.2

: **/system script job**

.

name(-   ;   ) -

owner(   ) -

source(;   ) -

```
[admin@MikroTik] system script> job print

 # SCRIPT OWNER STARTED

 0 DelayeD admin dec/27/2003 11:17:33


[admin@MikroTik] system script>
```

```
[admin@MikroTik] system script> job remove 0

[admin@MikroTik] system script> job print
```

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

: **/system script edit**

RouterOS

.

- **Delete** -

- **Ctrl+h, bakspase** -

- **Tab** -

- **Ctrl+b,LeftArrow** –

- **Ctrl+f, RightArrow** -

- **Ctrl+n, DownArrow** -

- **Ctrl+p, UpArrow** -

- **Ctrl+a, Home** -

- **Ctrl+e, End** -

- **Ctrl+y** -

- **Ctrl+k** -

- **Ctrl+u** -   8

- **Ctrl+o** -

- **Ctrl+x** -

edit(   ) -   **name**   -

                                        backspace, **delete**   **Ctrl+k**
            .
     (**Ctrl+y**   ),
                  .   .

                                           VT102   (
"vt102", "linux", "xterm", "rxvt"
VT102).   backspace   delete
            .

                                                                                                    .

                                                          "hello"
"kuku".

: **system**

: Level1

: **system sheduler**

:

:

.

interval(;   0)-   ,
      interval   ,
      ,   .

name(   ) -

run-count(;   ) -   ,
                                                            .

start-date(   ) -

start-time(   ) -

                                                          run-count   .

                                                                                    (   ),
                                                            .

                                                            .

                                        move.

,

.

```
[admin@MikroTik] system script> add name=log-test source=:log message=test

[admin@MikroTik] system script> print

 0 name="log-test" source=":log messgae=test" owner=admin run -count=0

[admin@MikroTik] system script> .. scheduler

[admin@MikroTik] system scheduler> add name=run -1h interval=1h

on-event=log-test

[admin@MikroTik] system scheduler> print


Flags: X - disabled

 # NAME ON-EVENT START-DATE START-TIME INTERVAL RUN-COUNT

 0 run-1h log-test mar/30/2004 06:11:35 1h 0

[admin@MikroTik] system scheduler>
```

"Cust0".   9

64 Kb/s   5   128 Kb/s.

,   .

```
 [admin@MikroTik] queue simple> add name=Cust0 interface=ether1

... dst-address=192.168.0.0/24 limit-at=64000

[admin@MikroTik] queue simple> print

Flags: X - disabled, I - invalid

 0 name="Cust0" target-address=0.0.0.0/0 dst-address=192.168.0.0/24
```

```
   interface=ether1 limit-at=64000 queue=default priority=8 bounded=yes


[admin@MikroTik] queue simple> /system script
[admin@MikroTik] system script> add name=start_limit source={/queue simple set

... Cust0 limit-at=64000}

[admin@MikroTik] system script> add name=stop_limit source={/queue simple set

... Cust0 limit-at=128000}

[admin@MikroTik] system script> print

 0 name="start_limit" source="/queue simple set Cust0 limit -at=64000"

 owner=admin run-count=0


 1 name="stop_limit" source="/queue simple set Cust0 limit -at=128000"

 owner=admin run-count=0


[admin@MikroTik] system script> .. scheduler

[admin@MikroTik] system scheduler> add interval=24h name="set -64k"

... start-time=9:00:00 on-event=start_limit

[admin@MikroTik] system scheduler> add interval=24h name="set -128k"

... start-time=17:00:00 on-event=stop_limit

[admin@MikroTik] system scheduler> print

Flags: X - disabled

 # NAME ON-EVENT START-DATE START-TIME INTERVAL RUN-COUNT

 0 set-64k start... oct/30/2008 09:00:00 1d 0

 1 set-128k stop_... oct/30/2008 17:00:00 1d 0

[admin@MikroTik] system scheduler>
```

e-mail.

```
[admin@MikroTik] system script> add name=e -backup source={/system backup

{... save name=email; /tool e-mail send to="root@host.com" subject=([/system

{... identity get name] . " Backup") file=email.backup}

[admin@MikroTik] system script> print

  0 name="e-backup" source="/system backup save name=ema... owner=admin<br /><br />   run-
count=0<br /><br />  <br /><br />[admin@MikroTik] system script> .. scheduler<br /><br
/>[admin@MikroTik] system scheduler> add interval=7d name="email -backup"

... on-event=e-backup

[admin@MikroTik] system scheduler> print

Flags: X - disabled

 # NAME ON-EVENT START-DATE START-TIME INTERVAL RUN-COUNT

 0 email-... e-backup oct/30/2008 15:19:28 7d 1

[admin@MikroTik] system scheduler>
```

e-mail,   e-mail   SMTP
FROM: .

```
[admin@MikroTik] tool e-mail> set server=159.148.147.198 from=SysAdmin@host.com

[admin@MikroTik] tool e-mail> print

 server: 159.148.147.198

 from: SysAdmin@host.com

[admin@MikroTik] tool e-mail>
```

'x'   .

```
[admin@MikroTik] system script> add name=enable -x source={/system scheduler

{... enable x}

[admin@MikroTik] system script> add name=disable -x source={/system scheduler

{... disable x}

[admin@MikroTik] system script> add name=log -x source={:log message=x}

[admin@MikroTik] system script> .. scheduler

[admin@MikroTik] system scheduler> add name=x -up start-time=00:00:00

... interval=24h on-event=enable-x

[admin@MikroTik] system scheduler> add name=x -down start-time=12:00:00

... interval=24h on-event=disable-x

[admin@MikroTik] system scheduler> add name=x start -time=00:00:00 interval=1h

... on-event=log-x

[admin@MikroTik] system scheduler> print

Flags: X - disabled

 # NAME ON-EVENT START-DATE START-TIME INTERVAL RUN-COUNT

 0 x-up enable-x oct/30/2008 00:00:00 1d 0

 1 x-down disab... oct/30/2008 12:00:00 1d 0

 2 x log-x oct/30/2008 00:00:00 1h 0

[admin@MikroTik] system scheduler>
```

: advanced-tools

: Level1

: **/tool netwatch**

: none

:

ICMP   .

IP   ,   .

down-script(   ) -
                    unknown   **up**   **down**

host(IP   ;   : **0.0.0.0**) - IP   .

interval(;   **1s**) -   ICMP   .
                                                                                      ,
                                                          .

since(:   ) -   ,
          .

status(: up | down| unknown) -   .

- **up** -   (   )

- **down** -   (   )

- **unknown** -

                                                          /

timeout(;   : **1s**) -   .
                                      ,   (**down**)

up-script(   ) -
                unknown   **down**   **up**

                                          gw_1   gw_2

            :

```
[admin@MikroTik] system script> add name=gw_1 source={/ip route set

{... [/ip route find dst 0.0.0.0] gateway 10.0.0.1}

[admin@MikroTik] system script> add name=gw_2 source={/ip route set

{.. [/ip route find dst 0.0.0.0] gateway 10.0.0.217}

[admin@MikroTik] system script> /tool netwatch

[admin@MikroTik] tool netwatch> add host=10.0.0.217 interval=10s timeout=998ms

... up-script=gw_2 down-script=gw_1

[admin@MikroTik] tool netwatch> print

Flags: X - disabled

 # HOST TIMEOUT INTERVAL STATUS

 0 10.0.0.217 997ms 10s up

[admin@MikroTik] tool netwatch> print detail

Flags: X - disabled

 0 host=10.0.0.217 timeout=997ms interval=10s since=feb/27/2003 14:01:03

 status=up up-script=gw_2 down-script=gw_1



[admin@MikroTik] tool netwatch>
```

, .

, ,

.

? . "gw_2"

up

:

```
[admin@MikroTik] > /ip route set [/ip route find dst 0.0.0.0] gateway 10.0.0.217
```

/ip route find dst 0.0.0.0   **dst-address**   0.0.0.0.   .

/ip route set

10.0.0.217

"gw_1"   **down**.

.

```
[admin@MikroTik] > /ip route set [/ip route find dst 0.0.0.0] gateway 10.0.0.1
```

10.0.0.217   .

,   e -mail

10.0.0.25   .

```
[admin@MikroTik] system script> add name=e -down source={/tool e-mail send

{... from="rieks@mt.lv" server="159.148.147.198" body="Router down"

{... subject="Router at second floor is down" to="rieks@latnet.lv"}

[admin@MikroTik] system script> add name=e-up source={/tool e-mail send

{... from="rieks@mt.lv" server="159.148.147.198" body="Router up"

{.. subject="Router at second floor is up" to="rieks@latnet.lv"}

[admin@MikroTik] system script>

[admin@MikroTik] system script> /tool n etwatch
```

```
[admin@MikroTik] system netwatch> add host=10.0.0.215 timeout=999ms

... interval=20s up-script=e-up down-script=e-down

[admin@MikroTik] tool netwatch> print detail

Flags: X - disabled

  0 host=10.0.0.215 timeout=998ms interval=20s since=feb/2 7/2003 14:15:36

   status=up up-script=e-up down-script=e-down


[admin@MikroTik] tool netwatch>
```

: **advanced-tools**

: Level1

: **/tool-traffic monitor**

C   :

                           :

                           .

                               (

                                                                    ),

        ,

                                        .

C

interface(   ) -

name(   ) -

on-event(   ) -   .   **/system script**

threshold(;   :**0**) -

traffic(| ;   :**transmitted**(   )) -

- **transmitted -**

- **received -**

triger(| | ;   :   ) -

- **above** -   ,

- **always** -   **above**   **below**

- **below** -   ,

ether2,

15kbs   ether1   12kbs
ether1.

[admin@MikroTik] system script> add name=eth -up source={/interface enable ether2}

[admin@MikroTik] system script> add name=eth -down source={/interface disable

{... ether2}

[admin@MikroTik] system script> /tool traffic -monitor

```
[admin@MikroTik] tool traffic-monitor> add name=turn_on interface=ether1

... on-event=eth-up threshold=15000 trigger=above traffic=received

[admin@MikroTik] tool traffic-monitor> add name=turn_off interface=ether1

... on-event=eth-down threshold=12000 trigger=below traffic=received

[admin@MikroTik] tool traffic-monitor> print

Flags: X - disabled, I - invalid

 # NAME INTERFACE TRAFFIC TRIGGER THRESHOLD ON -EVENT

 0 turn_on ether1 received above 15000 eth-up

 1 turn_off ether1 received below 12000 eth-down

[admin@MikroTik] tool traffic-monitor>
```

Sigwatch(**)**
         : **advanced-tools**

        : Level1

       : **/tools sigwatch**
          :

          :

Sigwatch

count(:   ) -   .

log(| ;   **no**) -   -of-sigwatch-item:
[high | low]   System-info   sigwatch
name( ) -   sigwatch

on-condition(on | off | change;   : **on**) -

- **on** - high

- **off** - low

- - .
,

port(   ) -

script(   ) -

signal(dtr | rts | cts | dcd | ri | dsr;   : **rts**) -   (
)

- **dtr** -   (4)

- **rts** -   (7)

- **cts** -   (8)

- **dcd** -   (1)

- **ri** -   (9)

- **dsr** -   (6)

state(;   ) -

                                                                                    /system script

             .

                                                                   sigwatch

                        serial1   cts   .

[admin@10.179] tool sigwatch> pr

Flags: X - disabled

  # NAME PORT SIGNAL ON-CONDITION LOG

  0 test serial1 cts change no

[admin@MikroTik] tool sigwatch>

                              print detail interval=1s,
               .   **state**
                                            on,   **off.**

[admin@MikroTik] tool sigwatch> print detail

Flags: X - disabled

```
  0 name="test" port=serial1 signal=cts on -condition=change log=no script=""

  count=1 state=on


[admin@MikroTik] tool sigwatch> print detail

Flags: X - disabled

  0 name="test" port=serial1 signal=cts on -condition=change log=no script=""

  count=1 state=on


[admin@MikroTik] tool sigwatch> print detail

Flags: X - disabled

  0 name="test" port=serial1 signal=cts on -condition=change log=no script=""

  count=2 state=off


[admin@MikroTik] tool sigwatch> print detail

Flags: X - disabled

  0 name="test" port=serial1 signal=cts on -condition=change log=no script=""

  count=2 state=off


[admin@MikroTik] tool sigwatch>
```

port

.

```
[admin@MikroTik] port> print stats

 0 name="serial0" line-state=dtr,rts
```

```
 1 name="serial1" line-state=dtr,rts

[admin@MikroTik] port>
```

```
[admin@MikroTik] port> print stats

 0 name="serial0" line-state=dtr,rts



 1 name="serial1" line-state=dtr,rts,cts

[admin@MikroTik] port>
```

dtr,rts   **cts**

                                                                                    on-
condition
off

```
[admin@10.MikroTik] tool sigwatch> pr detail

Flags: X - disabled

 0 name="cts_rest" port=serial1 signal=cts on-condition=off log=no

  script=/system shutdown count=0 state=on

[admin@10.MikroTik] tool sigwatch>
```

:
                              .
              .   .
        .