

TE PUNOSH ME
MIKROTIK

IMPLEMENTIMI
I SIGURISE

Do te flasim per

Hapat baze te punes me MikroTik

Cfare eshte MikroTik RouterOS, RouterBoard, si lidhemi me ta, pamja e jashtme, resurset, zgjedhja e ruterbordit specifik per detyra specifike, upgrade, konfigurimi, monitorimi, CLI, etj

Implementimi I sigurise ne rutera

Implementimi I sigurise eshte nje nga proceset kyce te ndertimit te nje rrjeti kompjuterik. Meqenese nje ruter eshte porta hyrese per nje rrjet, atehere vete ruteri duhet te konfigurohet ne menyra te tilla qe te jete sa me I mbrojtur. Nje sulm nga jashte dhe marja eventuale ne kontroll e ruterit, I siguron sulmuesit edhe kontrollin ndaj rrjetit.



TUNGJATJETA!

Quhem: Erion Demiri

Email:

edemiri@ens-al.com

- ▶ 1999 – Pergjegjes per rrjetet LAN, Infosoft.
- ▶ 2001 – IBM Netfinity Servers
- ▶ 2001 – Omega Networking and Service
- ▶ 2006 – ENS, Easy Network Solutions
- ▶ 2007 – MUM Egypt, MTCNA
- ▶ 2011 – MUM Budapest, MTCRE

- ▶ Rrjeta kompjuterike te permasave te ndryshme
- ▶ Zgjidhje per sigurine, mbrojtje antivirale
- ▶ Rrjeta wireless te permasave te medha
- ▶ Sisteme survejimi IP.
- ▶ Sisteme VPN.
- ▶ Etj...

WIFI



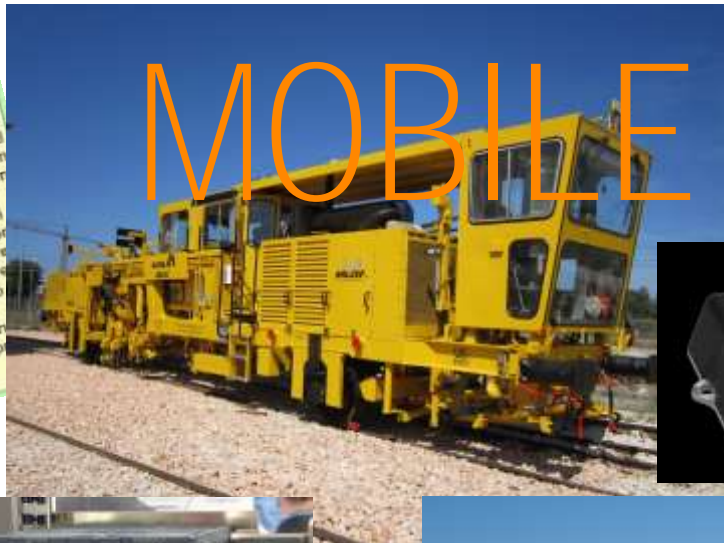
MOBILE VPN

15 ottobre 2004
Locomotore senza guida per 100 Km. Due inchieste.
 Sembrava la scena di un film, ma era tutto reale. Un locomotore senza guida, ad una velocità media di oltre cento chilometri orari ma con punte di circa 100 km/h in alcuni punti in leggera pendenza) ha percorso 70 chilometri prima di finire la sua corsa in un binario morto nella piccola stazione di Rutino, in provincia di Salerno...

Tutto ha inizio dopo le 7 di stamattina, quando Franco Siciliano, 48 anni, di Paola (Cosenza), macchinista dipendente di una ditta campana che si occupa della manutenzione di convogli ferroviari, la "Ventura", in servizio alla stazione di Longobardi (Cs), probabilmente in seguito ad un malore cade dalla motrice, forse azione la leva di partenza, tenta di risalire a bordo del mezzo e trasportato in locomotore comincia lentamente la sua corsa, mentre Siciliano viene soccorso e trasportato in ospedale a Paola, dove viene ricoverato, con una prognosi di 15 giorni, per trauma cranico, contusioni ed escorrazioni in diverse parti del corpo.

Scattato l'allarme, la società Rfi ha azionato il sistema di emergenza, bloccando o deviando i treni e percorrenza sul tragitto del locomotore, che lentamente prende velocità, per controllare la situazione nella stazione di Marina di Maratea, in Basilicata, viene effettuato un primo tentativo di fermare la corsa del mezzo, ma fallisce. Tutto, quindi, si sposta a Rutino, dove si prevede di sfruttare il binario morto in salita, per rallentare il locomotore. Così avviene, con il deragliament del mezzo di quello che per alcune ore e' stato un vero e proprio incubo.

Il C... della società Rfi e l'altra della procura della Repubblica di Paola.



OmniTIK5

3G TIM Usb Key

SIEMENS PLC

1.

MikroTik - RouterOS

Pse MikroTik?

“

MikroTik RouterOS eshte nje sistem operativ i dizenuar per rutera, i bazuar ne Linux, me nje game te gjere funksionesh, qe i japin nje inxhinieri rrjetesh, mundesi per konfigurime nga me te ndryshmet.

”

Versionet

- ▶ Versioni i pare i leshuar ne 1997
- ▶ RouterBoard i pare ne 2002
- ▶ Vers.2.7 dhe 2.9.27
- ▶ 3.0 (Janar 2008)
- ▶ 4.0 (Tetor 2009)
- ▶ 5.0 (Maj 2010)
- ▶ 6.0 (Maj 2013)
- ▶ Vers aktual: 6.43.4 (17 Tet 2018)

Versionet

https://mikrotik.com/download



Search
























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Software

Downloads Changelogs Download archive RouterOS The Dude

RouterOS



	6.42.9 (Long-term)	6.43.4 (Stable)	6.44beta20 (Testing)
MIPSBE	CRS1xx, CRS2xx, DISC, hAP, hAP ac, hAP ac lite, LDF, LHG, mANTBox, mAP, NetBox, NetMetal, PowerBox, QRT, RB9xx, cAP, hEX Lite, RB4xx, wAP, BaseBox, DynaDish, RB2011, SXT, OmniTik, Groove, Metal, Sextant, RB7xx		
Main package			
Extra packages			
SMIPS	hAP mini, hAP lite		
Main package			
Extra packages			
TILE	CCR		
Main package			
Extra packages			
The Dude server			

- ▶ **MIPS (MIPSBE, SMIPS, MIPSLE, MMIPS)**
MIPSBE: RS1xx, CRS2xx, DISC, hAP, hAP ac, hAP ac lite, LDF, LHG, OmniTik, etj
SMIPS: hAP mini, hAP lite
MMIPS: hEX (RB750Gr3), RBMxx
- ▶ **TILE – seria CCR**
- ▶ **PPC**
RB3xx, RB600, RB8xx, RB1100AHx2, RB1100AH, RB1100, RB1200
- ▶ **ARM**
cAP ac, hAP ac², LDF ac, LHG ac, SXTsq (ac series), Wireless Wire, CRS3xx, RB3011, RB1100AHx4, RB450Gx4
- ▶ **X86**

- ▶ X86 Pentium III Router



CHR

- ▶ VMWare ESX
- ▶ Hyper-V
- ▶ Qemu/KVM
- ▶ Xen
- ▶ VirtualBox

2.

Hapat e pare

Kutia e cudirave

hAP Mini – RB931-2nd

SMIPS, 650 MHz, 3 Ethernet, 32 MB Ram, 16 MB Flash, Dual Chain 802.11b/g/n.

	1518 byte		64 byte	
	kpps	Mbps	kpps	Mbps
Routing 25 simple queue	24.4	296.3	151.6	77.6



- ▶ Winbox
- ▶ SSH
- ▶ Telnet
- ▶ Serial
- ▶ API
- ▶ FTP
- ▶ WWW

Menyrat e lidhjes

	Name	Port	Available From	Certificate
	api	8728		
	api-ssl	8729		none
	ftp	21		
	ssh	22		
	telnet	23		
	winbox	8291		
	www	80		
X	www-ssl	443		none

8 items

MikroTik

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Software

[Downloads](#) [Changelogs](#) [Download archive](#) [RouterOS](#) [The](#)

Upgrading RouterOS

If you are already running RouterOS, upgrading to the latest version can be done by clicking on **"Check For Updates"** in **QuickSet** or **System > Packages** menu in WebFig or WinBox.

See the [documentation](#) for more information about upgrading and release types.

To manage your router, use the web interface, or download the maintenance utilities. Winbox to connect to your device, Dude to monitor your network and Netinstall for recovery and re-installation.

WinBox ▾

The Dude ▾

Netinstall ▾

WinBox 3.18



Winbox

The screenshot shows the WinBox v3.18 (Addresses) window. The title bar includes the application name and standard window controls. The menu bar contains 'File' and 'Tools'. The main area has three input fields: 'Connect To:' with the value 'CC:2D:E0:D2:98:72', 'Login:' with 'admin', and 'Password:'. To the right are two checkboxes: 'Keep Password' (checked) and 'Open In New Window' (unchecked). Below these are three buttons: 'Add/Set', 'Connect To RoMON', and 'Connect'.

Below the connection fields, there are two tabs: 'Managed' (selected) and 'Neighbors'. Under the 'Managed' tab, there is a 'Refresh' button and a search area with a 'Find' input field, a dropdown menu set to 'all', and a search icon. Below this is a table with the following data:

MAC Address	IP Address	Identity	Version	Board	Uptime	
CC:2D:E0:D2:98:72	0.0.0.0	MikroTik	6.40.5 (st...	RBwsAP5Hac2nD	00:01:36	

Winbox

The screenshot displays the WinBox v6.40.5 web interface for a MikroTik router. The browser title is "admin@CC:2D:E0:D2:98:72 (MikroTik) - WinBox v6.40.5 on wsAP ac lite (mipsbe)". The interface includes a navigation menu on the left with categories like Quick Set, CAPsMAN, Interfaces, Wireless, Bridge, PPP, Switch, Mesh, IP, MPLS, Routing, System, Queues, Files, Log, Radius, Tools, New Terminal, and MetaROUTER. The main content area shows the "RouterOS Default Configuration" dialog box, which contains the following text:

```
RouterOS Default Configuration

The following default configuration has been installed on your router:

RouterMode:
* WAN port is protected by firewall and enabled DHCP client
* Wireless interfaces are part of LAN bridge
wlan1 Configuration:
mode: ap-bridge;
band: 2ghz-b/g/n;
ht-chains: 0,1;
ht-extension: 20/40mhz-Ce;
wlan2 Configuration:
mode: ap-bridge;
band: 5ghz-a/n/ac;
ht-chains: 0;
ht-extension: 20/40/80mhz-Ceee;
LAN Configuration:
IP address 192.168.88.1/24 is set on LAN port
DHCP Server: enabled;
DNS: enabled;
WAN (gateway) Configuration:
```

At the bottom of the dialog box, there are three buttons: "Remove Configuration", "Show Script...", and "OK".

Upgrade

admin@CC:2D:E0:D2:98:72 (MikroTik) - WinBox v6.40.5 on wsAP ac lite (mipsbe)

Session Settings Dashboard

Safe Mode Session: CC:2D:E0:D2:98:72

Quick Set
CAPsMAN
Interfaces
Wireless
Bridge
PPP
Switch
Mesh
IP
MPLS
Routing
System
Queues
Files
Log
Radius
Tools
New Terminal
MetaROUTER
Partition
Make Spout.rtf
Manual
New WinBox

File List

File Name / Type Size Creation Time

flash	disk		
flash/skins	directory		Jan/01/15

Package List

Check For Updates

Name	Version	Created	Modified
routeros-mipsbe	6.40.5		
advanced-t...	6.40.5	Oct/31/2017 13:05:15	
dhcp	6.40.5	Oct/31/2017 13:05:15	
hotspot	6.40.5	Oct/31/2017 13:05:15	
ipv6	6.40.5	Oct/31/2017 13:05:15	
mpls	6.40.5	Oct/31/2017 13:05:15	
ppp	6.40.5	Oct/31/2017 13:05:15	
routing	6.40.5	Oct/31/2017 13:05:15	
security	6.40.5	Oct/31/2017 13:05:15	
system	6.40.5	Oct/31/2017 13:05:15	
wireless	6.40.5	Oct/31/2017 13:05:15	

2 items 10.8 MiB of 16.0 MiB used 32% free

11 items

all_packages-mipsbe-6.43.4.zip

File Commands Tools Favorites Options Help

Add Extract To Test View Delete Find Wizard Info VirusScan Comment SFX

all_packages-mipsbe-6.43.4.zip - ZIP archive, unpacked size 14,663,958 bytes

Name	Size	Packed	Type	Modified	CRC32
Local Disk					
advanced-tools-6.43.4-mipsbe.npk	102,481	95,298	NPK File	10/18/2018 9:2...	4FB30837
calea-6.43.4-mipsbe.npk	20,561	15,814	NPK File	10/18/2018 9:2...	79D73518
dhcp-6.43.4-mipsbe.npk	188,497	182,396	NPK File	10/18/2018 9:2...	CC50A951
gps-6.43.4-mipsbe.npk	53,329	45,861	NPK File	10/18/2018 9:2...	7C572EA0
hotspot-6.43.4-mipsbe.npk	188,497	180,631	NPK File	10/18/2018 9:2...	456DAEF0
ipv6-6.43.4-mipsbe.npk	237,649	232,732	NPK File	10/18/2018 9:2...	31602BB0
lcd-6.43.4-mipsbe.npk	57,425	51,181	NPK File	10/18/2018 9:2...	598687D4
lte-6.43.4-mipsbe.npk	1,990,737	1,985,757	NPK File	10/18/2018 9:2...	E3CCABA6
mpls-6.43.4-mipsbe.npk	98,385	90,901	NPK File	10/18/2018 9:2...	34C2BA4D
multicast-6.43.4-mipsbe.npk	73,809	67,107	NPK File	10/18/2018 9:2...	7E635687
ntp-6.43.4-mipsbe.npk	266,321	260,441	NPK File	10/18/2018 9:2...	9DB37B1A
openflow-6.43.4-mipsbe.npk	77,905	71,318	NPK File	10/18/2018 9:2...	2CA9B3F4
ppp-6.43.4-mipsbe.npk	311,377	304,530	NPK File	10/18/2018 9:2...	DCAE8329
routing-6.43.4-mipsbe.npk	122,961	118,775	NPK File	10/18/2018 9:2...	942CA188
security-6.43.4-mipsbe.npk	335,953	328,998	NPK File	10/18/2018 9:2...	28E19981
system-6.43.4-mipsbe.npk	7,600,915	7,510,043	NPK File	10/18/2018 9:2...	62123090
tr069-client-6.43.4-mipsbe.npk	139,345	133,530	NPK File	10/18/2018 9:2...	73505232
ups-6.43.4-mipsbe.npk	65,617	59,532	NPK File	10/18/2018 9:2...	37EFF481
user-manager-6.43.4-mipsbe.npk	868,433	861,628	NPK File	10/18/2018 9:2...	569410F6
wireless-6.43.4-mipsbe.npk	1,863,761	1,856,878	NPK File	10/18/2018 9:2...	647E4F8D

Total 14,663,958 bytes in 20 files

Upgrade

inBox v6.40.5 on wsAP ac lite (mipsbe)

2:98:72

File List

File Name	Type	Size	Creation Time
advanced-tools-6.43.4-mipsbe.npk	package	100.1 KiB	Jan/02/1970 00:08:10
calea-6.43.4-mipsbe.npk	package	20.1 KiB	Jan/02/1970 00:08:10
dhcp-6.43.4-mipsbe.npk	package	184.1 KiB	Jan/02/1970 00:08:10
flash	disk		Jan/01/1970
flash/skins	directory		Jan/01/1970 00:00:01
gps-6.43.4-mipsbe.npk	package	52.1 KiB	Jan/02/1970 00:08:10
hotspot-6.43.4-mipsbe.npk	package	184.1 KiB	Jan/02/1970 00:08:11
ipv6-6.43.4-mipsbe.npk	package	232.1 KiB	Jan/02/1970 00:08:15
lcd-6.43.4-mipsbe.npk	package	31.4 KiB	Jan/02/1970 00:08:17

Uploading Files

Uploading lcd-6.43.4-mips... (803.9 KiB of 14.0 MiB at 204.71 Mb)

32% free

Cancel

Upgrade

- ▶ Shkarkojme paketat nga MikroTik
- ▶ I hedhim tek "files"
- ▶ Restartojme ruterin

Upgrade

98:72 (MikroTik) - WinBox v6.43.4 on wsAP ac lite (mipsbe)

board

Session: CC:2D:E0:D2:98:72

File List

File Name / Type Size Creation Time

flash	disk		Jan/01/1970 02:00:07
flash/skins	directory		Jan/01/1970 02:00:01
flash/user-manager	directory		Jan/02/1970 02:13:14
flash/user-manager/logsqldb	file	6.0 KiB	Jan/01/2002 03:00:03
flash/user-manager/sqldb	file	80.0 KiB	Jan/01/2002 03:00:09
um-before-migration.tar	tar file	17.0 KiB	Jan/01/2002 03:00:09

Routerboard

Routerboard

Model: RouterBOARD wsAP 5Hac2nD

Serial Number: 925C0853DF23

Firmware Type: qca9531L

Factory Firmware: 3.41

Current Firmware: 3.41

Upgrade Firmware: 6.43.4

Buttons: OK, Upgrade, Settings, USB Power Reset, Mode Button

Package List

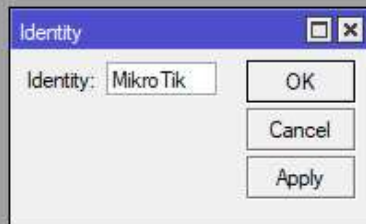
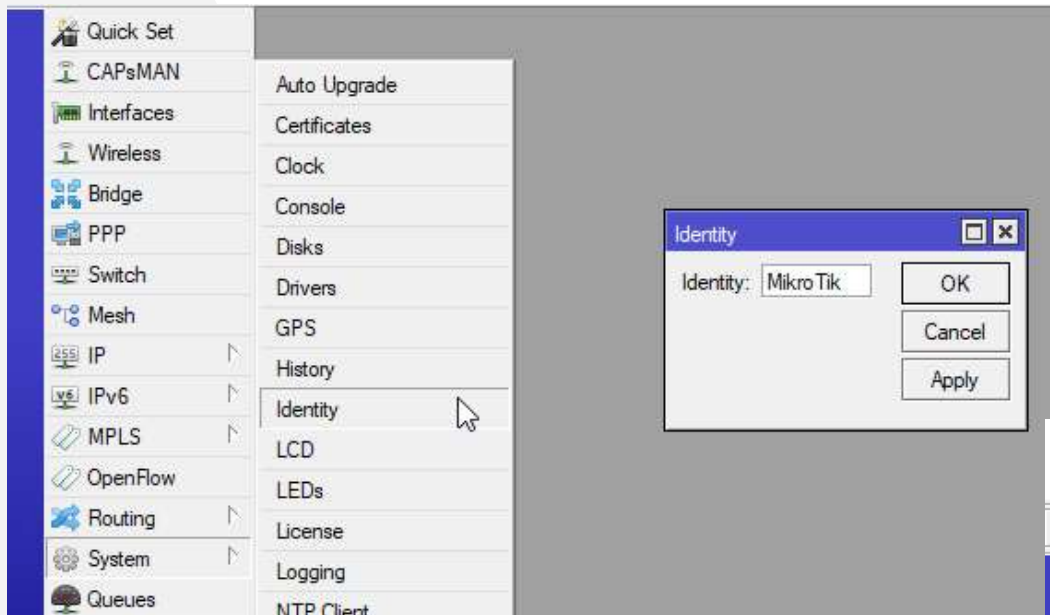
Check For Updates

Name	Version	Creation Time
advanced-tools	6.43.4	Oct/17/2018 06:37:48
calea	6.43.4	Oct/17/2018 06:37:48
dhcp	6.43.4	Oct/17/2018 06:37:48
gps	6.43.4	Oct/17/2018 06:37:48
hotspot	6.43.4	Oct/17/2018 06:37:48
ipv6	6.43.4	Oct/17/2018 06:37:48
lcd	6.43.4	Oct/17/2018 06:37:48
lte	6.43.4	Oct/17/2018 06:37:48
mpls	6.43.4	Oct/17/2018 06:37:48

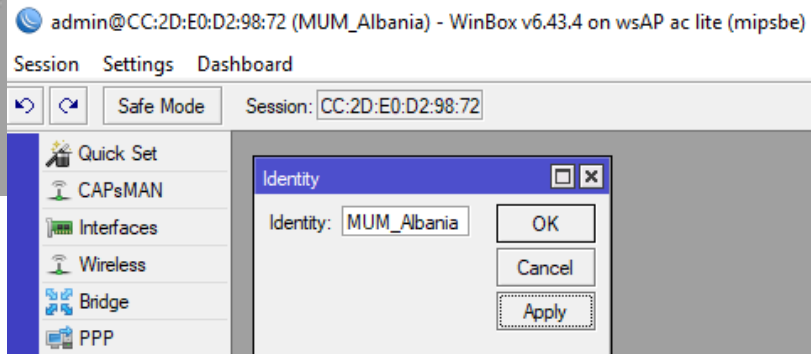
Upgrade firmware

- ▶ Shkojme tek System – Routerboard
- ▶ Japim “Upgrade”

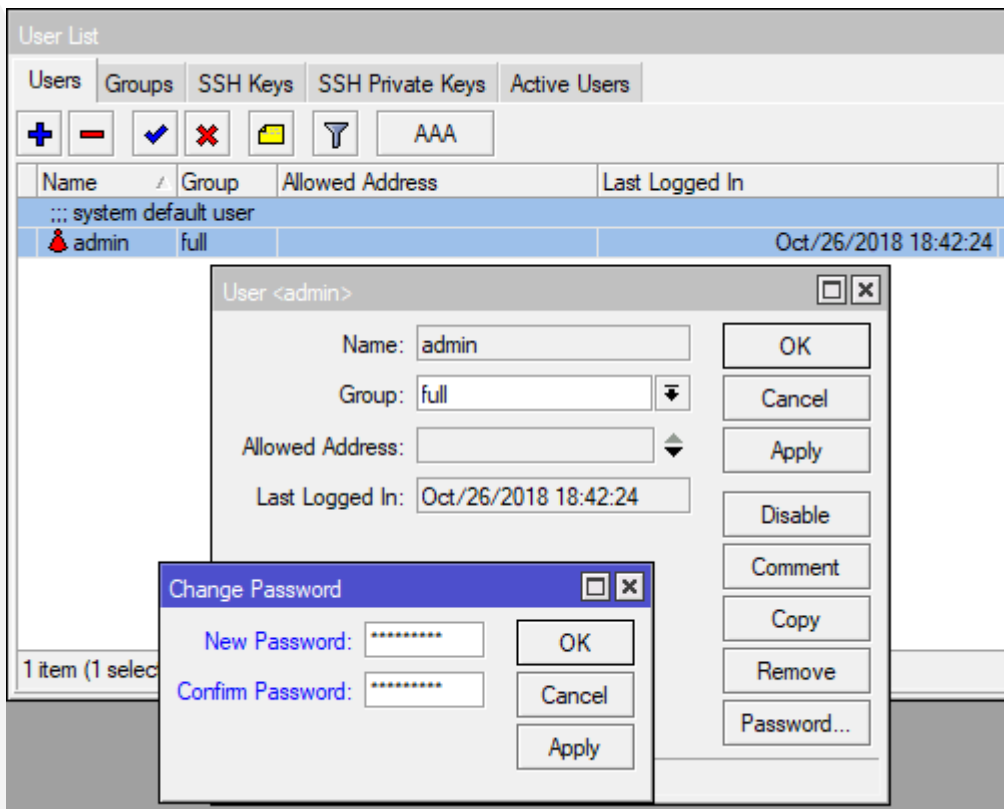
Identiteti



- ▶ Shkojme tek System - Identity
- ▶ Vendosim identitetin



Perdoruesit e sistemit - Users



The screenshot displays a 'User List' window with a table of users. The 'admin' user is selected. A 'Change Password' dialog box is open, prompting for a new password and its confirmation. The 'User <admin>' dialog box is also visible, showing the user's details.

Name	Group	Allowed Address	Last Logged In
... system default user			
admin	full		Oct/26/2018 18:42:24

Change Password dialog box:

New Password: [masked]
Confirm Password: [masked]

User <admin> dialog box:

Name: admin
Group: full
Allowed Address: [empty]
Last Logged In: Oct/26/2018 18:42:24

- ▶ Shkojme tek System – Users
- ▶ Double click mbi perdoruesin
- ▶ Klikojme mbi password
- ▶ Vendosim Passwordin
- ▶ OK

Interfaces

admin@CC:2D:E0:D2:98:72 (MUM_Albania) - WinBox v6.43.4 on wsAP ac lite (mipsbe)

Session Settings Dashboard

Safe Mode Session: CC:2D:E0:D2:98:72

Quick Set
CAPsMAN
Interfaces
Wireless
Bridge
PPP
Switch
Mesh
IP
IPv6
MPLS
OpenFlow

Interface List

Interface Interface List Ethernet EoIP Tunnel IP Tunnel GRE Tunnel VLAN VRRP Bonding ...

+ - ✓ ✗ [Icon] [Icon] Detect Internet Find

	Name	Type	Actual MTU	L2 MTU	Tx	Rx
R	ether1	Ethernet	1500	1598		57.6 kbps
	ether2	Ethernet	1500	1598		0 bps
	ether3	Ethernet	1500	1598		0 bps
X	wlan1	Wireless (Atheros AR9...	1500	1600		0 bps
X	wlan2	Wireless (Atheros AR9...	1500	1600		0 bps

5 items

Adresat IP

admin@CC:2D:E0:D2:98:72 (MUM_Albania) - WinBox v6.43.4 on wsAP ac lite (mipsbe)

Session Settings Dashboard

Safe Mode Session: CC:2D:E0:D2:98:72

- Quick Set
- CAPsMAN
- Interfaces
- Wireless
- Bridge
- PPP
- Switch
- Mesh
- IP
 - ARP
 - Accounting
 - Addresses
 - Cloud
 - DHCP Client
 - DHCP Relay
 - DHCP Server
 - DNS
 - Firewall
- IPv6
- MPLS
- OpenFlow
- Routing
- System
- Queues

Address List

	Address	Network	Interface
D	192.168.2.2/24	192.168.2.0	ether1

1 item

Adresat IP - Statike

Address List

	Address	Network	Interface	
D	192.168.2.2/24	192.168.2.0	ether1	

New Address

Address: 192.168.8.1/24

Network:

Interface: ether2

OK
Cancel
Apply
Disable
Comment
Copy
Remove

1 item
enabled

Address List

	Address	Network	Interface	
D	192.168.2.2/24	192.168.2.0	ether1	
	192.168.8.1/24	192.168.8.0	ether2	

Address <192.168.8.1/24>

Address: 192.168.8.1/24

Network: 192.168.8.0

Interface: ether2

OK
Cancel
Apply
Disable
Comment
Copy
Remove

2 items
enabled

Adresat IP - Statike

Network and Subnet Helper

MASK (DEC):		.252		.248		.240		.224		.192		.128		.0	
MASK (BITS):		/30		/29		/28		/27		/26		/25		/24	
SUBNET BITS:		2		3		4		5		6		7		8	
N=Network:	B=Broadcast:	N	B	N	B	N	B	N	B	N	B	N	B	N	B
00000000	00000011	0	3	0		0		0		0		0		0	
00000100	00000111	4	7		7										
00001000	00001011	8	11	8											
00001100	00001111	12	15		15		15								
00010000	00010011	16	19	16		16									
00010100	00010111	20	23		23										

Shembull: Nje IP 80.78.74.13 me subnet 255.255.255.240, do te vendoset ne MikroTik si 80.78.74.13/28, do te kete si network: 80.78.74.0, si broadcast: 80.78.74.15, si gateway: 80.78.74.1

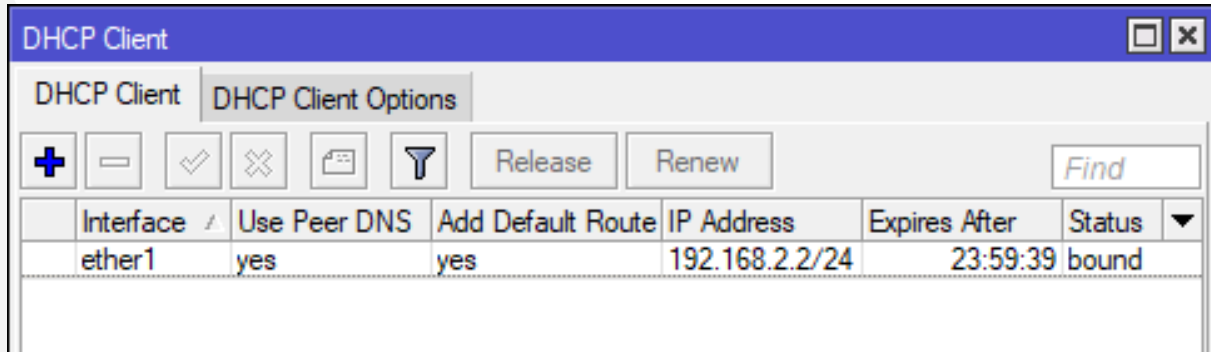
Shembull 2: Nje IP 80.89.45.11 me subnet 255.255.255.248, do te vendoset ne MikroTik si.....

Adresat IP - Dinamike

The screenshot shows the Mikrotik WinBox interface. On the left is a navigation tree with categories like Quick Set, CAPsMAN, Interfaces, Wireless, Bridge, PPP, Switch, Mesh, IP, IPv6, MPLS, OpenFlow, Routing, System, Queues, Files, and Log. The 'IP' category is expanded, and 'DHCP Client' is selected. The main window displays the 'DHCP Client' configuration page, with the 'DHCP Client Options' tab active. Below the tabs are buttons for '+', '-', checkmark, X, and a filter icon, along with 'Release' and 'Renew' buttons. A table with columns 'Interface', 'Use P...', 'Add D...', 'IP Address', 'Expires After', and 'Status' is visible. A 'New DHCP Client' dialog box is open in the foreground, showing the 'Advanced' tab. The 'Interface' is set to 'wan1'. There are checkboxes for 'Use Peer DNS' and 'Use Peer NTP', both of which are checked. The 'Add Default Route' is set to 'yes'. On the right side of the dialog, there are buttons for 'OK', 'Cancel', 'Apply', 'Disable', 'Comment', 'Copy', 'Remove', 'Release', and 'Renew'.

- ▶ IP – DHCP Client
- ▶ Japim +
- ▶ Zgjedhim Nderfaqjen
- ▶ Japim OK

Adresat IP - Dinamike



Interface	Use Peer DNS	Add Default Route	IP Address	Expires After	Status
ether1	yes	yes	192.168.2.2/24	23:59:39	bound

Routes

The screenshot displays a network management interface. The 'Route List' window is open, showing a table of routes. Below it, the 'New Route' dialog box is open, allowing for the configuration of a new route.

Route List

	Dst. Address	Gateway	Distance	Rc
DAS	0.0.0.0/0	192.168.2.1 reachable bridge1	1	
DAC	192.168.2.0/24	bridge1 reachable	0	

New Route

General | Attributes

Dst. Address: 0.0.0.0/0

Gateway: 192.168.2.1

Check Gateway: [dropdown]

Type: unicast

Distance: [dropdown]

Scope: 30

Target Scope: 10

Routing Mark: [dropdown]

Pref. Source: [dropdown]

Buttons: OK, Cancel, Apply, Disable, Comment, Copy, Remove

enabled | active

- ▶ IP – Routes
- ▶ Per nje Route te caktuar japim +, dhe shtojme Dst. Address dhe Gateway
- ▶ Japim OK

DNS

The screenshot displays the Mikrotik WinBox interface. On the left, a sidebar menu shows various configuration categories, with 'DNS' selected under the 'System' group. The main window is divided into three panes. The top-left pane shows the 'DHCP Client' configuration for the 'ether1' interface, with 'Use Peer DNS' checked. The top-right pane is the 'DNS Settings' dialog box, which is currently open. The bottom pane shows the 'DNS Static' configuration table, which is currently empty.

DHCP Client Configuration:

Interface	Use Peer DNS
ether1	yes

DNS Settings:

- Servers: [Empty]
- Dynamic Servers: 8.8.8.8
- 80.78.66.66
- Allow Remote Requests
- Max UDP Packet Size: 4096
- Query Server Timeout: 2.000 s
- Query Total Timeout: 10.000 s
- Max. Concurrent Queries: 100
- Max. Concurrent TCP Sessions: 20
- Cache Size: 2048 KiB
- Cache Max TTL: 7d 00:00:00
- Cache Used: 18 KiB

DNS Static Configuration:

#	Name
0 items	

- ▶ IP – DNS
- ▶ Vendorsim IP e serverave
- ▶ Japim OK

The screenshot shows the 'New DNS Static Entry' dialog box. The 'Name' field is set to 'kiufiu.com'. The 'Address' field is set to '192.168.1.2'. The 'TTL' field is set to '1d 00:00:00'. The 'Regexp' field is empty. The 'Cache' checkbox is checked. The 'Status' is set to 'enabled'.

New DNS Static Entry:

- Name: kiufiu.com
- Regexp: [Empty]
- Address: 192.168.1.2
- TTL: 1d 00:00:00 s
- Cache
- Comment: [Empty]
- Copy: [Empty]
- Remove: [Empty]
- Status: enabled

NTP – Network Time Protocol

The screenshot displays a network configuration interface with a sidebar on the left and two main configuration windows on the right.

Left Sidebar: A vertical list of configuration categories including Quick Set, CAPsMAN, Interfaces, Wireless, Bridge, PPP, Switch, Mesh, IP, IPv6, MPLS, OpenFlow, Routing, System, Queues, Files, Log, Radius, and Tools.

Main Configuration Area: A vertical list of system settings including Auto Upgrade, Certificates, Clock, Console, Disks, Drivers, GPS, History, Identity, LCD, LEDs, License, Logging, NTP Client, NTP Server, Packages, Password, and Ports. A mouse cursor is pointing at the 'NTP Client' option.

NTP Client Window: A dialog box titled 'NTP Client' with the following settings:

- Enabled
- Mode: unicast
- Primary NTP Server: 129.6.15.29
- Secondary NTP Server: 0.0.0.0
- Dynamic Servers: 80.78.66.67
- Status: stopped

Buttons: OK, Cancel, Apply.

Clock Window: A dialog box titled 'Clock' with the following settings:

- Time: 20:04:18
- Date: Oct/26/2018
- Time Zone Autodetect
- Time Zone Name: Europe/Tirane
- GMT Offset: +02:00
- DST Active

Buttons: OK, Cancel, Apply.

- ▶ System – NTP Client
- ▶ Vendosim IP e serverave
- ▶ Japim OK

- ▶ System – Clock
- ▶ Zgjedhim Time Zone
- ▶ Japim OK

Bridge

The screenshot displays a network management application interface. On the left is a sidebar menu with various network configuration options: Quick Set, CAPsMAN, Interfaces, Wireless, Bridge (highlighted), PPP, Switch, Mesh, IP, IPv6, MPLS, OpenFlow, Routing, System, Queues, Files, Log, Radius, Tools, and New Terminal. The main window shows the 'Interface List' and a 'New Interface' dialog box. The dialog box has tabs for General, STP, VLAN, Status, and Traffic. The 'General' tab is active, showing fields for Name (bridgeLAN), Type (Bridge), MTU, Actual MTU, L2 MTU, MAC Address, ARP (enabled), ARP Timeout, Admin. MAC Address, and Ageing Time (00:05:00). There are also checkboxes for IGMP Snooping, DHCP Snooping, and Fast Forward. The dialog box has buttons for OK, Cancel, Apply, Disable, Comment, Copy, Remove, and Torch. The interface list below shows a table with columns for Name and a plus icon, with 0 items out of 5.

- ▶ Bridge
- ▶ Shtojme nje bridge
- ▶ I vendosim nje emer dallues
- ▶ Japim OK

Bridge - Ports

The screenshot shows the Mikrotik WinBox interface for configuring a bridge. The 'Interface List' tab is active, displaying a table of interfaces. The 'New Bridge Port' dialog is open, showing the configuration for adding a new port to the bridge.

Interface	Name	Type	Actual MTU	L2 MTU	Tx
R	bridgeLAN	Bridge	1500	65535	0 bps
R	ether1	Ethernet	1500	1598	74.5 kbps
	ether2	Ethernet	1500	1598	0 bps

The 'New Bridge Port' dialog is open, showing the configuration for adding a new port to the bridge. The 'Interface' is set to 'ether2' and the 'Bridge' is set to 'bridgeLAN'. The 'Learn' mode is set to 'auto'. The 'Status' tab is active, showing the following options:

- Unknown Unicast Flood
- Unknown Multicast Flood
- Broadcast Flood
- Trusted

- ▶ Shkojme tek tab: Ports
- ▶ Shtojme portat duke zgjedhur Bridge e duhur
- ▶ Japim OK

Masquerade

admin@CC:2D:E0:D2:98:72 (MUM_Albania) - WinBox v6.43.4 on wsAP ac lite (mipsbe)

Session Settings Dashboard

Safe Mode Session: CC:2D:E0:D2:98:72

Interface List

Interface	Interface
R	bridgeLAN

Firewall

Filter Rules NAT

#	Action	Ch
---	--------	----

New NAT Rule

General Advanced Extra Action ...

Chain: srcnat

Src. Address: []

Dst. Address: []

Protocol: []

Src. Port: []

Dst. Port: []

Any. Port: []

In. Interface: []

Out. Interface: []

In. Interface List: []

OK

Cancel

Apply

Disable

Comment

Copy

Remove

Reset Counters

Reset All Counters

New NAT Rule

Advanced Extra Action Statistics ...

Action: masquerade

Log

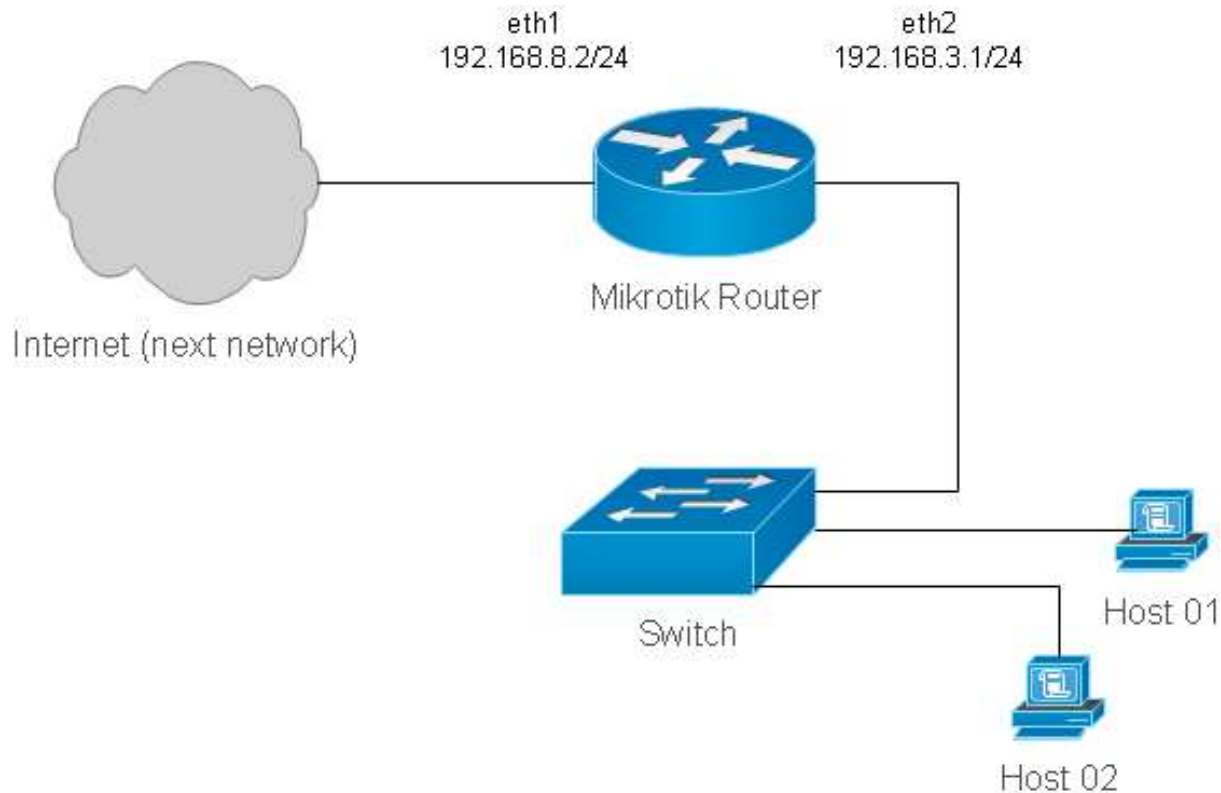
- ▶ Shkojme tek IP - Firewall
- ▶ Tab NAT
- ▶ Shtojme nje Rule te ri
- ▶ Chain=srcnat, action=masquerade

Diagrama (Skema)

“Nuk duhet te nisim asnjehere nje konfigurim pa pasur te qarte pikat thelbesore te rrjetit ne fjale. Vizatimi i nje skeme te thjeshte ndihmon shume e na kthjellon idete”

Ruteri me i thjeshte

Shembull: Konfigurojme nje ruter me
IP: 192.168.8.2/24 tek ether1
IP: 192.168.3.1/24 tek ether2



Ruteri me i thjeshte

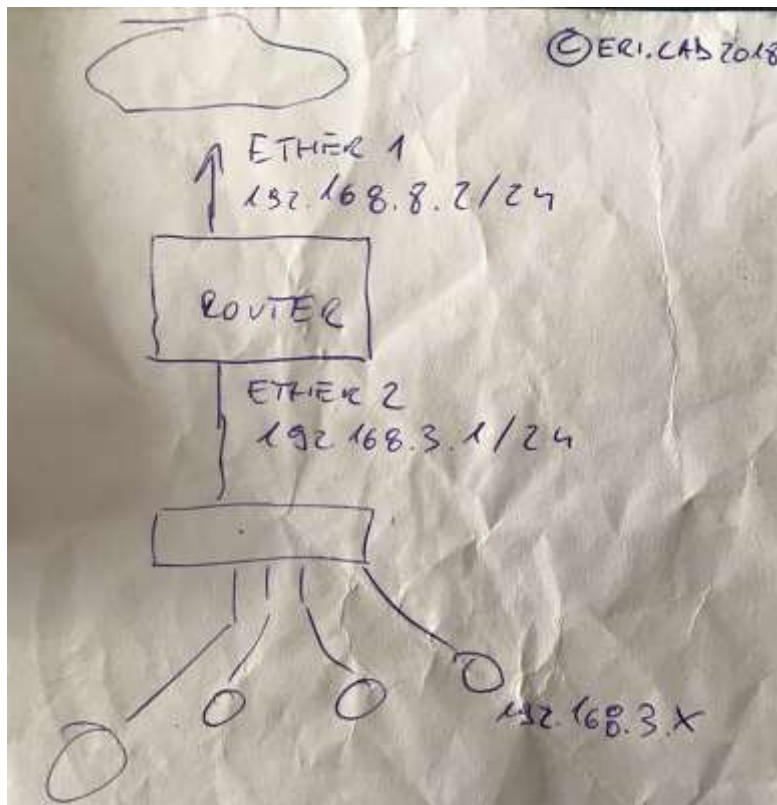
Shembull: Konfigurojme nje ruter me

IP: 192.168.8.2/24 tek ether1

IP: 192.168.3.1/24 tek ether2

Interface List								
Interface	Interface List	Ethernet	EoIP Tunnel	IP Tunnel	GRE Tunnel	VLAN	VRPP	Bond
							Detect Internet	
	Name	Type	Actual MTU	L2 MTU	Tx			
R	ether1	Ethernet	1500	1598	69.4 kbps			
	ether2	Ethernet	1500	1598	0 bps			
	ether3	Ethernet	1500	1598	0 bps			
X	wlan1	Wireless (Atheros AR9...	1500	1600	0 bps			
X	wlan2	Wireless (Atheros AR9...	1500	1600	0 bps			

5 items



3.

Wireless

Wireless

The screenshot shows the WinBox interface for configuring a wireless interface. The top status bar indicates the system is in Safe Mode, with session 192.168.2.2, uptime of 03:19:13, memory usage of 39.7 MiB, CPU usage of 4%, and the date/time as Oct/28/2018 11:59:47.

The left sidebar shows the WinBox menu with categories like Quick Set, CAPsMAN, Interfaces, Wireless, Bridge, PPP, Switch, Mesh, IP, IPv6, MPLS, OpenFlow, Routing, System, Queues, Files, Log, Radius, Tools, New Terminal, TR069, and MetaROUTER.

The main window displays the configuration for the selected wireless interface, wlan1. The configuration is as follows:

- Mode:** ap bridge
- Band:** 2GHz-B/G
- Channel Width:** 20MHz
- Frequency:** 2412 MHz
- SSID:** MikroTik
- Scan List:** default
- Wireless Protocol:** any
- Security Profile:** default
- WPS Mode:** push button
- Bridge Mode:** enabled
- VLAN Mode:** no tag
- VLAN ID:** 1
- Default AP Tx Rate:** (empty) bps
- Default Client Tx Rate:** (empty) bps
- Default Authenticate
- Default Forward
- Hide SSID

On the right side of the configuration window, there are several buttons: OK, Cancel, Apply, Enable, Comment, Advanced Mode, Torch, WPS Accept, WPS Client, Setup Repeater, Scan..., Freq. Usage..., Align..., Sniff..., Snooper..., and Reset Configuration.

▶ Ne winbox klikojme mbi Wireless

▶ Tek dritarja që shfaqet zgjedhim interface me të cilën do të punojmë

Wireless

Session: 192.168.2.2 Uptime: 03:21:32 Memory: 39.7 MiB CPU: 5% Date: Oct/28/2018 Time: 12:02:06

Wireless Tables

WiFi Interfaces W60G

	Name
X	wlan1
X	wlan2

Interface <wlan1>

General Wireless HT WDS Nstreme NV2 Status Traffic

Mode: ap bridge

Band: 2GHz-B/G

Channel Width: 2GHz-B
2GHz-only-G
2GHz-B/G

Frequency: 2GHz-only-N
2GHz-B/G/N
2GHz-G/N

SSID: 2GHz-G/N

OK
Cancel
Apply
Enable

Routeri me te cilin po punojme ka dy karta wireless:

- ▶ wlan1 2.4Ghz
- ▶ wlan2 5Ghz

Session: 192.168.2.2 Uptime: 03:22:33 Memory: 39.7 MiB CPU: 4% Date: Oct/28/2018 Time: 12:03:07

Wireless Tables

WiFi Interfaces

	Name
X	wlan1
X	wlan2

Interface <wlan2>

General Wireless HT WDS Nstreme NV2 Status Traffic

Mode: ap bridge

Band: 5GHz-A

Channel Width: 5GHz-A
5GHz-only-N
5GHz-A/N

Frequency: 5GHz-A/N/AC
5GHz-only-AC
5GHz-N/AC

SSID: 5GHz-N/AC

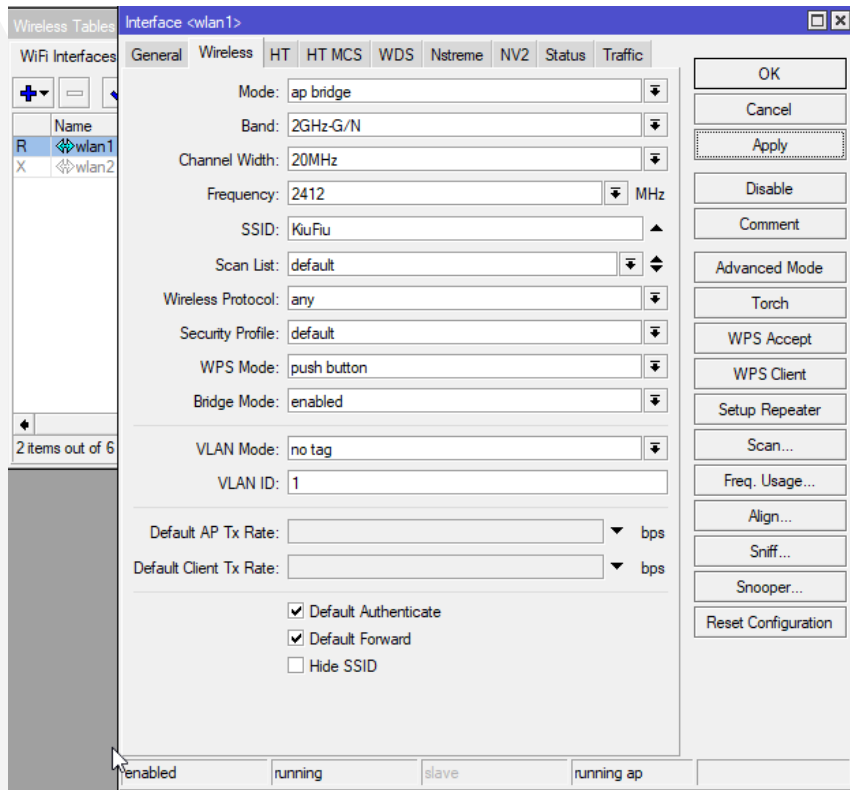
Scan List: default

Wireless Protocol: any

Security Profile: default

OK
Cancel
Apply
Enable
Comment
Advanced Mode
Torch
WPS Accept

Wireless



Per nje AP te thjeshte zgjedhim:

- ▶ Mode: ap bridge
- ▶ Band: 2GHZ-G/N
- ▶ Channel Width: 20MHz
- ▶ Frequency: 2412
- ▶ SSID: KiuFiu
- ▶ Security Profile: default

Wireless – Security Profiles

The screenshot displays the WinBox v6.43.4 interface. The top navigation bar includes 'Session', 'Settings', and 'Dashboard'. The main menu on the left lists various network components: CAPsMAN, Interfaces, Wireless, Bridge, PPP, Switch, Mesh, IP, IPv6, MPLS, OpenFlow, Routing, and System. The 'Settings' tab is active, and the 'Security Profiles' section is selected. A dialog box titled 'Security Profile <default>' is open, showing the configuration for the 'default' profile. The 'General' tab is selected, and the 'Mode' is set to 'dynamic keys'. The 'Authentication Types' section has 'WPA PSK' and 'WPA2 PSK' checked. The 'Unicast Ciphers' section has 'aes ccm' checked. The 'Group Ciphers' section has 'aes ccm' checked. The 'WPA Pre-Shared Key' and 'WPA2 Pre-Shared Key' fields are visible with masked characters. The dialog box includes 'OK', 'Cancel', 'Apply', 'Comment', 'Copy', and 'Remove' buttons.

- ▶ Tek wireless interfaces shkojme tek “Security Profiles”
- ▶ Vendorsim te dhenat

4.

Monitorimi

RESOURCES

Resources

Uptime:	00:45:43	OK
Free Memory:	40.8 MiB	PCI
Total Memory:	64.0 MiB	USB
CPU:	MIPS 24Kc V7.4	CPU
CPU Count:	1	IRQ
CPU Frequency:	650 MHz	
CPU Load:	1 %	
Free HDD Space:	3684 KiB	
Total HDD Size:	16.0 MiB	
Sector Writes Since Reboot:	139	
Total Sector Writes:	5 162	
Bad Blocks:	0.0 %	
Architecture Name:	mipsbe	
Board Name:	wsAP ac lite	
Version:	6.43.4 (stable)	
Build Time:	Oct/17/2018 06:37:48	
Factory Software:	6.40.5	

▶ System – Resources

68.2.2 (MUM_Albania) - WinBox v6.43.4 on wsAP ac lite (mipsbe)

Dashboard

- Add Time
- Add Date
- Add CPU
- Add Memory
- Add Uptime

Uptime: 00:47:09 Memory: 40.8 MiB CPU: 0% Date: Oct/28/2018 Time: 09:27:42

SNMP Settings

Enabled

Contact Info: KiuFiu@ens-al.com

Location: KullaQafaBarit

Engine ID:

Trap Target:

Trap Community: public

Trap Version: 1

Trap Generators: temp-exception

Trap Interfaces:

Src. Address: ::

OK

Cancel

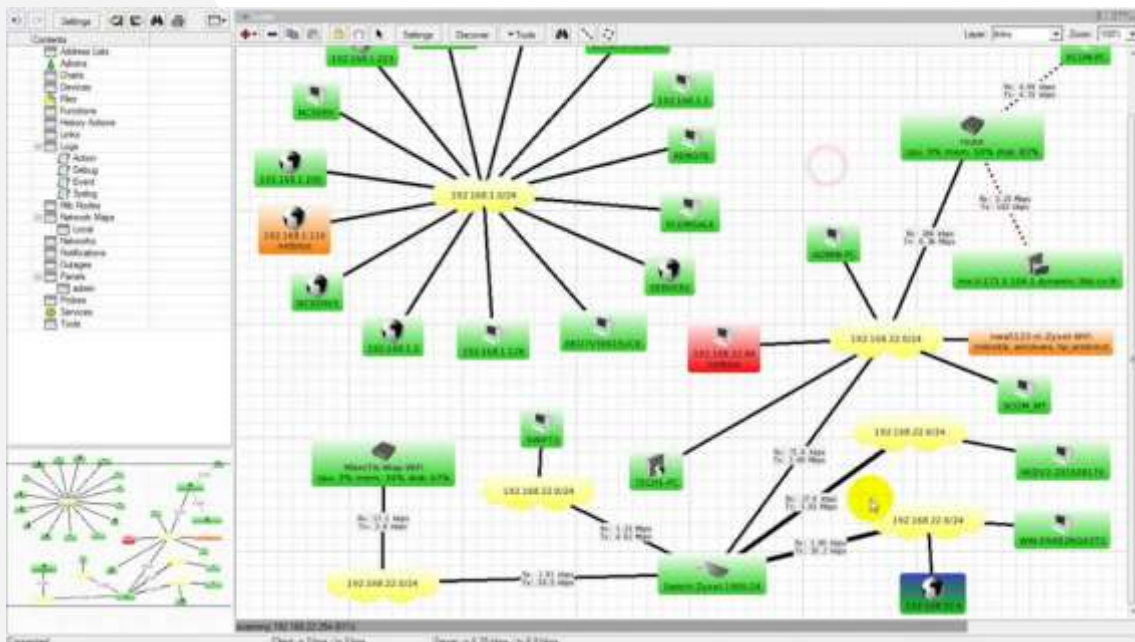
Apply

Communities

SIMPLE NETWORK MONITORING PROTOCOL

- ▶ Krijuar 1989
- ▶ Funksionon ne baze: Manaxher – Agjent
- ▶ Nga MikroTik suportohen vers: v1-v3

THE DUDE



Sistem monitorimi falas nga MikroTik

Mund te instalohet ne:

- ▶ CCR
- ▶ CHR
- ▶ X86
- ▶ RB3011/1100AHx4 Dude Edition

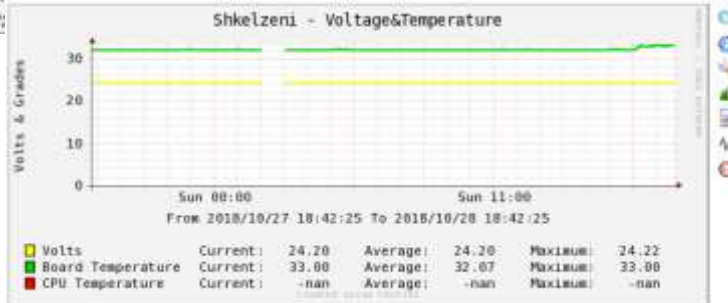
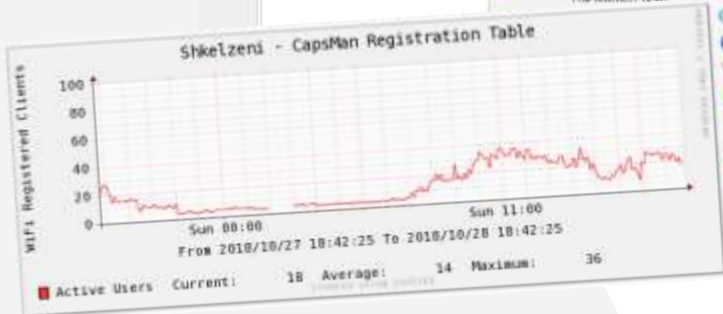


Me shume info: Prezantim Pauls Jukonis, MikroTik ne MUM Vietnam 2017

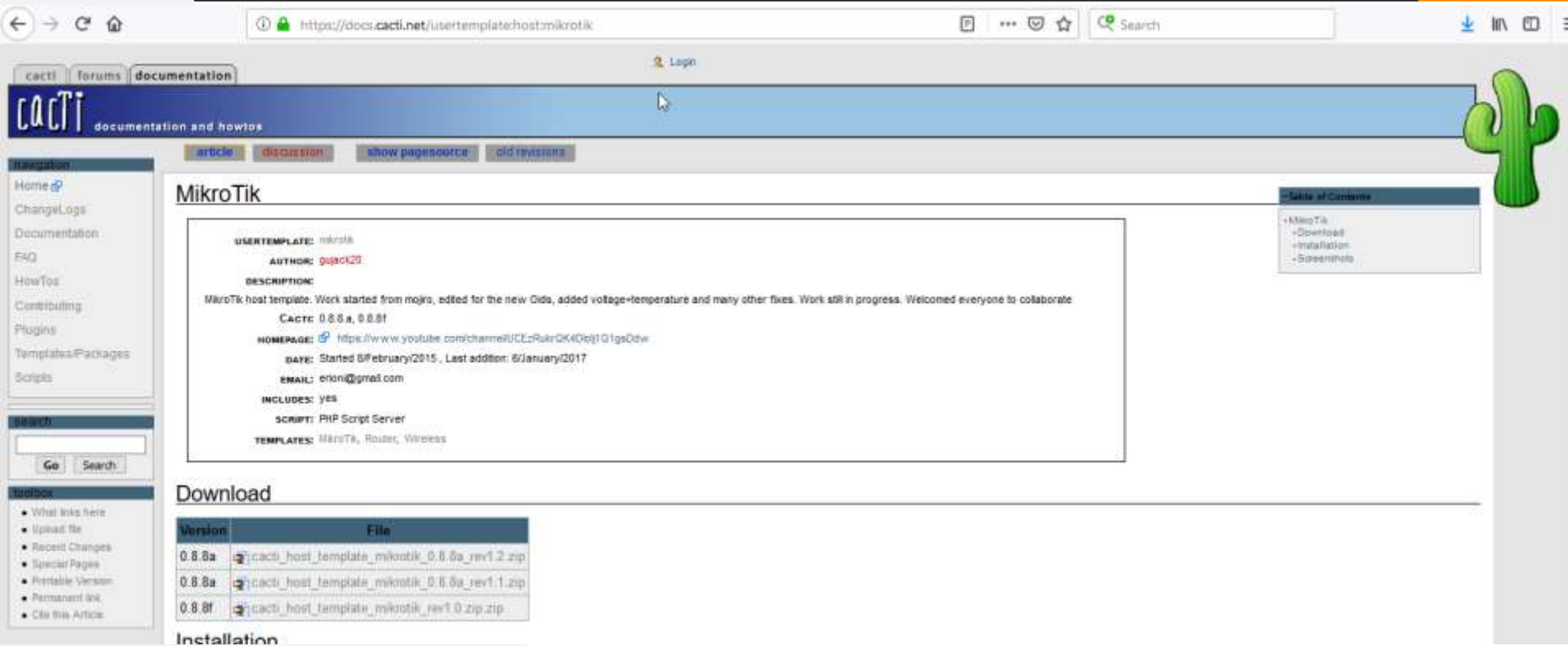
CACTI



- ▶ Sistem i plote open-source per monitorim
- ▶ Mund te instalohet ne X86 ose X64
- ▶ Set i madh pluginesh, si pershembull: syslog



Me shume info: <https://www.youtube.com/watch?v=tH-smlBg1Gg>



The screenshot shows a web browser displaying the CACTI documentation page for MikroTik templates. The page has a blue header with the CACTI logo and navigation tabs for 'cacti', 'forums', and 'documentation'. A search bar is visible in the top right. The main content area is titled 'MikroTik' and contains a table with details about the templates. Below the table is a 'Download' section with a table listing versions and file names. On the right side, there is a 'Table of Contents' sidebar with links to 'MikroTik', 'Download', 'Installation', and 'Screenshots'. A green cactus icon is positioned on the right edge of the page.

Navigation: Home, Change Logs, Documentation, FAQ, How To's, Contributing, Plugins, Templates/Packages, Scripts

Search: [Search Bar]

MikroTik

USERTEMPLATE: mikrotik
AUTHOR: gujack20
DESCRIPTION: MikroTik host template. Work started from mojito, edited for the new Dida, added voltage-temperature and many other fixes. Work still in progress. Welcomed everyone to collaborate
CACTI: 0.8.6a, 0.8.8f
HOMEPAGE: https://www.youtube.com/channel/UCLeRukrQK4D6j1G1gs0dw
DATE: Started 6/February2015, Last addition: 6/January2017
EMAIL: erion@gmail.com
INCLUDES: yes
SCRIPT: PHP Script Server
TEMPLATES: MikroTik, Router, Wireless

Download

Version	File
0.8.6a	cacti_host_template_mikrotik_0.8.6a_rev1.2.zip
0.8.8a	cacti_host_template_mikrotik_0.8.8a_rev1.1.zip
0.8.8f	cacti_host_template_mikrotik_rev1.0.zip.zip

Installation

Table of Contents:

- MikroTik
- Download
- Installation
- Screenshots



- ▶ Sistem i plote open-source per monitorim
- ▶ Mund te instalohet ne X86 ose X64
- ▶ Agjente te gatshem per MikroTik RouterOS

Logging

Quick Set
CAPsMAN
Interfaces
Wireless
Bridge
PPP
Switch
Mesh
IP
IPv6
MPLS
OpenFlow
Routing
System
Queues
Files
Log
Auto Upgrade
Certificates
Clock
Console
Disks
Drivers
GPS
History
Identity
LCD
LEDs
License
Logging
NTP Client

Logging

Rules Actions

+ - Filter Find

Name	Type
* disk	disk
* echo	echo
* memory	memory
* remote	remote

4 items

- ▶ System – Logging
- ▶ Action – Remote

Log Action <remote>

Name: remote OK

Type: remote Cancel

Remote Address: 212.83.128.84 Apply

Remote Port: 514 Copy

Src. Address: 0.0.0.0 Remove

BSD Syslog

Syslog Facility: 3 (daemon)

Syslog Severity: default

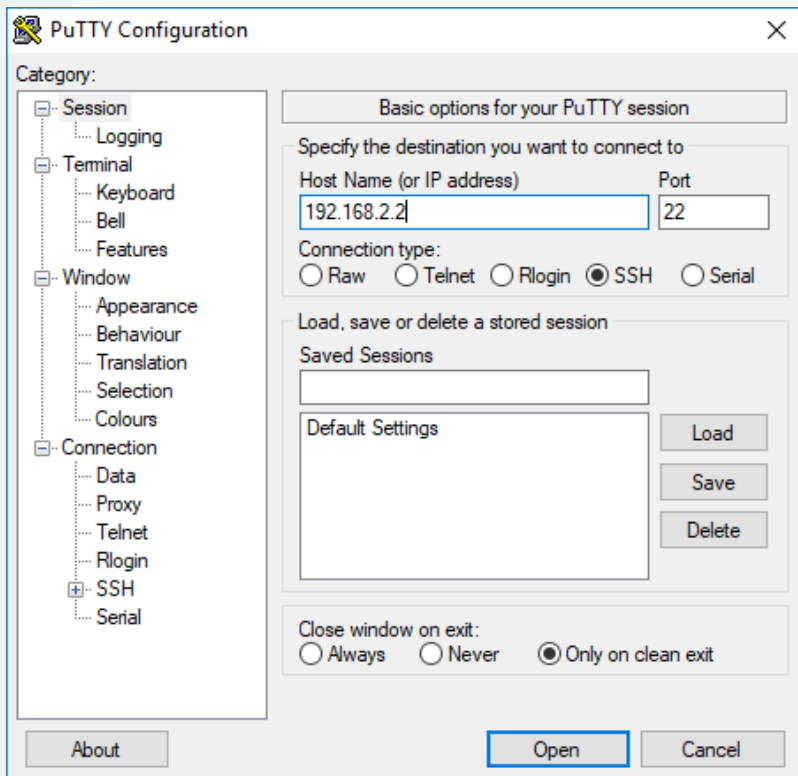
Servera qe mund te perdoren

- ▶ Dude, Nagios, Syslog-Ng (lin)
- ▶ Kiwi-syslog, Paessler PRTG (win)

5. CLI

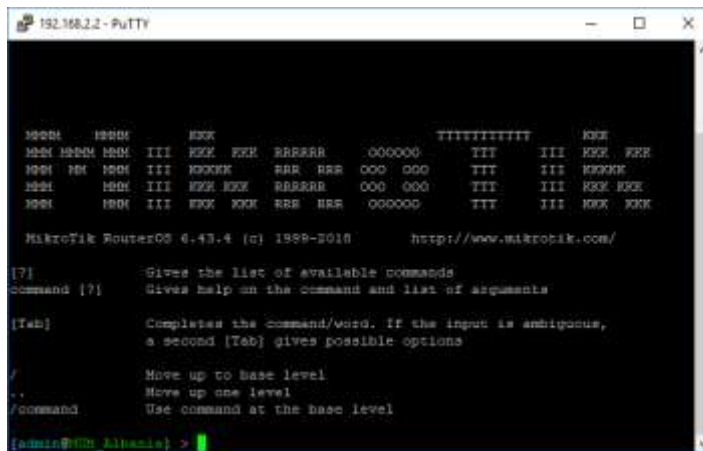


putty.exe



COMMAND LINE INTERFACE

- ▶ Telnet
- ▶ SSH
- ▶ Serial
- ▶ Keyboard
- ▶ Winbox – New Terminal



The screenshot shows the Winbox interface on the left with a 'New Terminal' button highlighted. The terminal window on the right displays the following content:

```

MMM      MMM      KKK                               TTTTTTTTTT      KKK
MMMM     MMMM     KKK                               TTTTTTTTTT      KKK
MMM MMMM MMM III  KKK KKK RRRRRR   OOOOOO   TTT   III  KKK KKK
MMM MM  MMM III  KKKKKK   RRR RRR  OOO OOO   TTT   III  KKKKK
MMM     MMM III  KKK KKK   RRRRRR   OOO OOO   TTT   III  KKK KKK
MMM     MMM III  KKK KKK   RRR RRR   OOOOOO   TTT   III  KKK KKK

MikroTik RouterOS 6.43.4 (c) 1999-2018      http://www.mikrotik.com/

[?]          Gives the list of available commands
command [?]  Gives help on the command and list of arguments

[Tab]        Completes the command/word. If the input is ambiguous,
              a second [Tab] gives possible options

/            Move up to base level
..          Move up one level
/command     Use command at the base level
[admin@MUM_Albania] > █

```

► Winbox – New Terminal

Quick Set
CAPsMAN
Interfaces
Wireless
Bridge
PPP
Switch
Mesh
IP
IPv6
MPLS
OpenFlow
Routing
System
Queues
Files
Log

Neighbor List

Discovery Settings

Interface	IP Address	MAC Address	Identity	Platform	Version	Board Na...	Il
ether1		CC:2D:E0:28:5C:6E	HotiNew	Mikro Tik	6.39.2 (st...	RB952Ui-...	n
ether1	192.168.2.3	64:D1:54:88:9B:F8	HoTi	Mikro Tik	6.39.2 (st...	RB952Ui-...	n
ether1	192.168.2.42	CC:2D:E0:28:58:4B	MUM_CA...	Mikro Tik	6.43.2 (st...	RB952Ui-...	n
ether1	192.168.2.203	D4:CA:6D:E8:71:4C	Ar...	Mikro Tik	6.40.5 (st...	RB952Ui-...	y
ether1	192.168.2.39	00:0C:42:E3:C1:38	Le...				y
ether1	192.168.2.200	00:0C:42:32:D2:D7	xN				y
ether1	192.168.2.1	00:0C:42:F8:71:9A	Sh				y
ether1	192.168.2.48	00:00:00:00:00:00					n

8 items (1 selected)

- Show Categories
- Detail Mode
- Show Columns >
- Find Ctrl+F
- Find Next Ctrl+G
- Ping
- MAC Ping
- Telnet
- MAC Telnet
- Torch

- ▶ Telnet
- ▶ MAC Telnet

6.

IMPLEMENTIMI I SIGURISE

CIA VAULT 7



- ▶ E marte, 7 Mars 2017 - WikiLeaks fillon publikimin e serise se ashtuquajtur VAULT7 te dokumentave te CIA.
- ▶ Permban dobesi te:
 - **iPhone, Android, smart TVs**
 - Routera, switch (CISCO, JUNIPER, MikroTik, Huawei, Asus, Ubiquiti, D-link

CIA VAULT 7



- ▶ E marte, 7 Mars 2017 - WikiLeaks fillon publikimin e serise se ashtuquajtur VAULT7 te dokumentave te CIA.
- ▶ Chimay Red – modul specifikisht per MikroTik permban:
 - http server vulnerability
 - Winbox unauthenticated file read

- ▶ MikroTik OFFICIAL standing is that the “Winbox unauthenticated file read” vulnerability, is not described in Chimay Red.

“ We have asked many times to Wikileaks to send us where in the Vault7 documents, this vulnerability is described, BUT they said that they were going to send them, but DIDN'T. We are sure that this vulnerability was not described there. ”

Chimay Red – http server vulnerability



- ▶ Kjo dobesi konsiston ne dhenien e mundesise per te ekzekutuar komanda ne linux e ruterit
- ▶ MikroTik leshon versionin 6.38.5
What's new in 6.38.5 (2017-Mar-09 11:32)
!) www - fixed http server vulnerability;

Chimay Red – http server vulnerability



- ▶ Ne dokumentat e Vault7 permbahet vetem menyra si te shfrytezohet kjo dobese, dhe jo nje kod aktual per t'u ekzekutuar
- ▶ Keqberesit neper bote e kane shfrytezuar Chimay Red per:
 - Tynyshell, Hive (data warehouse infrastructure Hadoop)
 - Injektimi i DLL

Winbox unauthenticated file read

- ▶ Mundeson leximin e fileve te sistemit, nepermjet nje sesioni winbox te pa-autentifikuar
- ▶ **Leximi i fileve mundeson leximin e user database**
- ▶ Mundesohehet akses i plote ne router
- ▶ Ne cdo pergjigje te ruterit injektohet nje js per cryptocurrency mining, specifikisht Monero

The screenshot shows a web browser displaying a news article from Trend Micro. The article title is "Over 200,000 MikroTik Routers Compromised in Cryptojacking Campaign", dated August 03, 2018. The main text states that security researchers uncovered a cryptojacking campaign where attackers hijack systems to conduct cryptocurrency mining by injecting a malicious version of Coinhive into MikroTik routers. A photograph of yellow Ethernet cables plugged into a network switch is shown. A "What happened?" section explains that the initial phase hacked 72,000 MikroTik routers in Brazil, with over 200,000 routers compromised in total. A "Related Posts" sidebar on the right lists other security-related articles.

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Over 200,000 MikroTik Routers Compromised in Cryptojacking Campaign

August 03, 2018

Security researchers **uncovered** a cryptojacking campaign — where attackers hijack systems to conduct **cryptocurrency mining** — that injects a **malicious version of Coinhive**, a web-based cryptocurrency miner, by exploiting a vulnerability in MikroTik routers. Here's what you need to know about this threat:



What happened?

The initial phase of the cryptojacking campaign **reportedly** hacked 72,000 MikroTik routers in Brazil. As of this writing, over 200,000 MikroTik routers have already been compromised. While the majority of the routers were in Brazil, researchers also noted that the attacks are now also **spreading** outside the country.

This indicates that users or organizations using a vulnerable MikroTik router are susceptible to cryptojacking. In fact, researchers saw cases where non-MikroTik routers were also affected,

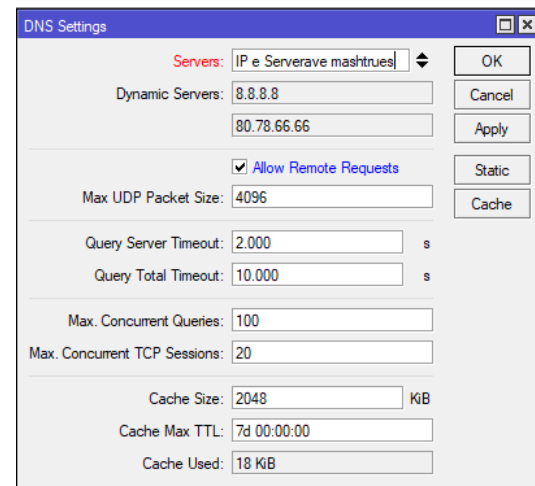
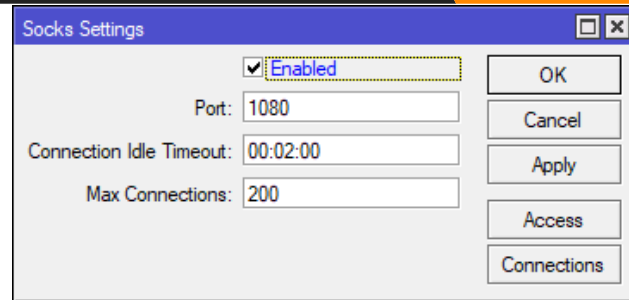
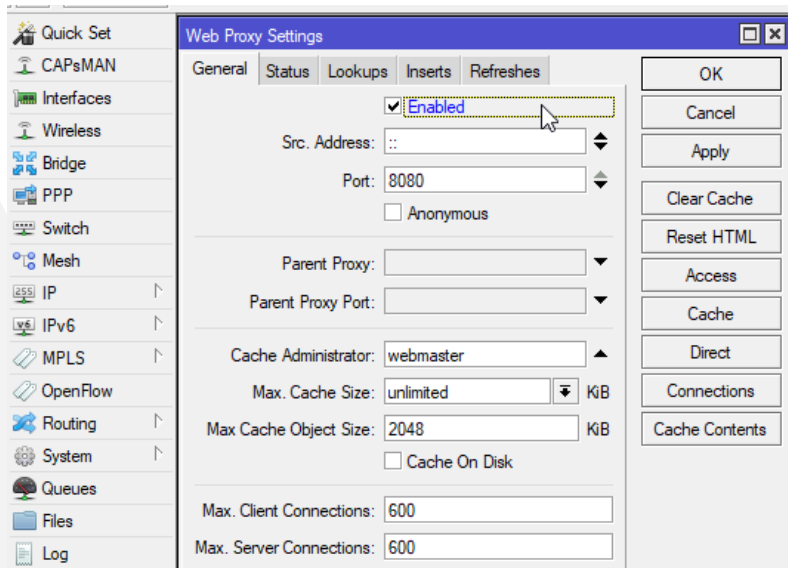
Related Posts

- Critical Infrastructures Exposed and at Risk: Energy and Water Industries
- Toit Fraud, International Revenue Share Fraud and More: How Criminals Monetize Hacked Cellphones and IoT Devices for Telecom Fraud
- National Cyber Security Awareness Month: The Enterprise's Safety Online is Everyone's Business
- Report Finds Increased Credential Stuffing Attacks on Financial Sector
- New Multi-Platform Ixhash Packs: Obfuscation, Ransomware, Coercion, Worm and Botnet

Winbox unauthenticated file read

Shfrytezohet per:

- ▶ Cryptocurrency mining
- ▶ Socks proxy
- ▶ DNS Server
- ▶ etc..



▶ Simptomat:

- ▶ Usera te tjere te krijuar
- ▶ Socks proxy aktive
- ▶ Web proxy active
- ▶ DNS Server
- ▶ Scripte te panjohur
- ▶ Pamundesi logimi ne ruter

Name	Owner	Last Time Started	Run Count
k4m45utr4	admin	Oct/30/2018 20:15:45	1

1 item

2:98:72 (MUM_Albania) - WinBox v6.43.4 on wsAP ac lite (mipsbe)

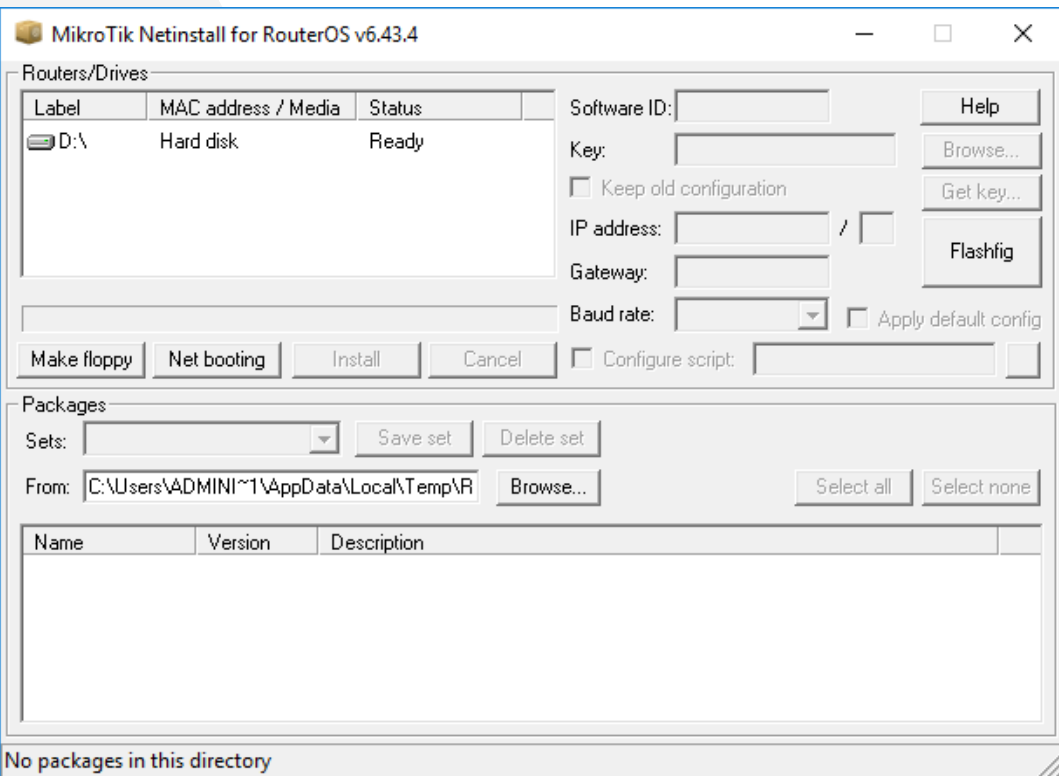
hboard

Session: CC:2D:E0:D2:98:72

Name	Group	Allowed Address	Last Logged In
system default user			
admin	read		Oct/30/20
router	full		

File Name	Type	Size	Creation
auto-before-reset.backup	backup	20.4 KiB	Oct/30/20
dnstest	file	66.2 KiB	Oct/30/20
flash	disk		Jan/01/20
mikrotik.php	.php file	0 B	Oct/30/20
save.sh	.sh file	674 B	Oct/30/20

5 items 12.4 MiB of 16.0 MiB used 22% free

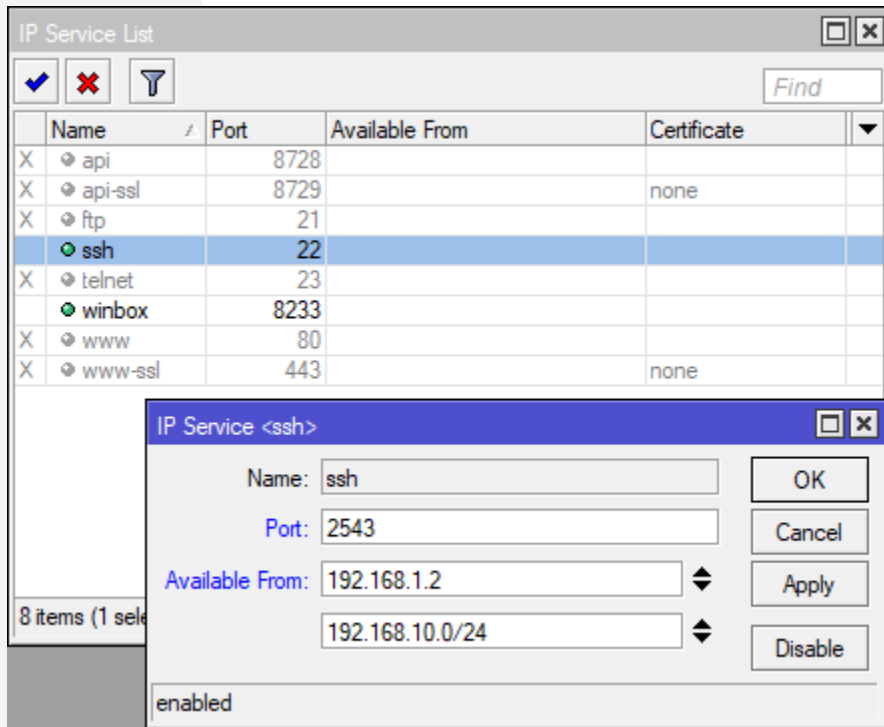


What's new in **6.42.1 (2018-Apr-23 10:46)**:

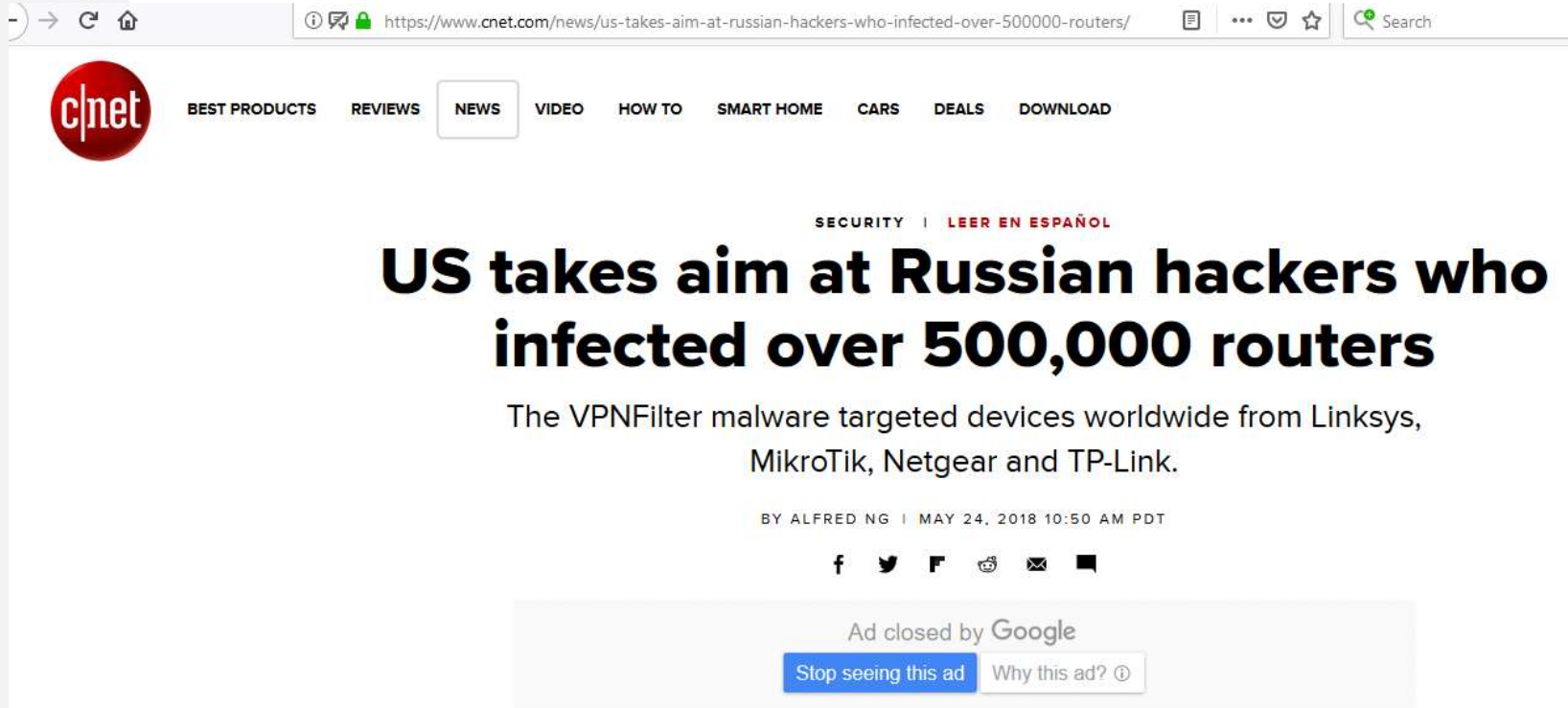
!) winbox - fixed vulnerability that allowed to gain access to an unsecured router;

► **Netinstall**

Mbrojtja per te ardhmen



- ▶ Ndrysho userin admin
- ▶ Ndrysho passin ne varesi te klientit/ruterit
- ▶ Mos ler te hapur sherbime qe nuk i shfrytezon
- ▶ Ndrysho portat default
- ▶ Lejo aksesin ne winbox vetem nga subnet te njohur
- ▶ Mer pjese ne ENS (Easy Network Solutions) mailing list.



The image shows a screenshot of a web browser displaying a news article on the CNET website. The browser's address bar shows the URL: <https://www.cnet.com/news/us-takes-aim-at-russian-hackers-who-infected-over-500000-routers/>. The CNET logo is visible in the top left corner of the page. The navigation menu includes links for BEST PRODUCTS, REVIEWS, NEWS (which is highlighted), VIDEO, HOW TO, SMART HOME, CARS, DEALS, and DOWNLOAD. The article title is "US takes aim at Russian hackers who infected over 500,000 routers", with "SECURITY | LEER EN ESPAÑOL" above it. The sub-headline reads: "The VPNFilter malware targeted devices worldwide from Linksys, MikroTik, Netgear and TP-Link." The byline is "BY ALFRED NG | MAY 24, 2018 10:50 AM PDT". Below the byline are social media sharing icons for Facebook, Twitter, Facebook, Reddit, Email, and Print. At the bottom of the article, there is a grey box with the text "Ad closed by Google" and two buttons: "Stop seeing this ad" and "Why this ad? ⓘ".

https://www.cnet.com/news/us-takes-aim-at-russian-hackers-who-infected-over-500000-routers/

c|net

BEST PRODUCTS REVIEWS NEWS VIDEO HOW TO SMART HOME CARS DEALS DOWNLOAD

SECURITY | LEER EN ESPAÑOL

US takes aim at Russian hackers who infected over 500,000 routers

The VPNFilter malware targeted devices worldwide from Linksys, MikroTik, Netgear and TP-Link.

BY ALFRED NG | MAY 24, 2018 10:50 AM PDT

f t F r e m

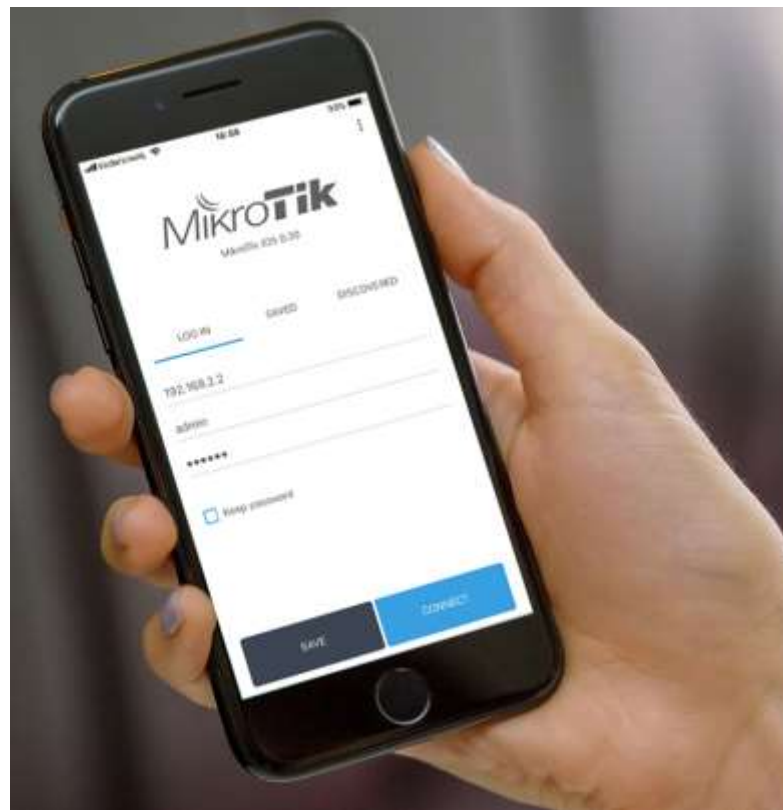
Ad closed by Google

Stop seeing this ad Why this ad? ⓘ

WINBOX në IPHONE



Me ne fund per perdoruesit e Iphone, version Beta i MikroTik iOS 0.20



FALEMINDERIT PER VEMENDJEN!

Pyetje?

erioni@gmail.com

