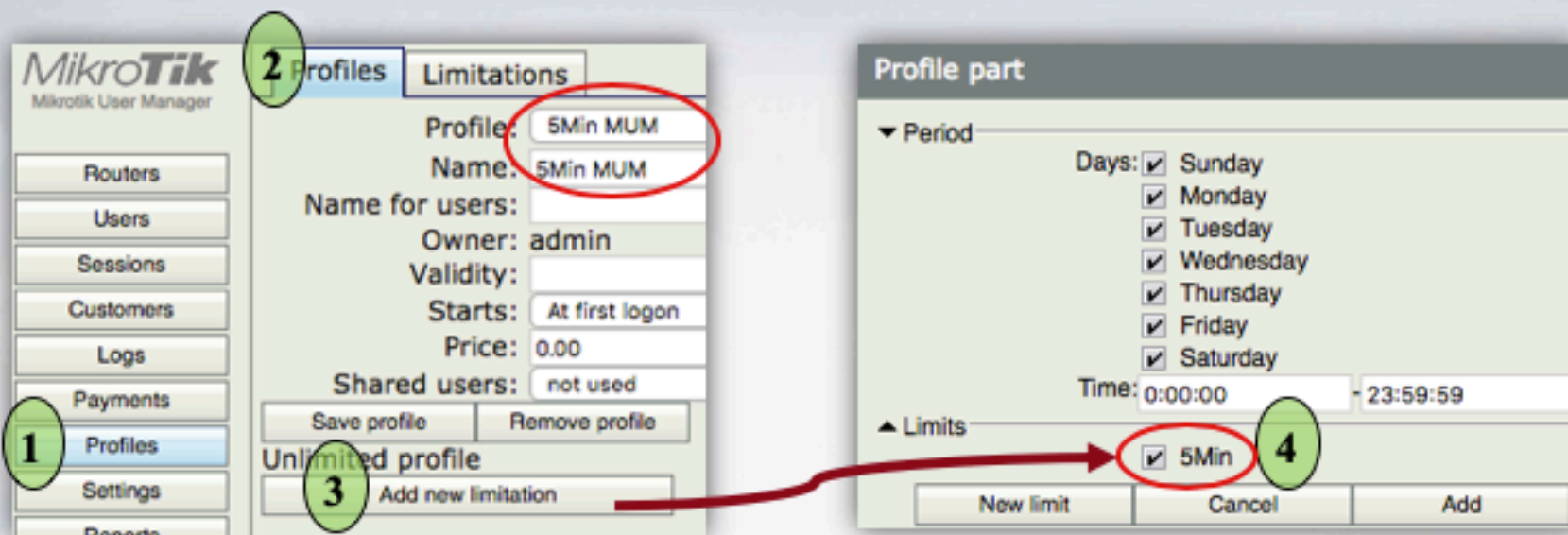
Limits

Download: 0B

Upload: 0B

Transfer: 0B

Uptime: 5m



1 Profiles

2 Limitations

Profile: 5Min MUM

Name: 5Min MUM

Name for users:

Owner: admin

Validity:

Starts: At first login

Price: 0.00

Shared users: not used

Save profile Remove profile

Unlimited profile

3 Add new limitation

4 Profile part

Period

Days: ☒ Sunday ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday

Time: 0:00:00 - 23:59:59

Limits

☒ 5Min

New limit Cancel Add

Paso 5: Mikrotik User Manger (Radius) – Creación Usuarios

MikroTik
Mikrotik User Manager

1 Users

2 Add One Batch Username

User details

3

Main

Username: vip

Password: vip

Disabled: ☐

Owner: admin

Constraints

IP address: 0.0.0.0

Caller ID: ☐ Bind on first use

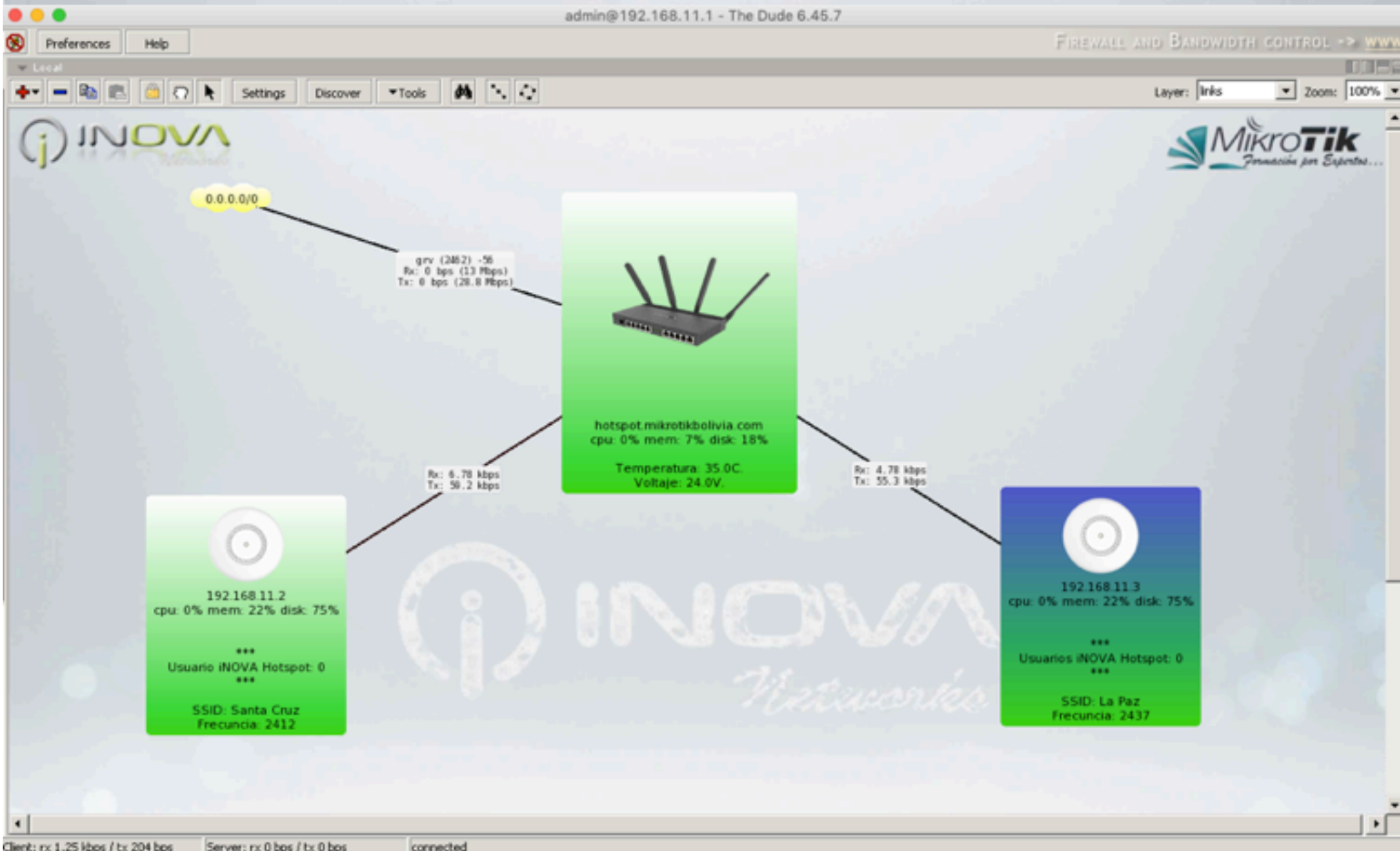
Shared users: 10

Wireless

Private information

Assign profile: **Vip**

Add



6 Ideas Generar Dinero.



Venta de Vaucher Impresos

Monederos Expendedores de Voucher



Impresoras Hotspot