

# 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     aug/12/2002 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

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

**file**=[filename] - saves the export to a 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
# dec/23/2003 13:25:30 by RouterOS 2.8beta12
# 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

Home menu level: */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

Home menu level: */system*

## 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.

## Property Description

**keep-user-config** (yes | no; default: **no**) - whether to keep entries in 'user' list or not

## Command Description

**reset** - erases router's configuration

## Example

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