Fetch

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Summary

Fetch is one of the console tools in MikroTik RouterOS. It is used to copy files to/from a network device via HTTP, HTTPS, FTP or SFTP. It can also be used to send POST/GET requests and send any kind of data to a remote server. In HTTPS mode by default, no certificate checks are made, setting *check-certificate* to *yes* enables trust chain validation from the local certificate store (can be used only in HTTPS mode).

Properties

Property	Description
address (string; Default:)	IP address of the device to copy file from.
as-value (set not-set; Default: no t-set)	Store the output in a variable, should be used with the output property.
ascii (yes no; Default: no)	Can be used with FTP and TFTP
certificate (string; Default:)	Certificate that should be used for host verification. Can be used only in HTTPS mode.
check-certificate (yes yes- without-crl no; Default: no)	Enables trust chain validation from local certificate store. <i>yes-without-crl, validates a certificate, not performing CRL check (certificate revocation list).</i> Can be used only in HTTPS mode.
dst-path (string; Default:)	Destination filename and path.
duration (time; Default:)	Time how long fetch should run.
host (string; Default:)	A domain name or virtual domain name (if used on a website, from which you want to copy information). For example, address=wiki.mikrotik.com host=forum.mikrotik.com In this example the resolved ip address is the same (66.228.113.27), but hosts are different.
http-auth-scheme (basic digest; Default: basic)	HTTP authentication scheme
http-method (delete get head post put patch; Default: get)	HTTP method to use
http-data (string; Default:)	The data, that is going to be sent, when using PUT or POST methods. Data limit is 64Kb.
http-header-field (string; Default: * empty*)	List of all header fields and their values, in the form of http-header-field=h1:fff,h2:yyy
http-content-encoding (deflate gzip ; Default: *empty*)	Encodes the payload using gzip or deflate compression and adds a corresponding Content-Encoding header. Usable for HTTP POST and PUT only.
keep-result (yes no; Default: yes)	If yes, creates an input file.
mode (ftp/http/https/sftp/tftp; Default: http)	Choose the protocol of connection - http, https , ftp, sftp or tftp.

output (none file user user-with- headers; Default: file)	Sets where to store the downloaded data. none - do not store downloaded data file - store downloaded data in a file user - store downloaded data in the data variable (variable limit is 64Kb) user-with-headers - store downloaded data and headers in the data variable (variable limit is 64Kb (20Kb for downloaded data, 44Kb for headers))
password (string; Default: anony mous)	Password, which is needed for authentication to the remote device.
port (integer, Default:)	Connection port.
src-address (ip address; Default:)	Source address that is used to establish connection. Can be used only HTTP/S and SFTP modes.
src-path (string; Default:)	Title of the remote file you need to copy.
upload (yes no; Default: no)	Only (S)FTP modes support upload. If enabled then fetch will be used to upload files to a remote server. Requires <i>src-path</i> and <i>dst-path</i> parameters to be set.
url (string; Default:)	URL pointing to file. Can be used instead of address and src-path parameters.
user (string; Default: anonymous)	Username, which is needed for authentication to the remote device.

Configuration Examples

The following example shows how to copy the file with filename "conf.rsc" from a device with ip address 192.168.88.2 by FTP protocol and save it as file with filename "123.rsc". User and password are needed to login into the device.

```
[admin@MikroTik] /tool> fetch address=192.168.88.2 src-path=conf.rsc \
user=admin mode=ftp password=123 dst-path=123.rsc port=21 \
host="" keep-result=yes
```

Example to upload file to another router:

```
[admin@MikroTik] /tool> fetch address=192.168.88.2 src-path=conf.rsc \ user=admin mode=ftp password=123 dst-path=123.rsc upload=yes
```

Another file download example that demonstrates the usage of url property.

Sending information to a remote host

It is possible to use an HTTP POST request to send information to a remote server, that is prepared to accept it. In the following example, we send geographic coordinates to a PHP page:

In this example, the data is uploaded as a file. Important note, since variable data comes from a file, a file can only be in size up to 4KB. This is a limitation of RouterOS variables.

```
/export file=export.rsc

:global data [/file get [/file find name=export.rsc] contents];
:global $url "https://prod-51.westeurope.logic.azure.com:443/workflows/blabla/triggers/manual/paths/invoke....";

/tool fetch mode=https http-method=put http-data=$data url=$url
```

Return value to a variable

It is possible to save the result of the fetch command to a variable. For example, it is possible to trigger a certain action based on the result that an HTTP page returns. You can find a very simple example below that disables **ether2** whenever a PHP page returns "0":