

NAME

ipptool – perform internet printing protocol requests

SYNOPSIS

```
ipptool [ --help ] [ --ippserver filename ] [ --stop-after-include-error ] [ --version ] [ -4 ] [ -6 ] [
-C ] [ -E ] [ -I ] [ -L ] [ -P filename.plist ] [ -S ] [ -T seconds ] [ -V version ] [ -X ] [ -c ] [ -d
name=value ] [ -f filename ] [ -h ] [ -i seconds ] [ -j ] [ -n repeat-count ] [ -q ] [ -t ] [ -v ] printer-uri
testfile [ ... testfile ]
```

DESCRIPTION

ipptool sends IPP requests to the specified *printer-uri* and tests and/or displays the results. Each named *testfile* defines one or more requests, including the expected response status, attributes, and values. Output is either a plain text, formatted text, CSV, or XML report on the standard output, with a non-zero exit status indicating that one or more tests have failed. The *testfile* format is described in **ipptoolfile(5)**.

OPTIONS

The following options are recognized by **ipptool**:

--help

Shows program help.

--ippserver *filename*

Specifies that the test results should be written to the named **ippserver** attributes file.

--stop-after-include-error

Tells **ipptool** to stop if an error occurs in an included file. Normally **ipptool** will continue with subsequent tests after the INCLUDE directive.

--version

Shows the version of **ipptool** being used.

-4 Specifies that **ipptool** must connect to the printer or server using IPv4.

-6 Specifies that **ipptool** must connect to the printer or server using IPv6.

-C Specifies that requests should be sent using the HTTP/1.1 "Transfer-Encoding: chunked" header, which is required for conformance by all versions of IPP. The default is to use "Transfer-Encoding: chunked" for requests with attached files and "Content-Length:" for requests without attached files.

-E Forces TLS encryption when connecting to the server using the HTTP "Upgrade" header.

-I Specifies that **ipptool** will continue past errors.

-L Specifies that requests should be sent using the HTTP/1.0 "Content-Length:" header, which is required for conformance by all versions of IPP. The default is to use "Transfer-Encoding: chunked" for requests with attached files and "Content-Length:" for requests without attached files.

-P *filename.plist*

Specifies that the test results should be written to the named XML (Apple plist) file in addition to the regular test report (**-t**). This option is incompatible with the **-i** (interval) and **-n** (repeat-count) options.

-S Forces (dedicated) TLS encryption when connecting to the server.

-T *seconds*

Specifies a timeout for IPP requests in seconds.

-V *version*

Specifies the default IPP version to use: 1.0, 1.1, 2.0, 2.1, or 2.2. If not specified, version 1.1 is used.

-X Specifies that XML (Apple plist) output is desired instead of the plain text report. This option is incompatible with the **-i** (interval) and **-n** (repeat-count) options.

-c Specifies that CSV (comma-separated values) output is desired instead of the plain text output.

- d** *name=value*
Defines the named variable.
- f** *filename*
Defines the default request filename for tests.
- h** Validate HTTP response headers.
- i** *seconds*
Specifies that the (last) *testfile* should be repeated at the specified interval. This option is incompatible with the **-X** (XML plist output) option.
- j** Specifies that **ipptool** will produce JSON output.
- l** Specifies that plain text output is desired.
- n** *repeat-count*
Specifies that the (last) *testfile* should be repeated the specified number of times. This option is incompatible with the **-X** (XML plist output) option.
- q** Be quiet and produce no output.
- t** Specifies that CUPS test report output is desired instead of the plain text output.
- v** Specifies that all request and response attributes should be output in CUPS test mode (**-t**). This is the default for XML output.

EXIT STATUS

The **ipptool** program returns 0 if all tests were successful and 1 otherwise.

FILES

The following standard files are available:

- color.jpg
- create-printer-subscription.test
- document-a4.pdf
- document-a4.ps
- document-letter.pdf
- document-letter.ps
- get-completed-jobs.test
- get-jobs.test
- get-notifications.test
- get-printer-attributes.test
- get-subscriptions.test
- gray.jpg
- ipp-1.1.test
- ipp-2.0.test
- ipp-2.1.test
- ipp-2.2.test
- ipp-everywhere.test
- onepage-a4.pdf
- onepage-a4.ps
- onepage-letter.pdf
- onepage-letter.ps
- print-job.test
- print-job-deflate.test
- print-job-gzip.test
- testfile.jpg
- testfile.pcl
- testfile.pdf
- testfile.ps

```
testfile.txt
validate-job.test
```

CONFORMING TO

The **ipptool** program is unique to CUPS and conforms to the Internet Printing Protocol up to version 2.2.

EXAMPLES

Get a list of completed jobs for "myprinter":

```
ipptool ipp://localhost/printers/myprinter get-completed-jobs.test
```

Send email notifications to "user@example.com" when "myprinter" changes:

```
ipptool -d recipient=mailto:user@example.com \
ipp://localhost/printers/myprinter create-printer-subscription.test
```

SEE ALSO

ipptoolfile(5), IANA IPP Registry (<https://www.iana.org/assignments/ipp-registrations>), PWG Internet Printing Protocol Workgroup (<https://www.pwg.org/ipp>) RFC 8011 (<https://data-tracker.ietf.org/doc/html/rfc8011>),

COPYRIGHT

Copyright © 2021-2022 by OpenPrinting.