

CLOUD HOSTED ROUTER ПО ЦЕНЕ IP-АДРЕСА

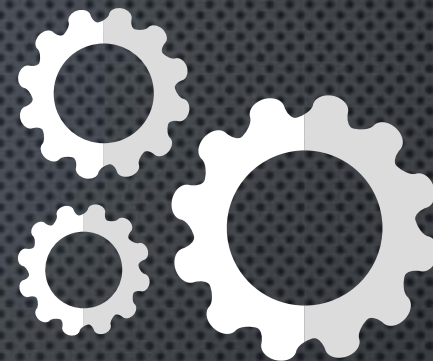
РАЗМЕЩЕНИЕ ОБЛАЧНОГО РОУТЕРА MIKROTIK НА ВИРТУАЛЬНОМ СЕРВЕРЕ
С ПРЯМЫМ IP-АДРЕСОМ ПО ЦЕНЕ НИЖЕ ЦЕНЫ ПРЯМОГО IP-АДРЕСА



ДМИТРИЙ ПИЧУЛИН

DEEM@DEEM.RU

ТРИ ЖЕЛАНИЯ



- ХОЧЕТСЯ ОБЛАЧНОГО РОУТЕРА В ОБЛАКЕ
- И ПРЯМОЙ IP-АДРЕС
- НО НЕ МЕНЕЕ IPV4
- И ЧТОБ ГИГАБИТ
- НО НЕ МЕНЕЕ 100 МЕГАБИТ
- И ЧТОБ БЕСПЛАТНО
- НО НЕ БОЛЕЕ 100 РУБЛЕЙ В МЕСЯЦ



В ПОИСКАХ СЧАСТЬЯ



- ИЩЕМ ПРЕДЛОЖЕНИЯ ВИРТУАЛЬНЫХ СЕРВЕРОВ
- НАМ НУЖНА АППАРАТНАЯ ВИРТУАЛИЗАЦИЯ — KVM И АНАЛОГИ
- CHR НА AMAZON — МИНИМУМ ~300 РУБЛЕЙ В МЕСЯЦ
- ВАРИАНТЫ С ЦЕНОЙ МЕНЕЕ 100 РУБЛЕЙ В МЕСЯЦ СУЩЕСТВУЮТ
- ЭТО ТАК НАЗЫВАЕМЫЕ «ПРОМО» ТАРИФЫ
- ТЕХПОДДЕРЖКА НА ПОДОБНЫХ ТАРИФАХ НЕ ОКАЗЫВАЕТСЯ
- ДОПОЛНИТЕЛЬНЫЕ УСЛУГИ ОТСУТСТВУЮТ
- ПРЕДЛОЖЕНИЯ ОГРАНИЧЕНЫ!

ЗАРЯЖАЕМ CHR 9000



- ПОКУПАЕМ СЕРВЕР, ВХОДИМ КАК ROOT
- ОПРЕДЕЛЯЕМ ПУТЬ УСТАНОВКИ

```
root@kvm:~# df
Filesystem      1K-blocks  Used Available Use% Mounted on
/dev/vda6       19414300 966628 17438420  6% /
udev            10240      0      10240  0% /dev
tmpfs           75436     4412   71024  6% /run
tmpfs           188580      0   188580  0% /dev/shm
tmpfs           5120       0      5120  0% /run/lock
tmpfs           188580      0   188580  0% /sys/fs/cgroup
/dev/vda1       93207     31953  56442  37% /boot
```

- ВЫБИРАЕМ ВЕРСИЮ CHR

Cloud Hosted Router ?

	6.34.6 (Bugfix only)	6.37 (Current)	5.26 (Legacy)	6.37rc42 (Release candidate)
Images	vmdk, vhdx, vdi, img			
The Dude client	↓	-	-	-
The Dude server	↓	↓	-	↓
VMDK image	↓	↓	-	↓
VHDX image	↓	↓	-	↓
VDI image	↓	↓	-	↓
Raw disk image	↓	↓	-	↓
Extra packages	↓	↓	-	↓
Changelog	📄	📄	-	📄
MD5	Σ	Σ	-	Σ



ВСЁ ЕЩЁ ЗАРЯЖАЕМ



- СКРИПТ УСТАНОВКИ: [GIST.GITHUB.COM/DEEMRU/CHR-INSTALL](https://gist.github.com/deemru/chr-install)

GitHub Gist Search... All gists GitHub New gist

deemru / chr-install.md Created a day ago Edit Delete Star 0

Code Revisions 1 Embed <script src="https://gist..." Download ZIP

Cloud Hosted Router god mode installation

chr-install.md Raw

Внимание: опасный скрипт! (warning: dangerous script!)

```
CHR_VERSION=6.37
INSTALLPATH=/dev/vda

apt-get update &&
apt-get install -y unzip wget pv &&
wget http://download2.mikrotik.com/routeros/${CHR_VERSION}/chr-${CHR_VERSION}.img.zip &&
unzip chr-${CHR_VERSION}.img.zip &&
echo u > /proc/sysrq-trigger &&
pv chr-${CHR_VERSION}.img | dd of=${INSTALLPATH} &&
reboot

/user set admin password=*****
/ip address add address=A.B.C.D/24 interface=ether1
/ip route add gateway=A.B.C.1
```



УСТАНОВКА В РЕЖИМЕ БОГА



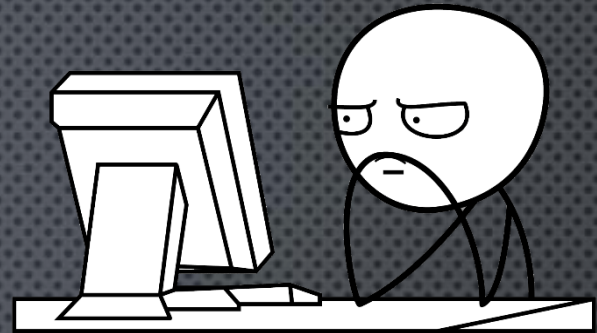
```
Setting up pv (1.5.7-2) ...
Setting up unzip (6.0-16+deb8u2) ...
--2016-09-28 18:17:32-- http://download2.mikrotik.com/routeros/6.37/chr-6.37.img.zip
Resolving download2.mikrotik.com (download2.mikrotik.com)... 54.192.230.167, 54.192.230.219, 54.192.230.65, ...
Connecting to download2.mikrotik.com (download2.mikrotik.com)[54.192.230.167]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 45302690 (43M) [application/zip]
Saving to: `chr-6.37.img.zip'

chr-6.37.img.zip          100%[=====>] 43.20M  14.5MB/s  in 3.0s

2016-09-28 18:17:35 (14.5 MB/s) - `chr-6.37.img.zip' saved [45302690/45302690]

Archive: chr-6.37.img.zip
  inflating: chr-6.37.img
 128MiB 0:00:19 [6.65MiB/s] [=====>] 100%
262144+0 records in
262144+0 records out
134217728 bytes (134 MB) copied, 19.2536 s, 7.0 MB/s
```


BOOTING...



```
SeaBIOS (version seabios-1.7.5-11.el7)
Machine UUID 972b6a76-b107-2e4b-a680-4c56a43e7edf
```

```
iPXE (http://ipxe.org) 00:03.0 C900 PCI2.10 PnP PMM+17F97BE0+17EF7BE0 C900
```

```
Press ESC for boot menu.
```

```
Booting from Hard Disk...
Loading system with initrd
Resizing disk...
Starting...
Generating SSH 2048bit RSA host key...
Generating SSH 1024bit DSA host key...
Starting services...
```

КОНСОЛЬ, ТЫ МНЕ НРА...

```
MikroTik 6.37 (stable)
MikroTik Login: _
```

- ИСПОЛЬЗУЕМ ЛОГИН ADMIN БЕЗ ПАРОЛЯ
- МИНИМАЛЬНАЯ КОНФИГУРАЦИЯ: [GIST.GITHUB.COM/DEEMRU/CHR-INSTALL](https://gist.github.com/DEEMRU/CHR-INSTALL)

```
[admin@MikroTik] > /user set admin password=
[admin@MikroTik] > /ip address add address=91. .94/24 interface=ether1
[admin@MikroTik] > /ip route add gateway=91. .1
[admin@MikroTik] > ping 8.8.8.8
```

SEQ	HOST	SIZE	TTL	TIME	STATUS
0	8.8.8.8	56	57	1ms	

```
sent=1 received=1 packet-loss=0% min-rtt=1ms avg-rtt=1ms max-rtt=1ms
```


WINBOX, Я ЛЮБЛЮ ТЕБЯ!

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)	FP Tx
R ether1	Ethernet	1500		8.0 kbps	47.4 kbps	2	88	

1 item

Resources

Uptime: 1d 06:48:12 [OK]

Free Memory: 326.8 MiB [PCI]

Total Memory: 347.5 MiB [USB]

CPU: Intel [CPU]

CPU Count: 1 [IRQ]

CPU Frequency: 2297 MHz [RPS]

CPU Load: 0% [Hardware]

Free HDD Space: 9.7 GiB

Total HDD Size: 9.7 GiB

Sector Writes Since Reboot: 129 096

Total Sector Writes: 129 097

Architecture Name: x86_64

Board Name: CHR

Version: 6.37 (stable)

Build Time: Sep/23/2016 08:20:01

Package List

Check For Updates | Enable | Disable | Uninstall | Unschedule | Downgrade | Check Installation | Find

Name	Version	Build Time	Scheduled
dude	6.37	Sep/23/2016 08:20:01	
routers-x86	6.37	Sep/23/2016 08:20:01	
advanced-t...	6.37	Sep/23/2016 08:20:01	
dhcp	6.37	Sep/23/2016 08:20:01	
hotspot	6.37	Sep/23/2016 08:20:01	
ipv6	6.37	Sep/23/2016 08:20:01	
mpls	6.37	Sep/23/2016 08:20:01	
ppp	6.37	Sep/23/2016 08:20:01	
routing	6.37	Sep/23/2016 08:20:01	
security	6.37	Sep/23/2016 08:20:01	
system	6.37	Sep/23/2016 08:20:01	
ups	6.37	Sep/23/2016 08:20:01	
wireless	6.37	Sep/23/2016 08:20:01	

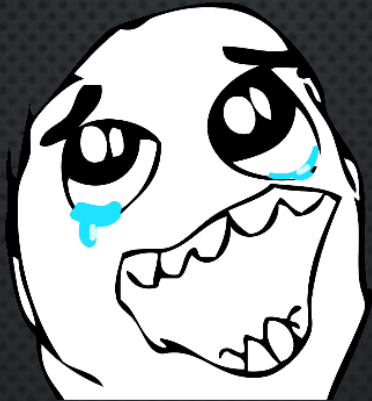
13 items

Check Installation

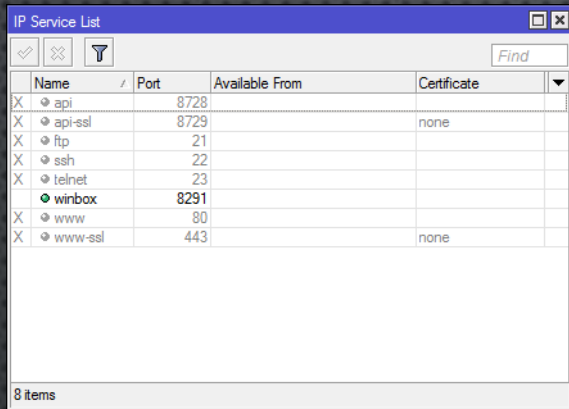
Status: installation is ok [Start]

[Stop]

[Close]

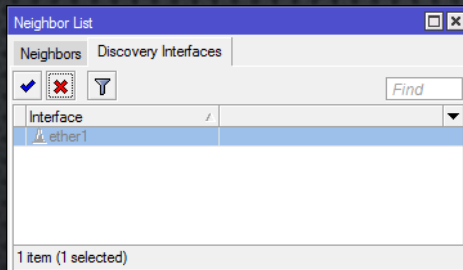


РУССКИЕ ХАКЕРЫ НЕ ДРЕМЛЮТ



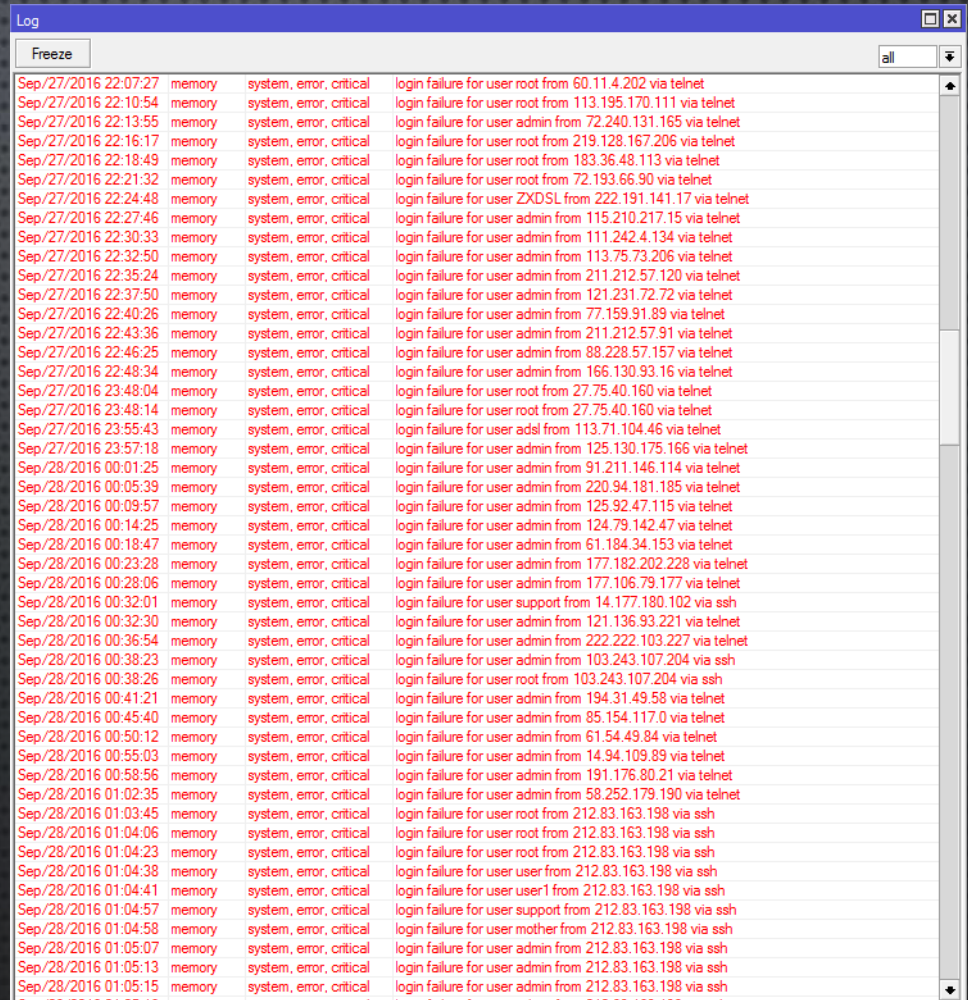
Name	Port	Available From	Certificate
api	8728		
api-ssl	8729		none
ftp	21		
ssh	22		
telnet	23		
winbox	8291		
www	80		
www-ssl	443		none

8 items



Interface
ether1

1 item (1 selected)



Time	Source	Severity	Message
Sep/27/2016 22:07:27	memory	system, error, critical	login failure for user root from 60.11.4.202 via telnet
Sep/27/2016 22:10:54	memory	system, error, critical	login failure for user root from 113.195.170.111 via telnet
Sep/27/2016 22:13:55	memory	system, error, critical	login failure for user admin from 72.240.131.165 via telnet
Sep/27/2016 22:16:17	memory	system, error, critical	login failure for user root from 219.128.167.206 via telnet
Sep/27/2016 22:18:49	memory	system, error, critical	login failure for user root from 183.36.48.113 via telnet
Sep/27/2016 22:21:32	memory	system, error, critical	login failure for user root from 72.193.66.90 via telnet
Sep/27/2016 22:24:48	memory	system, error, critical	login failure for user ZXDSL from 222.191.141.17 via telnet
Sep/27/2016 22:27:46	memory	system, error, critical	login failure for user admin from 115.210.217.15 via telnet
Sep/27/2016 22:30:33	memory	system, error, critical	login failure for user admin from 111.242.4.134 via telnet
Sep/27/2016 22:32:50	memory	system, error, critical	login failure for user admin from 113.75.73.206 via telnet
Sep/27/2016 22:35:24	memory	system, error, critical	login failure for user admin from 211.212.57.120 via telnet
Sep/27/2016 22:37:50	memory	system, error, critical	login failure for user admin from 121.231.72.72 via telnet
Sep/27/2016 22:40:26	memory	system, error, critical	login failure for user admin from 77.159.91.89 via telnet
Sep/27/2016 22:43:36	memory	system, error, critical	login failure for user admin from 211.212.57.91 via telnet
Sep/27/2016 22:46:25	memory	system, error, critical	login failure for user admin from 88.228.57.157 via telnet
Sep/27/2016 22:48:34	memory	system, error, critical	login failure for user admin from 166.130.93.16 via telnet
Sep/27/2016 23:48:04	memory	system, error, critical	login failure for user root from 27.75.40.160 via telnet
Sep/27/2016 23:48:14	memory	system, error, critical	login failure for user root from 27.75.40.160 via telnet
Sep/27/2016 23:55:43	memory	system, error, critical	login failure for user adsl from 113.71.104.46 via telnet
Sep/27/2016 23:57:18	memory	system, error, critical	login failure for user admin from 125.130.175.166 via telnet
Sep/28/2016 00:01:25	memory	system, error, critical	login failure for user admin from 91.211.146.114 via telnet
Sep/28/2016 00:05:39	memory	system, error, critical	login failure for user admin from 220.94.181.185 via telnet
Sep/28/2016 00:09:57	memory	system, error, critical	login failure for user admin from 125.92.47.115 via telnet
Sep/28/2016 00:14:25	memory	system, error, critical	login failure for user admin from 124.79.142.47 via telnet
Sep/28/2016 00:18:47	memory	system, error, critical	login failure for user admin from 61.184.34.153 via telnet
Sep/28/2016 00:23:28	memory	system, error, critical	login failure for user admin from 177.182.202.228 via telnet
Sep/28/2016 00:28:06	memory	system, error, critical	login failure for user admin from 177.106.79.177 via telnet
Sep/28/2016 00:32:01	memory	system, error, critical	login failure for user support from 14.177.180.102 via ssh
Sep/28/2016 00:32:30	memory	system, error, critical	login failure for user admin from 121.136.93.221 via telnet
Sep/28/2016 00:36:54	memory	system, error, critical	login failure for user admin from 222.222.103.227 via telnet
Sep/28/2016 00:38:23	memory	system, error, critical	login failure for user admin from 103.243.107.204 via ssh
Sep/28/2016 00:38:26	memory	system, error, critical	login failure for user root from 103.243.107.204 via ssh
Sep/28/2016 00:41:21	memory	system, error, critical	login failure for user admin from 194.31.49.58 via telnet
Sep/28/2016 00:45:40	memory	system, error, critical	login failure for user admin from 85.154.117.0 via telnet
Sep/28/2016 00:50:12	memory	system, error, critical	login failure for user admin from 61.54.49.84 via telnet
Sep/28/2016 00:55:03	memory	system, error, critical	login failure for user admin from 14.94.109.89 via telnet
Sep/28/2016 00:58:56	memory	system, error, critical	login failure for user admin from 191.176.80.21 via telnet
Sep/28/2016 01:02:35	memory	system, error, critical	login failure for user admin from 58.252.179.190 via telnet
Sep/28/2016 01:03:45	memory	system, error, critical	login failure for user root from 212.83.163.198 via ssh
Sep/28/2016 01:04:06	memory	system, error, critical	login failure for user root from 212.83.163.198 via ssh
Sep/28/2016 01:04:23	memory	system, error, critical	login failure for user root from 212.83.163.198 via ssh
Sep/28/2016 01:04:38	memory	system, error, critical	login failure for user user from 212.83.163.198 via ssh
Sep/28/2016 01:04:41	memory	system, error, critical	login failure for user user1 from 212.83.163.198 via ssh
Sep/28/2016 01:04:57	memory	system, error, critical	login failure for user support from 212.83.163.198 via ssh
Sep/28/2016 01:04:58	memory	system, error, critical	login failure for user mother from 212.83.163.198 via ssh
Sep/28/2016 01:05:07	memory	system, error, critical	login failure for user admin from 212.83.163.198 via ssh
Sep/28/2016 01:05:13	memory	system, error, critical	login failure for user admin from 212.83.163.198 via ssh
Sep/28/2016 01:05:15	memory	system, error, critical	login failure for user admin from 212.83.163.198 via ssh

МИКРОФОН ФОНИТ



Torch (Running)

- Basic
Interface: ether1
Entry Timeout: 00:00:03 s

- Collect
 Src. Address
 Dst. Address
 MAC Protocol
 Protocol
 DSCP

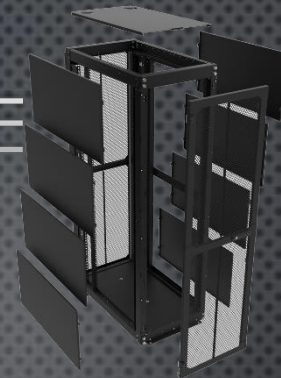
- Filters
Src. Address: 0.0.0.0/0
Dst. Address: 0.0.0.0/0
Src. Address6: ::/0
Dst. Address6: ::/0
MAC Protocol: all
Protocol: any
Port: any
VLAN Id: any
DSCP: any

Eth. Pr...	Protocol	Src.	Dst.	VLAN Id	DSCP	Tx Rate	Rx Rate	Tx Pack...	Rx Pack...
800 (ip)	6 (tcp)	194.51	91.178			25.0 kbps	6.7 kbps	5	9
800 (ip)	6 (tcp)	169.254.169.254	91.178			592 bps	0 bps	1	0
800 (ip)	17 (udp)	255.255.255.255	0.0.0.0			0 bps	0 bps	0	0
806 (arp)			0.0.0.0			0 bps	47.0 kbps	0	98
86dd (ipv6)	17 (udp)		0.0.0.0			0 bps	4.5 kbps	0	5
86dd (ipv6)	58		0.0.0.0			0 bps	688 bps	0	1
86dd (ipv6)	89 (ospf)		0.0.0.0			0 bps	0 bps	0	0

7 items | Total Tx: 0 bps | Total Rx: 0 bps | Total Tx Packet: 0 | Total Rx Packet: 0

/IP ROUTE ADD DST-ADDRESS=169.254.0.0/16 TYPE=BLACKHOLE

ДИАГОНАЛЬНОЕ ОГОРАЖИВАНИЕ



#	Action	Chain	Src. Address	Dst. Address	Proto...	Src. Port	Dst. Port	In. Inter...	Out. Int...	Bytes	Packets
::: Winbox											
0	✘ drop	input			6 (tcp)		8291			0 B	0
1	☑ add src to address list	input			6 (tcp)		8291			0 B	0
2	☑ add src to address list	input			6 (tcp)		8291			0 B	0
3	☑ add src to address list	input			6 (tcp)					40 B	1
4	☑ accept	input			6 (tcp)		8291			38.6 KB	549

5 items

```
/IP FIREWALL FILTER ADD CHAIN=INPUT CONNECTION-STATE=NEW PROTOCOL=TCP DST-PORT=8291 ACTION=DROP SRC-ADDRESS-  
LIST=WINBOX_3_BLOCK COMMENT=WINBOX
```

```
/IP FIREWALL FILTER ADD CHAIN=INPUT CONNECTION-STATE=NEW PROTOCOL=TCP DST-PORT=8291 ACTION=ADD-SRC-TO-ADDRESS-  
LIST SRC-ADDRESS-LIST=WINBOX_2 ADDRESS-LIST=WINBOX_3_BLOCKED ADDRESS-LIST-TIMEOUT=2W
```

```
/IP FIREWALL FILTER ADD CHAIN=INPUT CONNECTION-STATE=NEW PROTOCOL=TCP DST-PORT=8291 ACTION=ADD-SRC-TO-ADDRESS-  
LIST SRC-ADDRESS-LIST=WINBOX_1 ADDRESS-LIST=WINBOX_2 ADDRESS-LIST-TIMEOUT=1M
```

```
/IP FIREWALL FILTER ADD CHAIN=INPUT CONNECTION-STATE=NEW PROTOCOL=TCP ACTION=ADD-SRC-TO-ADDRESS-LIST ADDRESS-  
LIST=WINBOX_1 ADDRESS-LIST-TIMEOUT=1M
```

```
/IP FIREWALL FILTER ADD CHAIN=INPUT ACTION=ACCEPT PROTOCOL=TCP DST-PORT=8291
```


МІКРОТІК РВЁТ ШАБЛОНЫ



- В CHR НЕТ ОГРАНИЧЕНИЙ НА КОЛИЧЕСТВО ТУННЕЛЕЙ
- В CHR НЕТ ОГРАНИЧЕНИЙ НА КОЛИЧЕСТВО ПОЛЬЗОВАТЕЛЕЙ
- ЛИЦЕНЗИЯ ОГРАНИЧИВАЕТ ТОЛЬКО ИСХОДЯЩУЮ СКОРОСТЬ

CHR LVL 1

License

System ID:

Level:

Next Renewal At:

Deadline At:

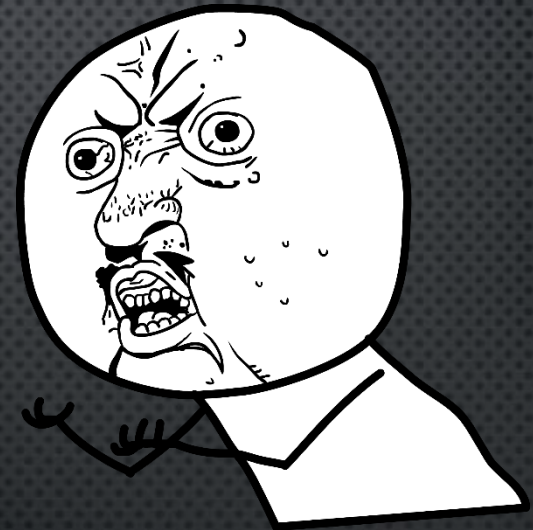
Limited Upgrades

OK

Generate New ID

Renew License

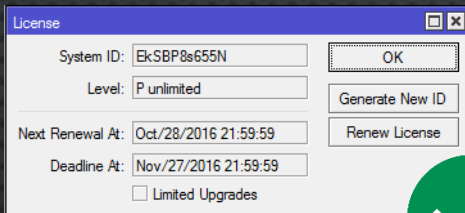
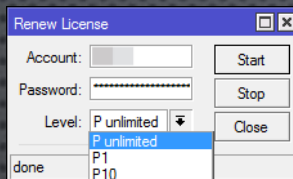
- ИСХОДЯЩАЯ СКОРОСТЬ — 1 МБИТ/С



РАЗ, ДВА, ТРИ ЛИЦЕНЗИИ



- P1, P10, UNLIMITED
- SYSTEM > LICENSE > RENEW LICENSE
- НУЖЕН АККАУНТ: [WWW.MIKROTIK.COM/CLIENT](http://www.mikrotik.com/client)
- ВЫБИРАЕМ ЛЮБОЙ LEVEL, ЖМЁМ START
- ПОЛУЧАЕМ 60 ДНЕЙ TRIAL



ЗА ЧЕЙ СЧЕТ БАНКЕТ?





Routers & Wireless

home software Downloads products support purchase training **account**

Overview Support Logout

Account Notices

 You must approve your account for creditcard purchases »

Prepaid keys available: 7

Generate a NEW software KEY

- » purchase a key
- » take prepaid key (7)
- » make a demo key

For already created software keys

- » all keys
- » search keys
- » request key from another account

Cloud Hosted Router (CHR)

- » all CHR keys
- » CHR orders and invoices

Special invitation for you

 Russia in Moscow, Sep 30 - Oct 1

Account information

- » balance
- » change user information
- » MUM registration history
- » transfer prepaid keys (*available 7*)
- » hardware orders

Training

- » my training sessions
- » my certificates

MikroTik User Meeting

- » my MUM registrations

Support

- » support contact form
- » supout.rif viewer

Other

- » lockpack creator



ХАЛВА, СЭР!



[Back To Main Menu]

User Keys

Show **10** entries

Search:

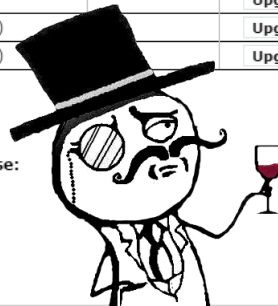
System ID	Issued	Expires	Level	Transfer	Action	Status	Note
EkSBP8s655N	2016-09-28	2016-11-27	P-Unlimited (Trial)		Upgrade	●	
tXOuGLOXBUO	2016-09-28	2016-11-27	P1-Perpetual (Trial)		Upgrade	●	
ZKxH4zpE3eM	2016-09-28	2016-11-27	P-Unlimited (Trial)		Upgrade	●	
W7E/rI6K71P	2016-09-27	2016-11-26	P-Unlimited (Trial)		Upgrade	●	
3+yT4k4+eaL	2016-09-27	2016-11-26	P1-Perpetual (Trial)		Upgrade	●	
7fVeLY9bQOC	2016-09-27	2016-11-26	P10-Perpetual (Trial)		Upgrade	●	
DqaCuzlil4P	2016-09-27	2016-11-26	P-Unlimited (Trial)		Upgrade	●	
GtDKeTJM SXH	2016-09-27	2016-11-26	P-Unlimited (Trial)		Upgrade	●	
8gl0wxXT2/L	2016-09-01	2016-10-31	P1-Perpetual (Trial)		Upgrade	●	
9DWLXD48AsC	2016-09-01	2016-10-31	P1-Perpetual (Trial)		Upgrade	●	

Showing 1 to 10 of 11 entries

Previous **1** 2 Next

You have following prepaid balance keys available to purchase a CHR license:

- P1-Perpetual - 2 keys
- P10-Perpetual - 5 keys



ДЛЯ СОСТОЯТЕЛЬНЫХ ПАРНЕЙ



1 Upgrade system license ?

System ID	Level
9DWLXD48AsC	Select level Select level P1-Perpetual (\$ 45.00) P10-Perpetual (\$ 95.00) P-Unlimited (\$ 250.00)


System 9DWLXD48AsC
Perpetual Trial version

You have following prepaid balance available to purchase a CHR license

P1-Perpetual - 2 keys
P10-Perpetual - 5 keys

Back

2 Payment ?

 Your account is not approved for creditcard purchases!
Go to account authorisation procedure »

You have selected: **P1-Perpetual**
System ID: **9DWLXD48AsC**
Total price: **\$ 45.00**

Pay using deposit (left: \$ 0)

Pay using CC

Pay using PayPal

Pay using Balance key (2)

Back



МГНОВЕННЫЙ ТРАНСФЕР



[Back To Main Menu]

User Keys

Show **10** entries

Search:

System ID	Issued	Expires	Level	Transfer	Action	Status	Note
9DWLXD48AsC	2016-09-29	---	P1-Perpetual	Transfer	Upgrade	●	
EkSBP8s655N	2016-09-28	2016-11-27	P-Unlimited (Trial)		Upgrade	●	
tXOuGLOXBUO	2016-09-28	2016-11-27	P1-Perpetual (Trial)		Upgrade	●	
ZKxH4zpE3eM	2016-09-28	2016-11-27	P-Unlimited (Trial)		Upgrade	●	
W7E/r16K71P	2016-09-27	2016-11-26	P-Unlimited (Trial)		Upgrade	●	
3+yT4k4+eaL	2016-09-27	2016-11-26	P1-Perpetual (Trial)		Upgrade	●	
7fVeLY9bQOC	2016-09-27	2016-11-26	P10-Perpetual (Trial)		Upgrade	●	
DqaCuzliL4P	2016-09-27	2016-11-26	P-Unlimited (Trial)		Upgrade	●	
GtDKeTJMsXH	2016-09-27	2016-11-26	P-Unlimited (Trial)		Upgrade	●	
8gl0wxXt2/L	2016-09-01	2016-10-31	P1-Perpetual (Trial)		Upgrade	●	

Showing 1 to 10 of 11 entries

You have following prepaid balance keys available to purchase a CHR license:

- P1-Perpetual - 1 key
- P10-Perpetual - 5 keys



Select keys for reassignment ?

System ID

9DWLXD48AsC
(P1-Perpetual)

transfer to:

System ID:

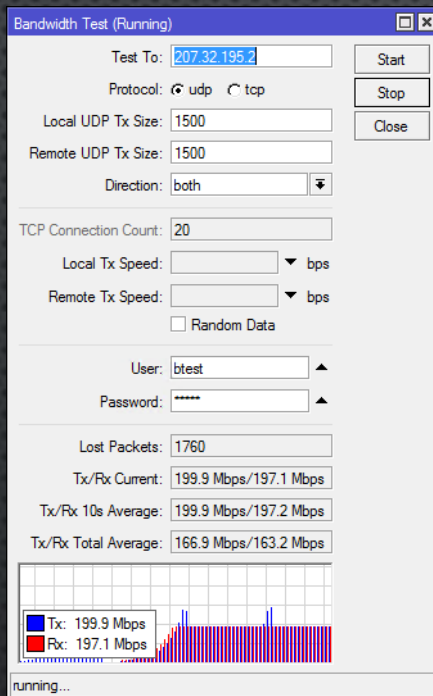
- Select System ID ▾
- Select System ID
 - 0aNcgfYQWE
 - 3+yT4k4+eaL
 - 7fVeLY9bQOC
 - 8gl0wxXt2/L
 - DqaCuzliL4P
 - EkSBP8s655N
 - GtDKeTJMsXH
 - W7E/r16K71P
 - ZKxH4zpE3eM
 - ZuDgtmmK51D
 - tXOuGLOXBUO

Transfer subscription

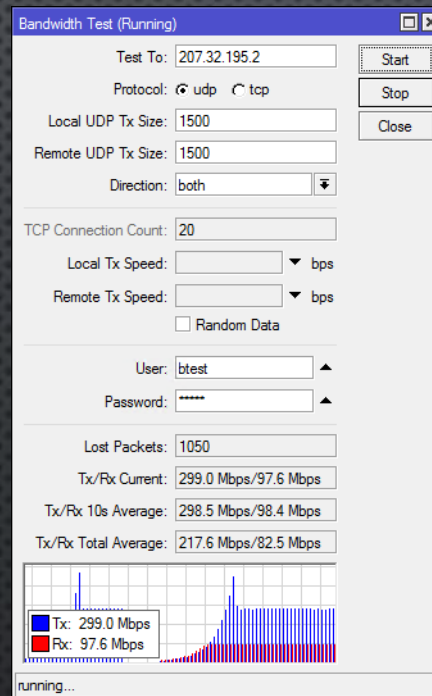
Back

ПРОВЕРКА НА ВШИВОВОСТЬ

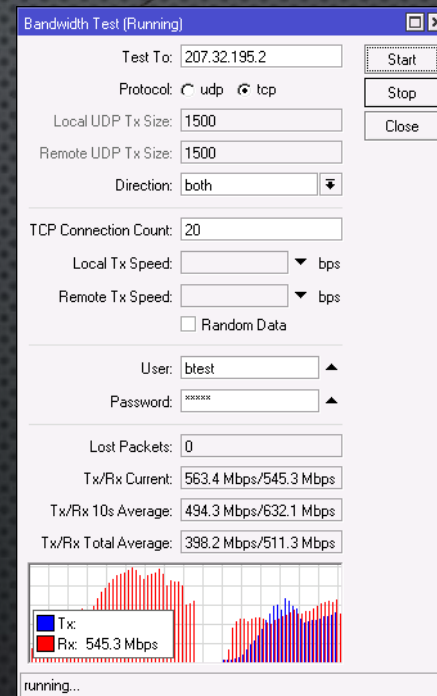
- ЗАМЕРЯЕМ СКОРОСТИ НА ВСЕМИ ЛЮБИМОМ
3.5 GIG - PUBLIC-MIKROTIK-BANDWIDTH-TEST-SERVER



99 ₺



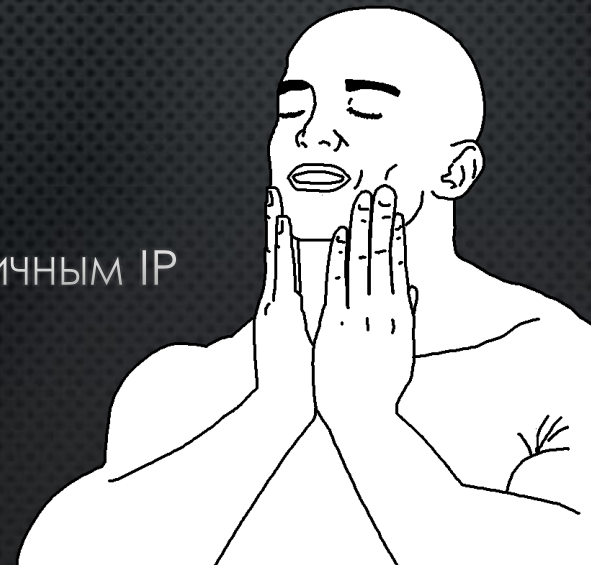
97 ₺



260 400 ₺

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СПАСИБО ЗА ВНИМАНИЕ

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