



**TEMA: Si kemi ndertuar nje Internet Service Provider vetem me Mikrotik**

**How to build an ISP business with Mikrotik Only**

**STARNET SH.P.K**

**Wireless Internet Service Provider**

# Permbajtja:

- ▶ Kush eshte StarNet shpk?
- ▶ Profil I themeluesit, Dritan Vreshta.
- ▶ StarNet, si filloi gjithcka?
- ▶ Si u njohem me teknologjine MikroTik
- ▶ Rrjeti Aktual dhe Struktura
  - ▶ CPE
  - ▶ Paisjet ne kulla
  - ▶ Backbone dhe Core
- ▶ Konfigurime te pergjithshme te ISP
- ▶ Projekte te tjera bazuar mbi Mikrotik
- ▶ Trajnimet



# Kush eshte StarNet shpk?

- ▶ Themeluar: **Janar 2014**
- ▶ **17 Vjet** ne fushen e Telekomunikacionit
- ▶ **7 Vjet** ne sherbime Wireless
- ▶ AS Number: **60304**
- ▶ **20 Punonjes** ne **5 Qytete**
  - ▶ Tirane dhe rrethinat
  - ▶ Durres
  - ▶ Korce & Pogradec & Devoll
- ▶ Bashkepuntore:

**MikroTik**  
routerboard

**RF**  
ELEMENTS

**SPLYNX**

**HS** NETWORK  
MANAGER

**OPEN-SKY**  
INTERNET VIA SATELLITE



## Profil I themeluesit :

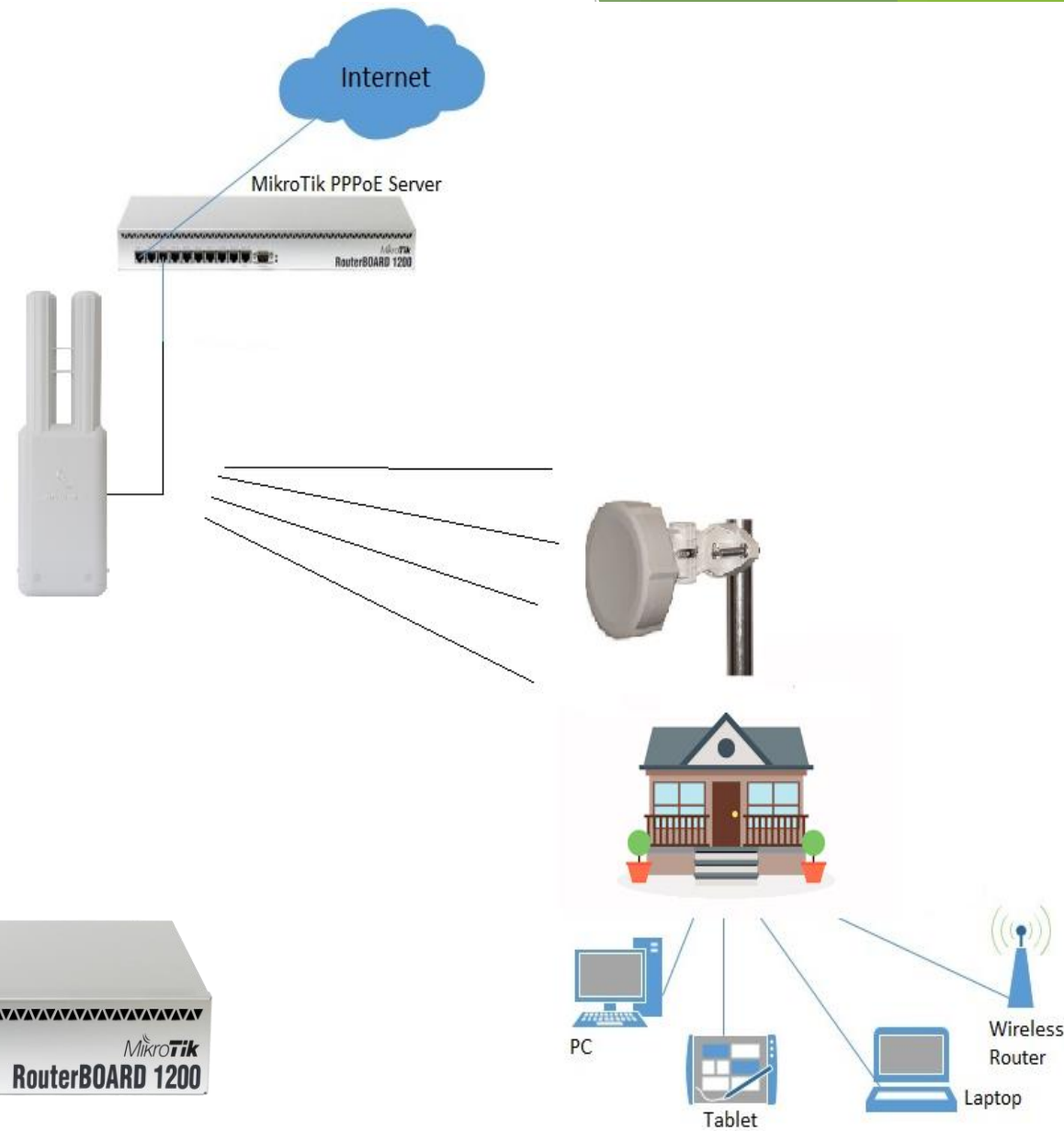


- ▶ Kam studiuar Fakulteti I Shkencave te Natyres
- ▶ Aktiv ne fushen e telekomunikacionit qe prej vitit 2000
- ▶ Themelues:
  - ▶ Starsat-International
  - ▶ Starnet ne 2014
- ▶ MikroTik Certified
  - ▶ MTCNA
  - ▶ MTCRE
  - ▶ MTCINE

## STARNET! Si filloi gjithcka?

- ▶ Analiza e situates ne vitin 2011
- ▶ Pse zgjodhem te punojme me Mikrotik?
- ▶ European MUM - Varshave 2012
- ▶ Fillimi me dy Routers RB 1200

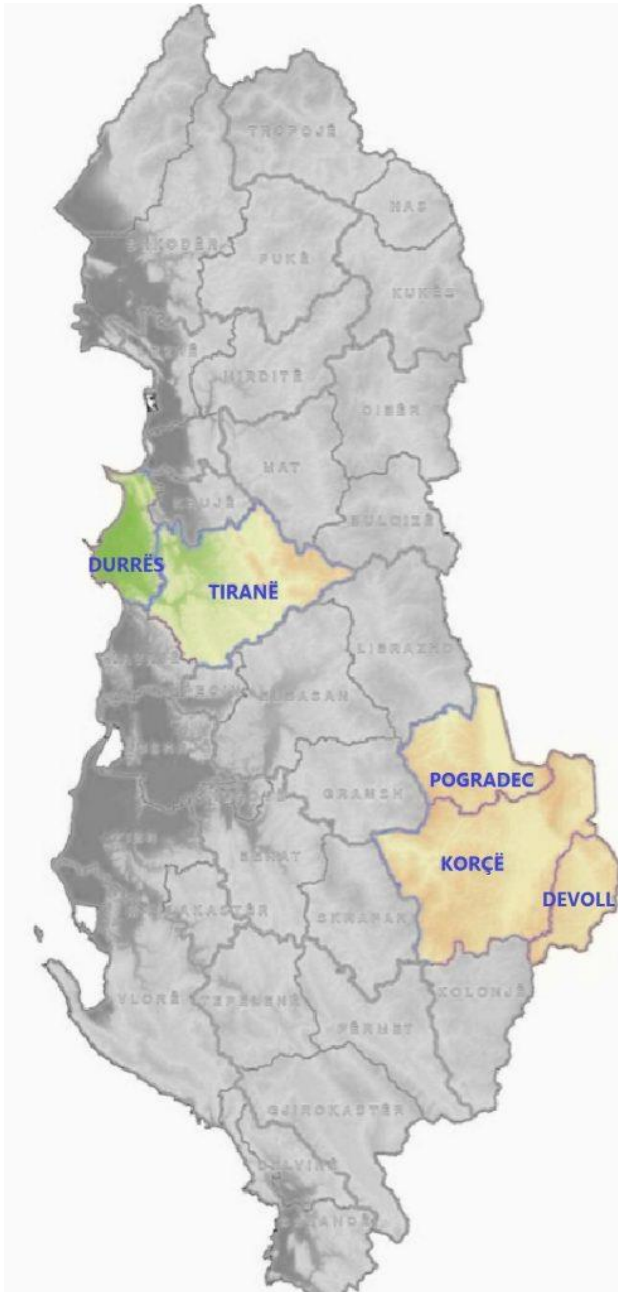
(te cilet jane akoma edhe sot funksionale dhe ne pune)



# Disa elemente te rendesishem:

- ▶ Idete e medha rrallehere mbeshteten finaciarisht.
- ▶ Filluam nga nje pike e dobet e situates aktuale (2011)
- ▶ Ne nje moment te caktuar duhet te fitonim dicka
- ▶ Te kemi nje TARGET preciz
- ▶ “Keep it simple” dhe optimizoni cdo gje

# WIRELESS COVERAGE - Tetor 2018



- ▶ 100% e rrjetit eshte bazuar mbi paisjet Mikrotik dhe ne total jane 4000-5000 paisje mikrotik ne rrjet
- ▶ 3000 paisje te konfiguruar si CPE (nga ana e klientit pa numeruar rruterat e brendshem
- ▶ 1000 paisje ne Kulla

# CPE

- ▶ Tipet e ndryshme qe perdorim dhe arsyet per cdo perdorim



- ▶ Konfigurimi baze
- ▶ Sygjerime dhe praktikat me te mira
- ▶ Monitorimi dhe scriptet



# Konfigu

AP Client <D4:CA:6D:AC:61:5B>

General 802.1x Signal Nstreme NV2

Last Activity: 0.000 s

Tx/Rx Signal Strength: -66/-62 dBm

Tx/Rx Signal Strength Ch0: -72/-68 dBm

Tx/Rx Signal Strength Ch1: -67/-63 dBm

Tx/Rx Signal Strength Ch2:

Signal To Noise: 50 dB

Tx/Rx CCQ: 51/82 %

P Throughput:

- Signal Strengths -

| Rate   | Strength | Last Me |
|--------|----------|---------|
| HT20-7 | -66      | 00:0    |
| 48Mbps | -65      | 00:0    |
| 54Mbps | -65      | 00:0    |
| 24Mbps | -64      | 05:9    |
| HT20-6 | -64      | 00:0    |
| 9Mbps  | -63      | 10:9    |
| 18Mbps | -63      | 09:0    |
| 36Mbps | -63      | 00:0    |
| HT20-0 | -63      | 10:4    |
| HT20-1 | -63      | 10:3    |
| HT20-2 | -63      | 04:9    |
| HT20-3 | -63      | 00:0    |
| HT20-4 | -63      | 00:0    |
| 6Mbps  | -62      | 0       |
| 12Mbps | -62      | 09:0    |
| HT20-5 | -62      | 0       |

Interface <wlan1>

General Wireless Data Rates Advanced HT HT MCS WDS ...

Mode: station

Band: 5GHz-A/N

Channel Width: 20MHz

Frequency: 5120

SSID: starwifi\_preze 2

Radio Name: Roland Vulka

Scan List: default

5100-5900

Wireless Protocol: any

Security Profile: default

Frequency Mode: superchannel

Country: no\_country\_set

Antenna Gain: 0

WMM Support: disabled

Station Roaming: enabled

Default Authent

Multicast Helper: default

Multicast Bufferin

Keepalive Frame

enabled running slave connected to e

Interface <wlan1>

Nstreme NV2 Tx Power Current Tx Power Advanced Status ...

Security

Preshared Key: st@rvo

OK

Cancel

Apply

Interface <pppoe-out1>

General Dial Out Status Traffic

Service: [dropdown]

AC Name: [dropdown]

User: rolandvulka

Password: rolandvulka

Profile: default

Keepalive Timeout: 10

Dial On Demand

Use Peer DNS

Add Default Route

Default Route Distance: 0

Allow:  mschap2  mschap1

chap  pap

OK

Cancel

Apply

Disable

Comment

Copy

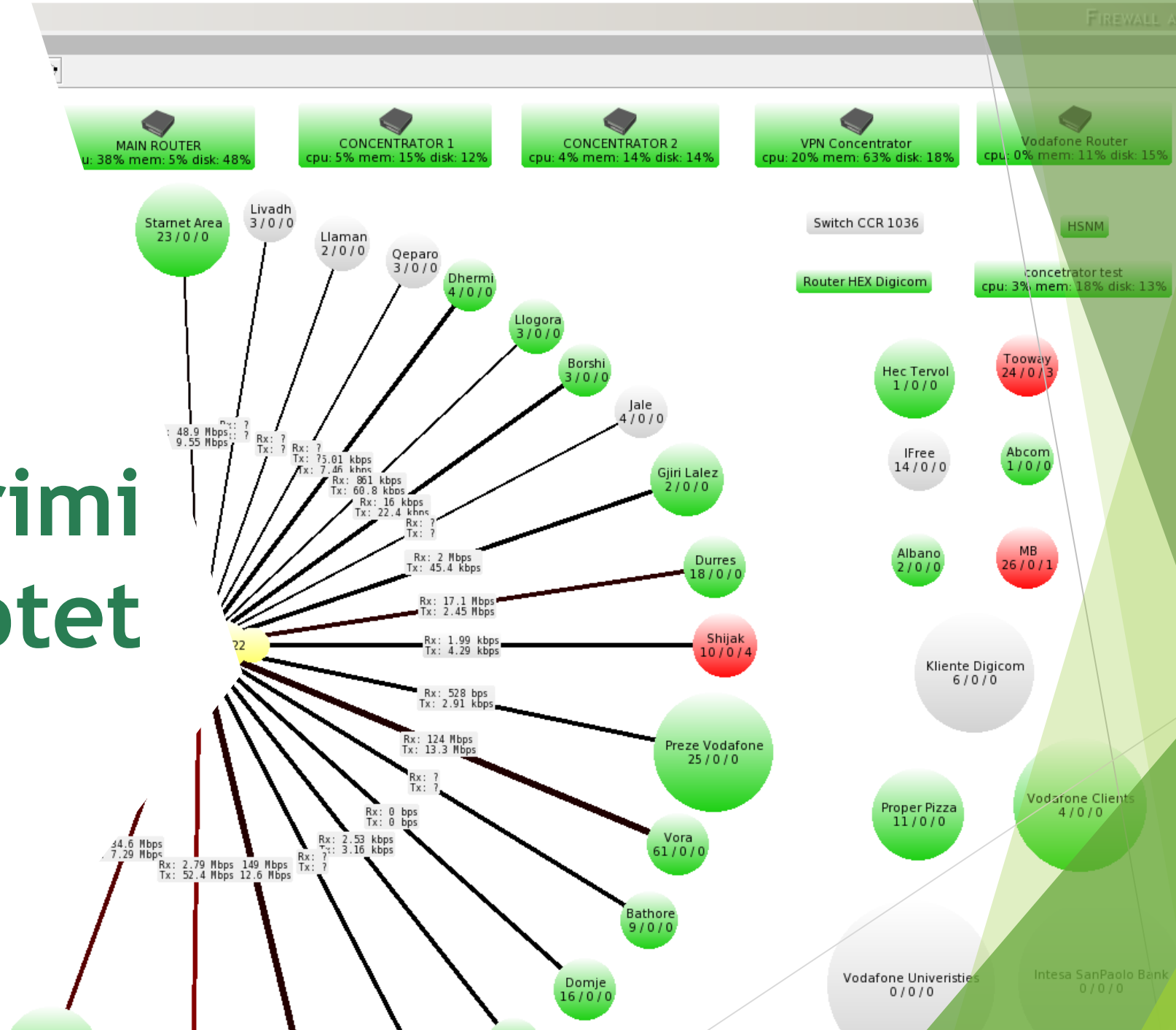
Remove

Torch

PPPoE Scan

enabled running slave Status: connected

# Monitorimi dhe scriptet



- Quick Set
- CAPsMAN
- Interfaces
- Wireless
- Bridge
- PPP
- Switch
- Mesh
- IP
- IPv6
- Routing
- System
- Queues
- Files
- Log
- Radius
- Tools
- New Terminal
- LCD
- Partition
- Make Supout.rtf
- Manual
- New WinBox

Interface List

Interface | Interface List | Ethernet | EoIP Tunnel | IP Tunnel | GRE Tunnel | VLAN | VRRP | Bonding | LTE

|    | Name                  | Type                 | Actual MTU | L2 MTU | Tx        | Rx          | Tx Packet (p/s) | Rx Packet (p/s) |
|----|-----------------------|----------------------|------------|--------|-----------|-------------|-----------------|-----------------|
|    | sfp1                  | Ethernet             | 1500       | 1600   |           | 0 bps       | 0 bps           | 0               |
| S  | ether10               | Ethernet             | 1500       | 1598   |           | 0 bps       | 0 bps           | 0               |
| S  | ether9                | Ethernet             | 1500       | 1598   |           | 0 bps       | 0 bps           | 0               |
|    | ::: Hink 2            |                      |            |        |           |             |                 |                 |
| RS | ether8                | Ethernet             | 1500       | 1598   | 904 bps   | 0 bps       | 1               | 0               |
|    | ::: Link Stropcke 2   |                      |            |        |           |             |                 |                 |
| RS | ether7                | Ethernet             | 1500       | 1598   | 9.1 Mbps  | 646.4 kbps  | 806             | 360             |
|    | ::: SXT Gurras        |                      |            |        |           |             |                 |                 |
| RS | ether6                | Ethernet             | 1500       | 1598   | 0 bps     | 0 bps       | 0               | 0               |
|    | ::: Hink 3            |                      |            |        |           |             |                 |                 |
| RS | ether5                | Ethernet             | 1500       | 1598   | 18.9 Mbps | 1679.5 kbps | 1 741           | 945             |
|    | ::: Sar Tushemisht    |                      |            |        |           |             |                 |                 |
| RS | ether4                | Ethernet             | 1500       | 1598   | 0 bps     | 0 bps       | 0               | 0               |
|    | ::: Hink 1            |                      |            |        |           |             |                 |                 |
| RS | ether3                | Ethernet             | 1500       | 1598   | 38.2 Mbps | 2.1 Mbps    | 3 504           | 1 684           |
| S  | ether2                | Ethernet             | 1500       | 1598   | 0 bps     | 0 bps       | 0               | 0               |
|    | ::: Hyrja DATA        |                      |            |        |           |             |                 |                 |
| R  | ether1                | Ethernet             | 1500       | 1598   | 4.7 Mbps  | 70.4 Mbps   | 3 023           | 6 487           |
| R  | PPPoE_Bridge          | Bridge               | 1500       | 1598   | 55.3 Mbps | 4.3 Mbps    | 5 138           | 3 035           |
| DR | pppoe-yllsondenvishaj | PPPoE Server Binding | 1480       |        |           | 0 bps       | 0 bps           | 0               |

92 items

# Paisjet ne kulla

- ▶ Qendrushmeria e paisjeve ne kulla
- ▶ Ruterat qe perdorim dhe eksperianca me e mire
- ▶ AP, konfigurimet dhe praktikat me te mira
- ▶ Menaxhimi i frekuencave dhe conformiteti i paisjeve mikrotik
- ▶ Shembull te rezultateve

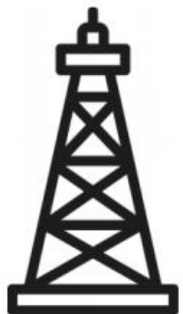


# INFRASTRUKTURA e RRJETIT



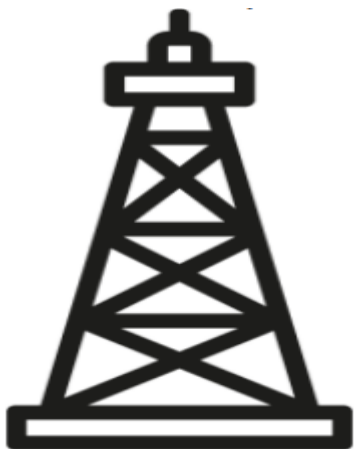
Routerboard Hex lite  
or similar 1xCPU

**Kulle e vogel**  
~40 kliente



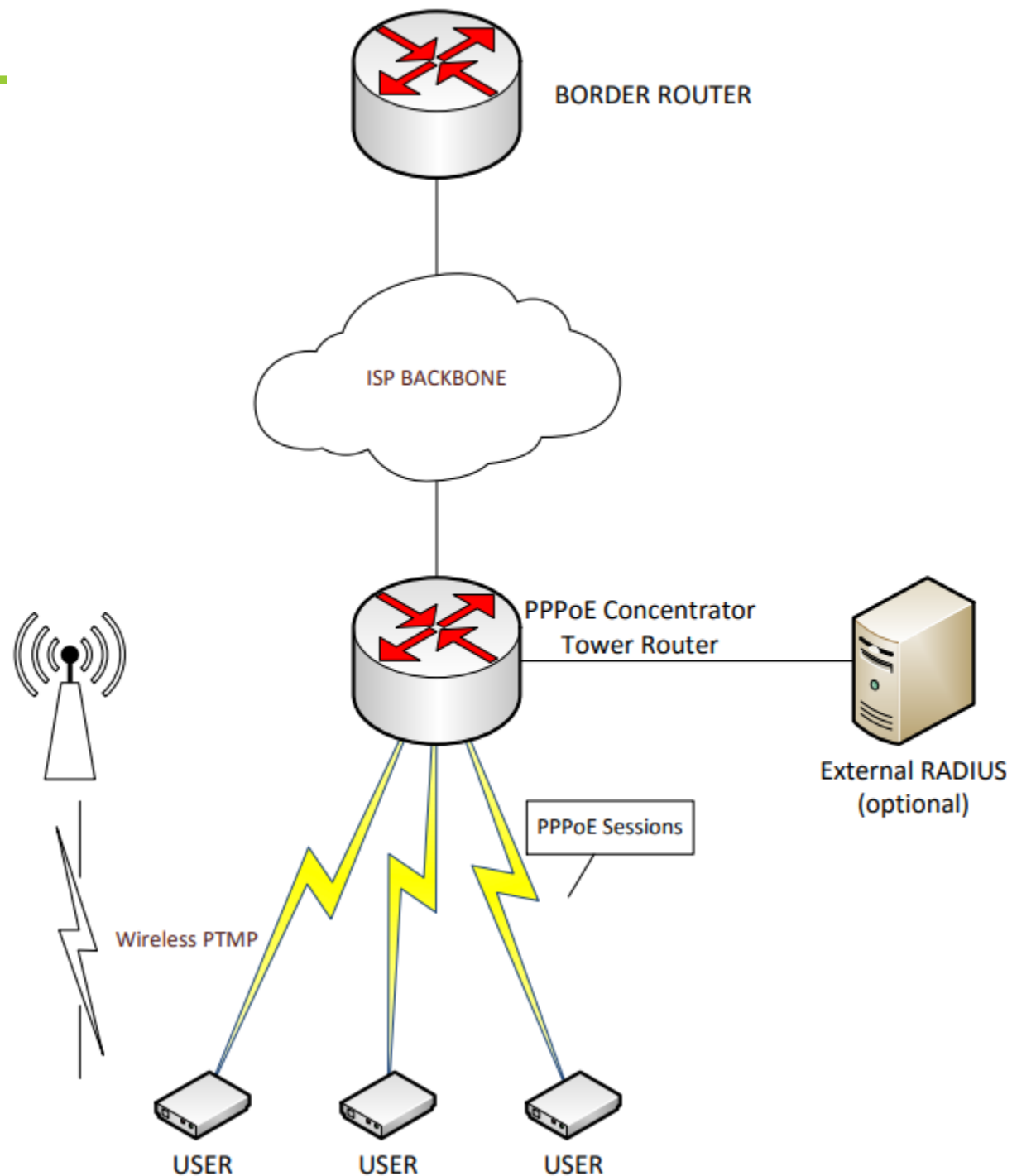
Routerboard Hex/RB3011

**Kulle e mesme**  
~100 kliente



RB1100AHx2; CCR1009

**Kulle e madhe**  
>100 kliente



# Backbone dhe Core

- ▶ SFP Mikrotik dhe rezultatet e deri tanishme
- ▶ Shembuj te nderfaqesimit ne situatat te ndryshme me operatoret te ndryshem dhe teknologji te ndryshme
- ▶ Rutimet e avancuara BGP (*aktualisht me 3 operatore dhe 1 exchange*)
- ▶ Shembuj te performances se Ruterave BGP
- ▶ Shembuj te performances se Switch Mikrotik

The screenshot shows the 'Interface List' window in Mikrotik WinBox. It displays a table of network interfaces with their names, types, and various performance metrics. The 'Tx' and 'Rx' columns show data rates in bps or Mbps, while 'Tx Packet (p/s)' and 'Rx Packet (p/s)' show the number of packets per second. 'FP Tx' and 'FP Rx' represent frames per second.

| Name                        | Type     | Tx          | Rx         | Tx Packet (p/s) | Rx Packet (p/s) | FP Tx       | FP Rx      | FP    |
|-----------------------------|----------|-------------|------------|-----------------|-----------------|-------------|------------|-------|
| LoopBack                    | Bridge   | 0 bps       | 0 bps      | 0               | 0               | 0 bps       | 0 bps      | 0 bps |
| ether1 -                    | Ethernet | 0 bps       | 0 bps      | 0               | 0               | 0 bps       | 0 bps      | 0 bps |
| sfp1 - MTX 1                | Ethernet | 53.6 Mbps   | 197.7 Mbps | 20 172          | 23 363          | 53.6 Mbps   | 197.7 Mbps | 0 bps |
| sfp2 - MTX 2                | Ethernet | 0 bps       | 16.3 Mbps  | 0               | 2 519           | 0 bps       | 16.3 Mbps  | 0 bps |
| sfp3 - GGC ABCOM 1          | Ethernet | 21.5 Mbps   | 596.0 Mbps | 21 011          | 53 537          | 21.5 Mbps   | 596.0 Mbps | 0 bps |
| sfp4 - CONC 2               | Ethernet | 314.1 Mbps  | 24.6 Mbps  | 30 315          | 14 978          | 314.1 Mbps  | 24.6 Mbps  | 0 bps |
| sfp5 - AT                   | Ethernet | 2.9 Mbps    | 26.4 Mbps  | 1 241           | 2 766           | 2.9 Mbps    | 26.4 Mbps  | 0 bps |
| vlan235_Menaxhim_AT_PROJECT | VLAN     | 4.1 kbps    | 4.1 kbps   | 1               | 1               | 0 bps       | 4.1 kbps   | 0 bps |
| vlan236-AT_Project          | VLAN     | 0 bps       | 0 bps      | 0               | 0               | 0 bps       | 0 bps      | 0 bps |
| vlan_ALBIX                  | VLAN     | 2.6 Mbps    | 5.9 Mbps   | 953             | 572             | 0 bps       | 5.9 Mbps   | 0 bps |
| vlan_AT_INTERNET            | VLAN     | 231.6 kbps  | 20.4 Mbps  | 287             | 2 195           | 0 bps       | 20.4 Mbps  | 0 bps |
| sfp6 - MAIN ROUTER          | Ethernet | 245.3 Mbps  | 27.6 Mbps  | 25 522          | 14 532          | 245.3 Mbps  | 27.6 Mbps  | 0 bps |
| sfp7 - CONC 1               | Ethernet | 280.2 Mbps  | 25.3 Mbps  | 29 450          | 16 076          | 280.2 Mbps  | 25.3 Mbps  | 0 bps |
| sfp8-SwitchOS               | Ethernet | 1276.0 kbps | 5.2 Mbps   | 1 509           | 1 497           | 1276.0 kbps | 5.2 Mbps   | 0 bps |
| vlan_CONC 1                 | VLAN     | 0 bps       | 0 bps      | 0               | 0               | 0 bps       | 0 bps      | 0 bps |
| vlan_CONC 2                 | VLAN     | 0 bps       | 0 bps      | 0               | 0               | 0 bps       | 0 bps      | 0 bps |
| vlan_Servers                | VLAN     | 0 bps       | 0 bps      | 0               | 0               | 0 bps       | 0 bps      | 0 bps |

- Quick Set
- Interfaces
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- Mesh
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- New Terminal
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- Make Supout.rif
- Manual
- New WinBox
- Exit

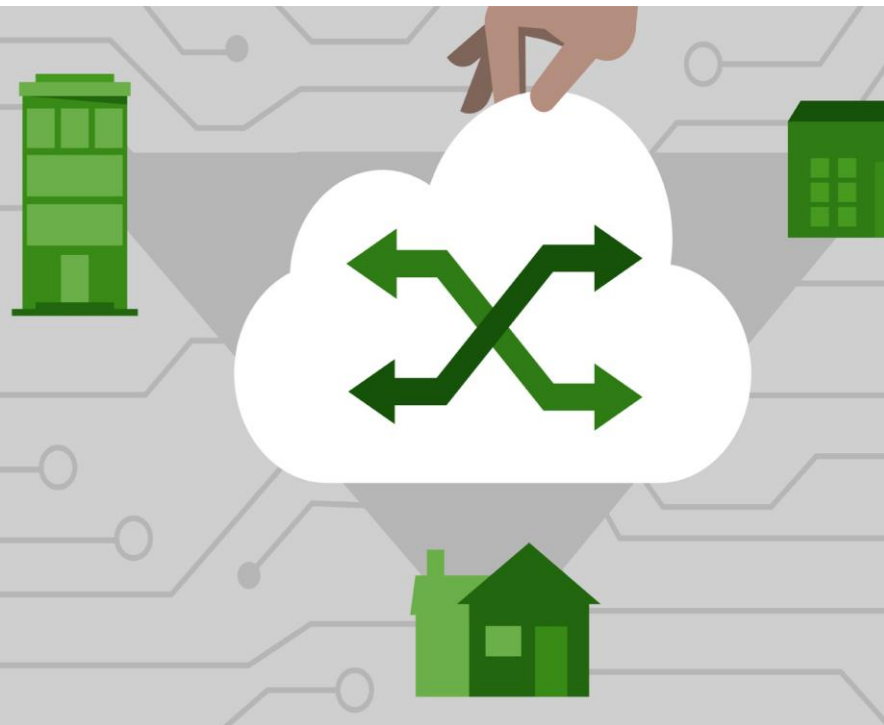
| Interface List   |                             |          |            |        |             |             |                 |                 |             |             |       |  |
|--|-----------------------------|----------|------------|--------|-------------|-------------|-----------------|-----------------|-------------|-------------|-------|--|
| Interface   Interface List   Ethernet   EoIP Tunnel   IP Tunnel   GRE Tunnel   VLAN   VRRP   Bonding   LTE |                             |          |            |        |             |             |                 |                 |             |             |       |  |
| + - [Icons] Detect Internet Find   |                             |          |            |        |             |             |                 |                 |             |             |       |  |
|  | Name                        | Type     | Actual MTU | L2 MTU | Tx          | Rx          | Tx Packet (p/s) | Rx Packet (p/s) | FP Tx       | FP Rx       | FP T  |  |
| R  | LoopBack                    | Bridge   | 1500       | 65535  | 0 bps       | 0 bps       | 0               | 0               | 0 bps       | 0 bps       | 0 bps |  |
|  | ether1 -                    | Ethernet | 1500       | 1600   | 0 bps       | 0 bps       | 0               | 0               | 0 bps       | 0 bps       | 0 bps |  |
| R  | sfp1 - MTX 1                | Ethernet | 1500       | 1580   | 49.2 Mbps   | 159.5 Mbps  | 18 393          | 19 660          | 49.2 Mbps   | 159.5 Mbps  | 0 bps |  |
| R  | sfp2 - MTX 2                | Ethernet | 1500       | 1580   | 0 bps       | 28.0 Mbps   | 0               | 3 676           | 0 bps       | 28.0 Mbps   | 0 bps |  |
| R  | sfp3 - GGC ABCOM 1          | Ethernet | 1500       | 1580   | 23.0 Mbps   | 765.9 Mbps  | 28 617          | 67 926          | 23.0 Mbps   | 765.9 Mbps  | 0 bps |  |
| R  | sfp4 - CONC 2               | Ethernet | 1500       | 1580   | 336.5 Mbps  | 31.6 Mbps   | 32 602          | 17 307          | 336.5 Mbps  | 31.6 Mbps   | 0 bps |  |
| R  | sfp5 - AT                   | Ethernet | 1500       | 1580   | 4.2 Mbps    | 21.9 Mbps   | 979             | 2 317           | 4.2 Mbps    | 21.9 Mbps   | 0 bps |  |
| R  | vlan235_Menaxhim_AT_PROJECT | VLAN     | 1500       | 1576   | 4.8 kbps    | 5.0 kbps    | 2               | 2               | 0 bps       | 5.0 kbps    | 0 bps |  |
| R  | vlan236-AT_Project          | VLAN     | 1500       | 1576   | 0 bps       | 0 bps       | 0               | 0               | 0 bps       | 0 bps       | 0 bps |  |
| R  | vlan_ALBIX                  | VLAN     | 1500       | 1576   | 4.1 Mbps    | 5.7 Mbps    | 805             | 570             | 0 bps       | 5.7 Mbps    | 0 bps |  |
| R  | vlan_AT_INTERNET            | VLAN     | 1500       | 1576   | 117.5 kbps  | 16.5 Mbps   | 190             | 1 781           | 0 bps       | 16.5 Mbps   | 0 bps |  |
| R  | sfp6 - MAIN ROUTER          | Ethernet | 1500       | 1580   | 278.9 Mbps  | 27.1 Mbps   | 28 836          | 17 487          | 278.9 Mbps  | 27.1 Mbps   | 0 bps |  |
| R  | sfp7 - CONC 1               | Ethernet | 1500       | 1580   | 365.1 Mbps  | 22.8 Mbps   | 36 323          | 17 516          | 365.1 Mbps  | 22.8 Mbps   | 0 bps |  |
| R  | sfp8-SwitchOS               | Ethernet | 1500       | 1580   | 1224.3 kbps | 1092.2 kbps | 1 304           | 1 144           | 1224.3 kbps | 1092.2 kbps | 0 bps |  |
| X  | vlan_CONC 1                 | VLAN     |            |        | 0 bps       | 0 bps       | 0               | 0               | 0 bps       | 0 bps       | 0 bps |  |
| X  | vlan_CONC 2                 | VLAN     |            |        | 0 bps       | 0 bps       | 0               | 0               | 0 bps       | 0 bps       | 0 bps |  |
| X  | vlan_Servers                | VLAN     |            |        | 0 bps       | 0 bps       | 0               | 0               | 0 bps       | 0 bps       | 0 bps |  |

# Konfigurime te pergjithshme te ISP

- ▶ Rutimet e pergjithshme
- ▶ Pse konfigurimet PPPoE ?
- ▶ Billing, authentication dhe API

## ▶ Pse PPPoE?

- pppoe eshte nje protokoll “point-to-point” mbi ethernet, qe mund te lidhe nje host me nje koncentrator te larget perms nje “Ethernet bridge” te theshte.
- PPPoE eshte jo vetem nje karakteristike e Ethernet por eshte gjithashtu nje tunel shume I mire I familjes PPP
- PPPoE kontrollon ne menyre te thjeshte nese useri eshte offline nepermjet stabilizimit te sesionit PPP dhe lejon kalimin e trafikut bazuar ne informacione statistikore ose billing.
- PPPoE ofron nje alokim dinamit te adresave IP. Perdoruesit nuk kane nevojte per konfigurime te nderlikuara dhe mirembajtja e rrjetit eshte e thjeshte.
- PPP perfshin nje hap autentifikimi para vendosjes sesionit. Me PPPoE, klientit I nevojitet nje “username” dhe “password” ne menyre qe te lidhet me paisjen tuaj. Askush nuk mund te logohet ne rrjet nese ne nuk e lejojme.





# BILLING - SPLYNX

**star**net  
ONLINE. ALWAYS. EVERYWHERE

Filter...

Dashboard

Welcome, Elisa Cuko!

| Metric              | Value |
|---------------------|-------|
| Online customers!   | 2537  |
| New Customers!      | 0     |
| New & Open tickets! | 0     |
| Devices down!       | 3     |

**System status**

|           |   |
|-----------|---|
| CPU Cores | 8 |
|-----------|---|

**Customers**

|                 |      |
|-----------------|------|
| Customers total | 2944 |
|-----------------|------|

Navigation menu:

- Dashboard
- Tariff plans
- Customers
- Finance
- Inventory
- Networking
- Support
- Voice
- Administration

Top right navigation: ? [Home] [Search] [Refresh] [Logout] elisacuko

Usage by days

4.0GB

Up Down

Customers / View / genibezati (genibezati - 121)

Information

Services

Billing

Statistics

Documents

CPE

Title sxt

IP/Host 172.16.148.247

Login (API) [Redacted]

Password (API) Show

Port (API) 8728

Type MikroTik

QoS / Shaping

QoS Target 192.168.88.0/24

Service 10/5\_ [Redacted]\_Standard ()

Signal Strength  -38 dBm

Log

Save



# Projekte te tjera bazuar mbi Mikrotik

- ▶ Hotspot Networks project based and customer
- ▶ Shembuj konfigurimesh
- ▶ VPN concentrators per rrjetat satelitore
- ▶ Integrimi me operatore te tjere telekomunikacioni
- ▶ Integrimi i Mikrotik ne meshimin e rrjetave te Fibrave Optike



Vodafone WiFi

## Internet i shpejtë dhe i sigurtë

Dergo **SMS falas** me tekst **WiFi** tek **50222** dhe vendos numrin e telefonit dhe fjalëkalimin që do të merrni përkatësisht me poshtë.

Power to you

### Identifikohu

Numri i telefonit (003556xxxxxxx)

admin

Duke dërguar SMS më sipër ju bini dakort me kushtet dhe afatet e Vodafone WiFi.

Fjalëkalimi [Harruat fjalëkalimin?](#)

.....

Pranoj [Termet dhe Kushtet](#)

Lidhu

Klient jo Vodafone?  
Identifikohu me Facebook



## Internet i shpejtë dhe i sigurtë

Dergo **SMS falas** me tekst **WiFi** tek **50222** dhe vendos numrin e telefonit dhe fjalëkalimin që do të merrni përkatësisht me poshtë.  
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Duke dërguar SMS më sipër ju bini dakort me kushtet dhe afatet e Vodafone WiFi.

Fjalëkalimi [Harruat fjalëkalimin?](#)

.....

Pranoj [Termet dhe Kushtet](#)

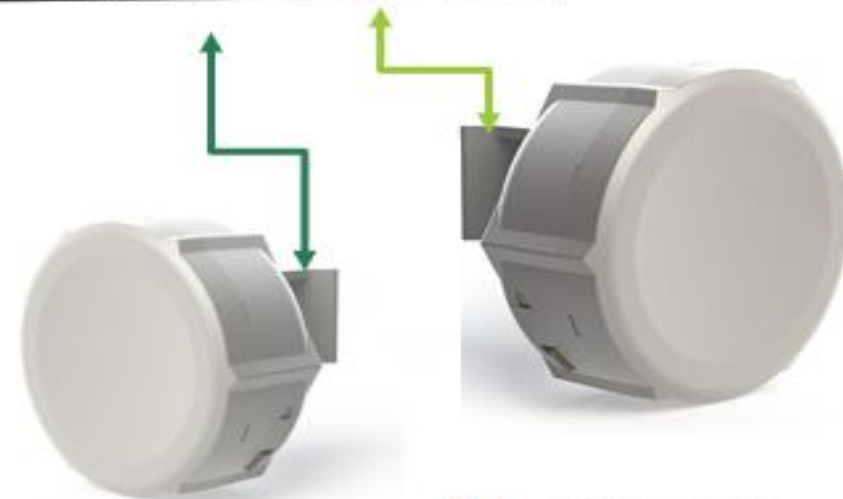
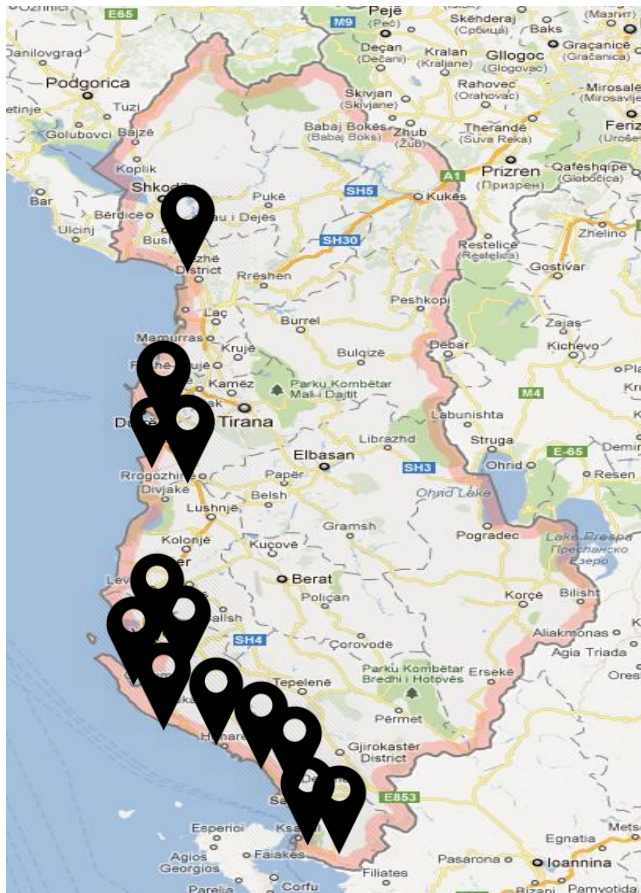
Lidhu

Klient jo Vodafone?  
Identifikohu me Facebook



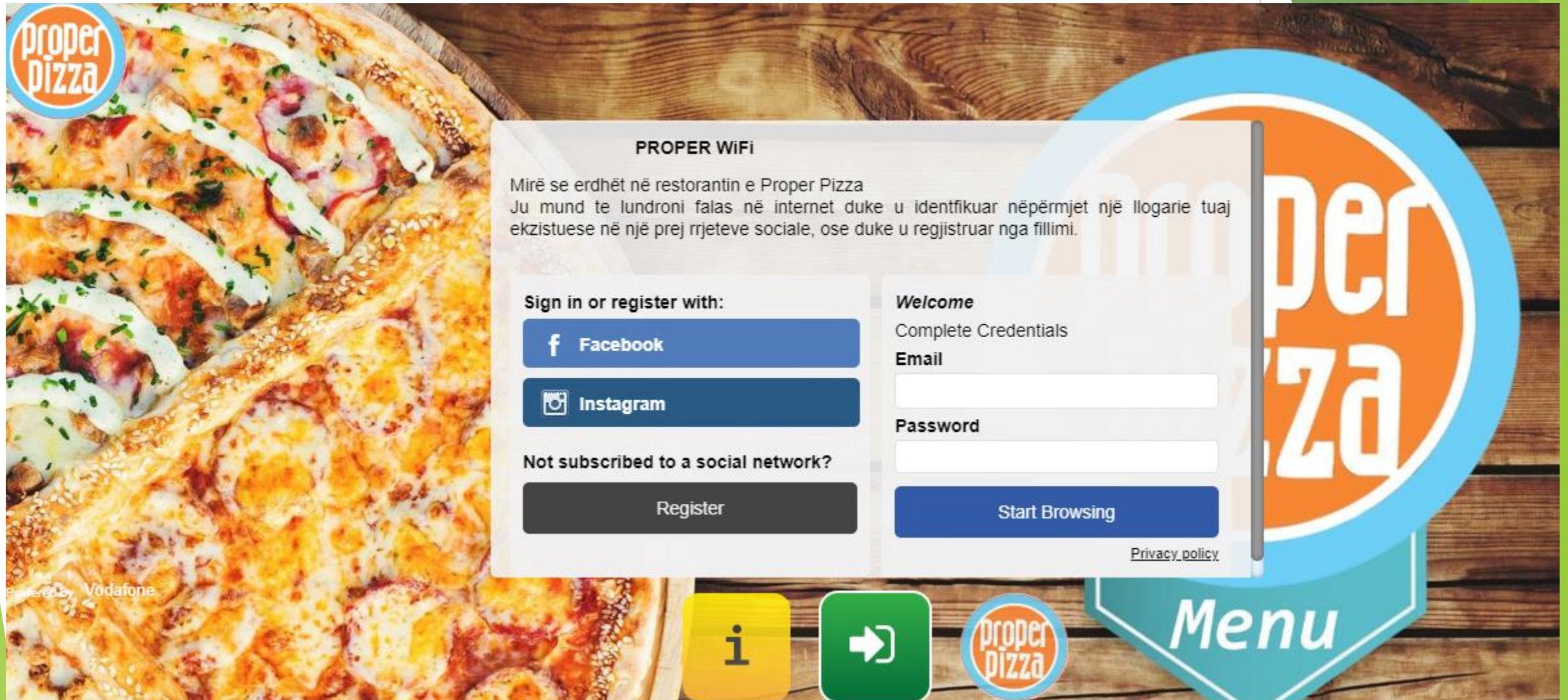
Vodafone Summer Wi-Fi

- Routerboard RB850Gx2



**AP: SXT 2.4 GHz**

# Kliente te zakonshem: Proper Pizza





**proper pizza**

**PROPER WiFi**

Mirë se erdhët në restorantin e Proper Pizza  
Ju mund të lundroni falas në internet duke u identifikuar nëpërmjet një llogarie tuaj ekzistuese në një prej rrjeteve sociale, ose duke u regjistruar nga fillimi.

**Sign in or register with:**

 **Facebook**

 **Instagram**

**Not subscribed to a social network?**

**Register**

**Welcome**  
Complete Credentials

**Email**

**Password**

**Start Browsing**

[Privacy\\_policy](#)

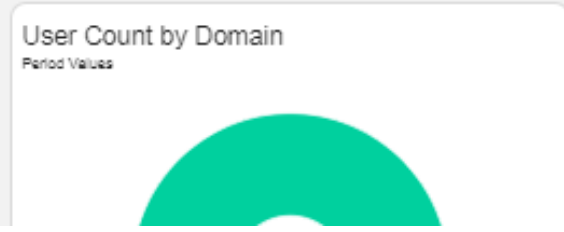
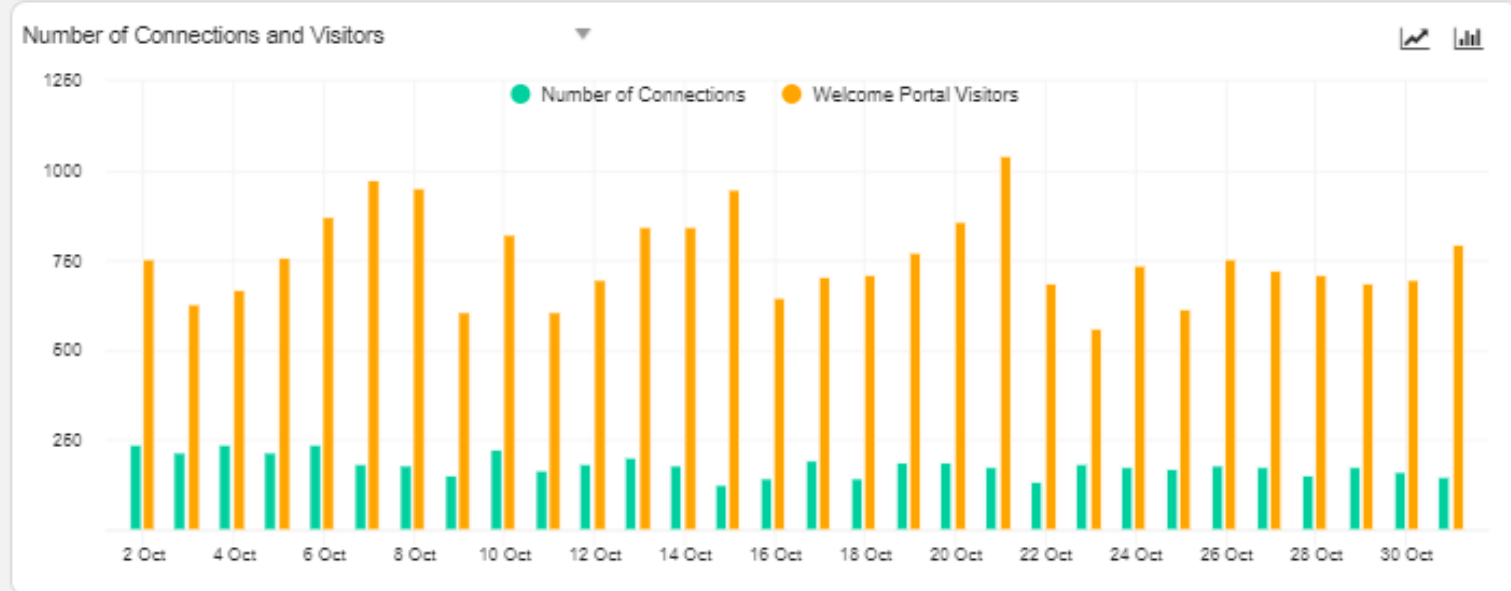
**Menu**

**i** **➔** **proper pizza**

Powered by Vodafone



|  |   |  |  |   |  |   |  |
|--|---|--|--|---|--|---|--|
| <b>Connections</b><br>Period Values<br><b>5 457</b><br>-35.44% | <b>Traffic</b><br>Period Values<br><b>590.6 GB</b><br>-23.47% | <b>New Users</b><br>Period Values<br><b>1 282</b><br>-44.72% | <b>Clicks</b><br>Period Values<br><b>0</b><br>---% | <b>Impressions</b><br>Period Values<br><b>0</b><br>---% | <b>CTR</b><br>Period Values<br><b>---%</b><br>---% | <b>GW Sold</b><br>Period Values<br><b>0</b><br>---% | <b>Adv sold</b><br>Period Values<br><b>Lek 0</b><br>---% |
|--|---|--|--|---|--|---|--|



**Context data**  
Total Values (Discounted Amounts)

|                               |         |
|-------------------------------|---------|
| Number of Registered Gateways | 1       |
| Number of Registered Users    | 33 551  |
| Number of Activated Users     | 1       |
| Total Number of Connections   | 109 977 |

**Top Domain Connections**  
Period Values

|             |       |
|-------------|-------|
| ProperPizza | 5 457 |
|-------------|-------|

**Top User Traffic**  
Period Values

|                                 |          |
|---------------------------------|----------|
| ervintafa7@yahoo.it@ProperPizza | 25.9 GB  |
| Arsensokoli111@gmail.com@Proper | 20.84 GB |
| QMX4WS@ProperPizza              | 17.1 GB  |
| ZPY4TV@ProperPizza              | 15.63 GB |

Gateway: hAP Lite ac



AP: 1 ose 2 WAP AC





# Trajnimet

15 Kolege  
te trajnuar

Perfitimet e  
stafit nga  
Trajnimit

Perfitimet e  
Starnet nga  
trajnimet

# Perfundime:

- Krahasimi i biznesit te ISP me garen dhe roli i mikrotik ne kete gare
- Cdo projekt eshte nje maratone
- Duhet veshjet e duhura qe jane paisjet e duhura
- Duhet stervitja qe jane Trajnimet
- Duhet edhe nje grup shokesh qe do mbeshtesin sfiden tende
- Mikrotik eshte skuadra qe do iu mbeshtese ne cdo projekt tuajin



# Faleminderit!!

