

Configuration Management

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General Information

Summary

This manual introduces you with commands which are used to perform the following functions:

- system backup
- system restore from a backup
- configuration export
- configuration import
- system configuration reset

Description

The configuration backup can be used for backing up MikroTik RouterOS configuration to a binary file, which can be stored on the router or downloaded from it using FTP. The configuration restore can be used for restoring the router's configuration from a backup file.

The configuration export can be used for dumping out MikroTik RouterOS configuration to the console screen or to a text (script) file, which can be downloaded from the router using FTP. The configuration import can be used to import the router configuration script from a text file.

System reset command is used to erase all configuration on the router. Before doing that, it might be useful to backup the router's configuration.

Note! In order to be sure that the backup will not fail, **system backup load** command must be used on the same computer with the same hardware where **system backup save** was done.

System Backup

Home menu level: */system backup*

Description

The **save** command is used to store the entire router configuration in a backup file. The file is shown in the **/file** submenu. It can be downloaded via ftp to keep it as a backup for your configuration.

To restore the system configuration, for example, after a **/system reset**, it is possible to upload that file via ftp and load that backup file using **load** command in **/system backup** submenu.

Command Description

load name=[filename] - Load configuration backup from a file

save name=[filename] - Save configuration backup to a file

Example

To save the router configuration to file **test**:

```
[admin@MikroTik] system backup> save name=test
Configuration backup saved
[admin@MikroTik] system backup>
```

To see the files stored on the router:

```
[admin@MikroTik] > file print
# NAME                                TYPE      SIZE      CREATION-TIME
0 test.backup                         backup    12567     sep/08/2004 21:07:50
[admin@MikroTik] >
```

Example

To load the saved backup file **test**:

```
[admin@MikroTik] system backup> load name=test
Restore and reboot? [y/N]: y
...
```

The Export Command

Command name: */export*

Description

The **export** command prints a script that can be used to restore configuration. The command can be invoked at any menu level, and it acts for that menu level and all menu levels below it. If the argument **from** is used, then it is possible to export only specified items. In this case **export** does not descend recursively through the command hierarchy. **export** also has the argument **file**, which allows you to save the script in a file on the router to retrieve it later via FTP.

Command Description

file=[filename] - saves the export to a file

from=[number] - specifies from which item to start to generate the export file

Example

```
[admin@MikroTik] > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#   ADDRESS          NETWORK      BROADCAST    INTERFACE
0   10.1.0.172/24     10.1.0.0    10.1.0.255   bridge1
1   10.5.1.1/24       10.5.1.0    10.5.1.255   ether1
[admin@MikroTik] >
```

To make an export file:

```
[admin@MikroTik] ip address> export file=address
[admin@MikroTik] ip address>
```

To make an export file from only one item:

```
[admin@MikroTik] ip address> export file=address1 from=1
[admin@MikroTik] ip address>
```

To see the files stored on the router:

```
[admin@MikroTik] > file print
# NAME                                TYPE      SIZE      CREATION-TIME
0   address.rsc                        script    315       dec/23/2003 13:21:48
1   address1.rsc                       script    201       dec/23/2003 13:22:57
[admin@MikroTik] >
```

To export the setting on the display use the same command without the **file** argument:

```
[admin@MikroTik] ip address> export from=0,1
# nov/13/2004 13:25:30 by RouterOS 2.9
# software id = MGJ4-MAN
#
/ ip address
add address=10.1.0.172/24 network=10.1.0.0 broadcast=10.1.0.255 \
    interface=bridge1 comment="" disabled=no
add address=10.5.1.1/24 network=10.5.1.0 broadcast=10.5.1.255 \
    interface=ether1 comment="" disabled=no
[admin@MikroTik] ip address>
```

The Import Command

Command name: */import*

Description

The root level command **/import [file_name]** restores the exported information from the specified file. This is used to restore configuration or part of it after a **/system reset** event or anything that causes configuration data loss.

Note that it is impossible to import the whole router configuration using this feature. It can only be used to import a part of configuration (for example, firewall rules) in order to spare you some typing.

Command Description

file=[filename] - loads the exported configuration from a file to router

Example

To load the saved export file use the following command:

```
[admin@MikroTik] > import address.rsc
Opening script file address.rsc
Script file loaded successfully
[admin@MikroTik] >
```

Configuration Reset

Command name: **/system reset**

Description

The command clears all configuration of the router and sets it to the default including the login name and password ('admin' and no password), IP addresses and other configuration is erased, interfaces will become disabled. After the **reset** command router will reboot.

Command Description

reset - erases router's configuration

Notes

If the router has been installed using netinstall and had a script specified as the initial configuration, the reset command executes this script after purging the configuration. To stop it doing so, you will have to reinstall the router.

Example

```
[admin@MikroTik] > system reset
Dangerous! Reset anyway? [y/N]: n
action cancelled
[admin@MikroTik] >
```