



Center for Career Development

by LINKgroup

MikroTik

VODIČ KROZ FUNKCIONALNOSTI

Beograd / Maj, 2015.

Presenter

Nikola Gavrilović

Vlasnik IP House, Beograd,

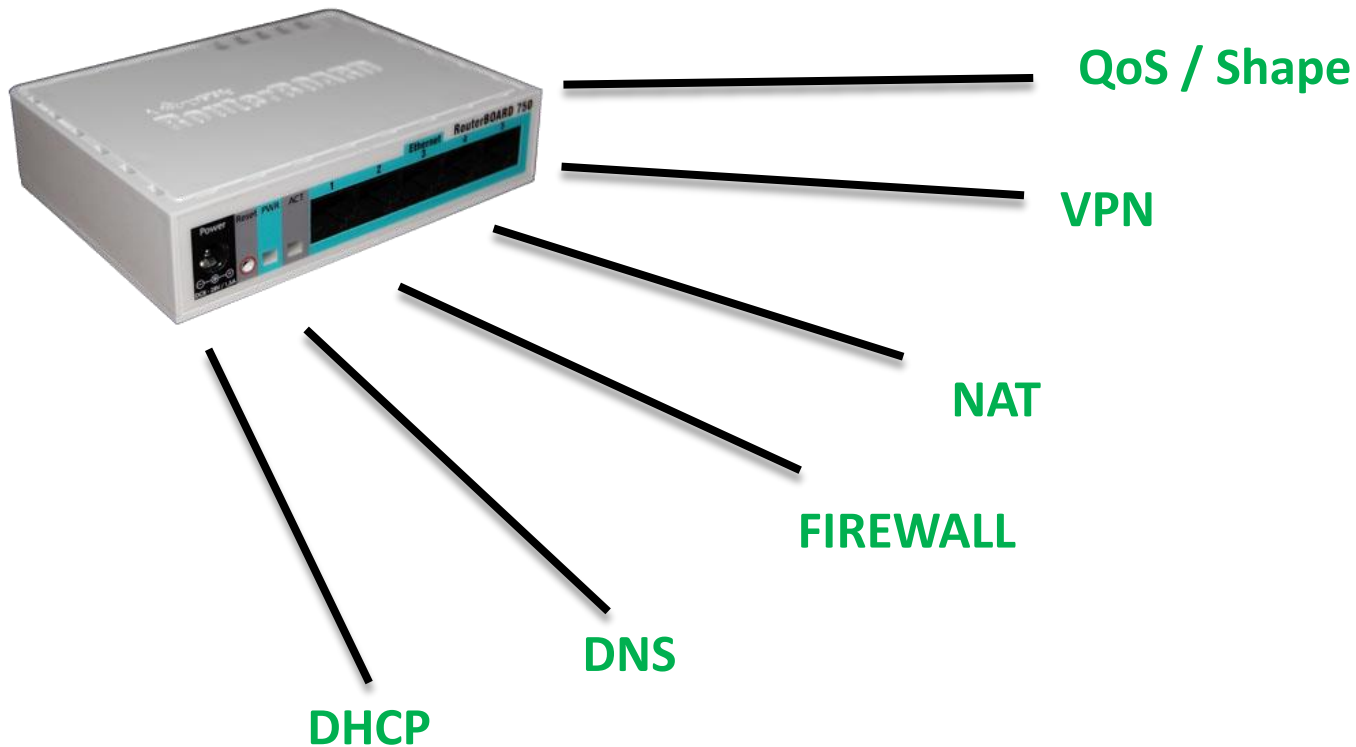
Sportski Pilot, ronilac i Triatlon amaterski sportista

- ⦿ MTCNA, MTCRE
- ⦿ Network System administrator since 1995
- ⦿ Mikrotik korisnik od 2005, Asterisk korisnik od 2007
- ⦿ Preko 3000 uređaja pod sistemom nadzora
- ⦿ Podrška za više od 2500 korisnika na preko 300 lok.












Šta je MikroTik

- ⦿ Letonski proizvođač mrežne opreme
- ⦿ Proizvodnja i prodaja opreme za bežične mreže i softvera RouterOS
- ⦿ Osnovan 1995. sa namerom da uđe na tržište opreme za bežične mreže
- ⦿ RouterOS + RouterBoard

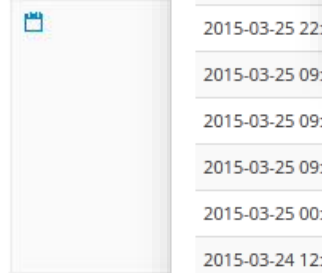
Šta nam omogućava



Nagios, kao primer rešenja za nadgledanje

<input type="checkbox"/>	MIKROTIK-EUROMONTING		UP	10.250.22.254	26/03/2015 11:29:27	20h 50m 56s
<input type="checkbox"/>	MIKROTIK-EU_OFFICE		UP	10.249.10.254	26/03/2015 11:31:40	4d 15h 28m 25s
<input type="checkbox"/>	MIKROTIK-GMS-ALBANIA		DOWN	10.250.15.254	26/03/2015 11:28:47	2h 18m 15s
<input type="checkbox"/>	MIKROTIK-GMS-BOGOSLOVJA		UP	10.250.9.254	26/03/2015 11:29:27	1w 1d 5h 38m 13s
<input type="checkbox"/>	MIKROTIK-GMS-MACEDONIA		UP	10.250.12.254	26/03/2015 11:31:04	1d 12h 25m 57s
<input type="checkbox"/>	MIKROTIK-GOSA-SP		UP	10.241.10.254	26/03/2015 11:31:04	1d 13h 44m 52s
<input type="checkbox"/>	MIKROTIK-GOSA-SP-LINK-HALA		UP	10.241.10.252	26/03/2015 11:31:14	1d 13h 33m 54s
<input type="checkbox"/>	MIKROTIK-GOSA-SP-LINK-KAPIJA		UP	10.241.10.253	26/03/2015 11:29:38	1d 13h 39m 11s
<input type="checkbox"/>	MIKROTIK-GOSA-VP		UP	10.241.13.254	26/03/2015 11:31:24	2d 23h 18m 3s
<input type="checkbox"/>	MIKROTIK-GREGO-SLO		UP	10.241.37.254	26/03/2015 11:30:23	1d 10h 57m 1s
<input type="checkbox"/>	MIKROTIK-HILANDAR-KAKOVO		UP	10.27.11.254	26/03/2015 11:30:24	1d 58m 45s
<input type="checkbox"/>	MIKROTIK-HILANDAR-MANASTIR		UP	10.27.10.254	26/03/2015 11:31:44	1h 27m 1s
<input type="checkbox"/>	MIKROTIK-HILANDAR-MANASTIR-LINK-BIRO		UP	10.27.10.253	26/03/2015 11:31:05	1h 27m 12s
<input type="checkbox"/>	MIKROTIK-HILANDAR-MANASTIR-LINK-MANASTIR		UP	10.27.10.252	26/03/2015 11:28:09	1h 21m 10s
<input type="checkbox"/>	MIKROTIK-HILANDAR-ZADUZZBINA		UP	10.27.6.254	26/03/2015 11:31:14	1w 1d 18h 3m 44s
<input type="checkbox"/>	MIKROTIK-IMEL-GP16		UP	10.10.57.254	26/03/2015 11:31:40	1d 2h 38m 46s
<input type="checkbox"/>	MIKROTIK-IMEL-OHRID	 	DOWN	10.10.20.254	26/03/2015 11:30:37	4M 1w 4d 7h 9m 37s

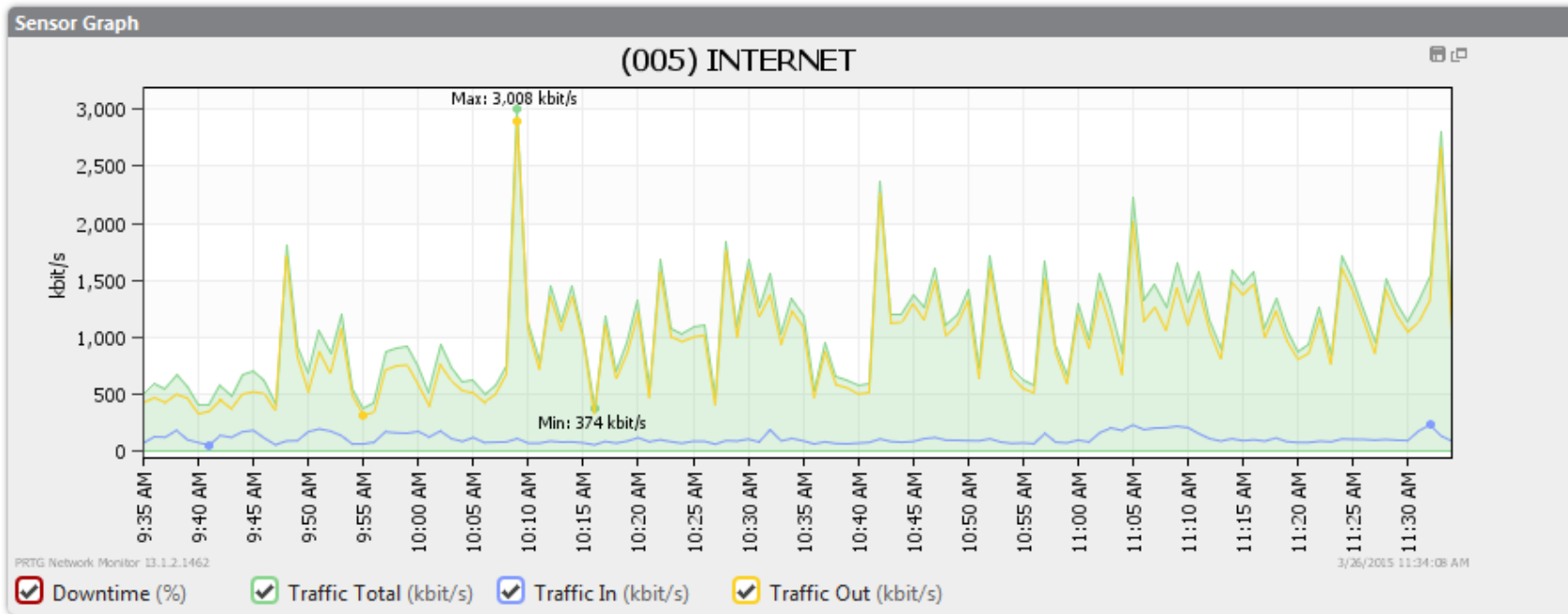
Obaveštavanje preko logging servera



HilandarManastir: login failure for user iphouse from 10.0.1.20 via winbox
HILANDAR-MANASTIR: login failure for user iphouse from 10.0.1.20 via winbox
IPHouseEunetHosting: login failure for user admin from 194.247.192.14 via ssh
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IPHouseEunetHosting: login failure for user admin from 194.247.192.14 via ssh

2015-03-25 22:4		
2015-03-25 22:4		
2015-03-25 09:09:50.227	IPHouseEunetHosting	IPHouseEunetHosting: login failure for user admin from 194.247.192.14 via ssh
2015-03-25 09:06:49.472	IPHouseEunetHosting	IPHouseEunetHosting: login failure for user admin from 194.247.192.14 via ssh
2015-03-25 09:06:38.775	IPHouseEunetHosting	IPHouseEunetHosting: login failure for user admin from 194.247.192.14 via ssh
2015-03-25 00:30:53.420	EuOffice	EuOffice: login failure for user anonymous from 78.34.223.46 via ftp
2015-03-24 12:50:46.535	mzriz-Nikola	mtik: login failure for user admin from 10.0.1.74 via winbox
2015-03-24 12:31:16.657	mzriz-Nikola	mtik: login failure for user admin via winbox
2015-03-24 12:17:07.198	mzriz-Nikola	mtik: login failure for user admin from 10.0.1.72 via winbox

SNMP nadgledanje





FireWall

Markiranje paketa

MAC filtering

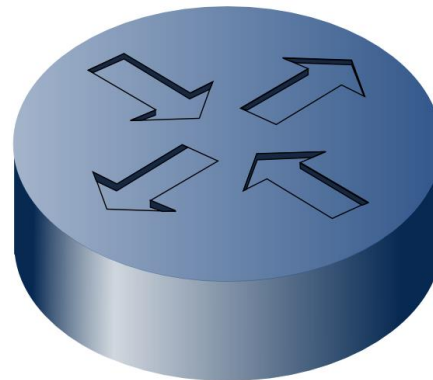
Address listing

Potpuna kontrola
saobraćaja

Routing

BGP

OSPF



Interface
Routing

Conditional
routing



VPN

oVPN

IPSEC

L2TP

PPTP

Speed Limit

Priority

Traffic Shape

Quality of Service



Zašto koristiti Mikrotik

**Cenovno
prihvatljiv**

**Bogata Wiki
podrška**

Pouzdan i siguran

**Korisnički
orjentisan**

**Ruter OS najviše
klase**