

Docs Overview   Project   Protocols   Releases   Tool  
Who and Why

[curl](#) / [Docs](#) / [Tool](#) / Comparison Table

# Compare curl with other download tools

This comparison only involves entirely free and open source software.

## Related:

[List of Features](#)

[Compare HTTP Libraries](#)

[Compare SSL Libraries](#)

[File a bug about this table](#)

[curl vs wget \[offsite\]](#)

Feature	curl	wget	wget2	pavuk	fetch	lftp	aria2	HTTrack	HTTPie
.netrc	yes	yes	yes	no	yes	yes	yes	no	yes
Bandwidth Limiting	yes	yes	yes	yes	no	yes	yes	yes	no
Commercial support	yes	no	no	no	no	no	no	no	no
DNS-over-HTTPS	yes	no	no	no	no	no	no	no	no
FTP 3rd Party Transfer	no	no	no	no	no	yes	no	no	no
FTP Active Mode	yes	yes	yes	yes	yes	yes	yes	no	no
FTP Connection Re-use	yes	no	no	yes	yes	yes	yes	no	no
FTP Kerberos	yes	no	no	no	no	no	no	no	no
FTP Ranges	yes	no	no	no	no	no	no	no	no
FTP Resume	yes	yes	yes	yes	yes	yes	yes	no	no
FTP Upload	yes	no	no	no	no	yes	no	no	no
FTPS	yes	no	no	yes	no	yes	no	no	no
GOPHER	yes	no	no	yes	no	yes	no	no	no

Feature	curl	wget	wget2	pavuk	fetch	lftp	aria2	HTTrack	HTTPie
GOPHERS	yes	no	no	no	no	no	no	no	no
H2/H3 Happy Eyeballs	yes	no	no	no	no	no	no	no	no
Happy Eyeballs	yes	no	no	no	no	no	no	no	no
HSTS	yes	yes	yes	no	no	no	no	no	no
HTTP alt-svc	yes	no	no	no	no	no	no	no	no
HTTP brotli	yes	no	yes	no	no	no	no	no	no
HTTP Cookies	yes	yes	yes	yes	no	yes	yes	yes	yes
HTTP Digest Auth	yes	yes	yes	yes	yes	no	no	no	yes
HTTP etags	yes	no	no	no	no	no	no	no	no
HTTP gzip	yes	no	yes	yes	no	no	yes	yes	yes
HTTP Multipart POST	yes	no	no	yes	no	no	no	no	no
HTTP Negotiate Auth	yes	no	no	no	no	no	no	no	yes
HTTP NTLM Auth	yes	yes	yes	yes	no	no	no	no	yes
HTTP Persistent Conns	yes	yes	yes	yes	no	yes	yes	no	no
HTTP POST	yes	yes	yes	yes	no	yes	no	no	yes
HTTP POST Chunked	yes	no	no	no	no	no	no	no	no
HTTP Proxy	yes	yes	yes	yes	yes	yes	yes	yes	yes
HTTP PUT	yes	no	no	no	no	yes	no	no	no
HTTP Ranges	yes	no	no	no	no	no	no	no	no
HTTP Redirects	yes	yes	yes	yes	yes	no	yes	no	yes
HTTP Resume	yes	yes	yes	yes	yes	yes	yes	no	yes
HTTP time conditions	yes	yes	yes	no	no	no	no	no	no
HTTP zstd	yes	no	yes	no	no	no	no	no	no
HTTP/1.1	yes	yes	yes	yes	yes	yes	yes	yes	yes
HTTP/2 ALPN	yes	no	yes	no	no	no	no	no	no
HTTP/2 h2c upgrade	yes	no	yes	no	no	no	no	no	no
HTTP/2 with proxy	yes	no	no	no	no	no	no	no	no
HTTP/3	yes	no	no	no	no	no	no	no	no
HTTPS	yes	yes	yes	yes	yes	yes	yes	yes	yes

Feature	curl	wget	wget2	pavuk	fetch	lftp	aria2	HTTrack	HTTPie
HTTPS Proxy	<b>yes</b>	no	no	no	no	no	no	no	no
IDN hostnames	<b>yes</b>	<b>yes</b>	<b>yes</b>	no	no	no	no	no	<b>yes</b>
IMAP	<b>yes</b>	no	no	no	no	no	no	no	no
IPv6	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes*</b>	<b>yes</b>	<b>yes</b>
LDAP	<b>yes</b>	no	no	no	no	no	no	no	no
Metalink	no	<b>yes</b>	<b>yes</b>	no	no	no	<b>yes</b>	no	no
MQTT	<b>yes</b>	no	no	no	no	no	no	no	no
Multilingual Messages	no	<b>yes</b>	<b>yes</b>	<b>yes</b>	no	<b>yes</b>	<b>yes</b>	no	no
Multiple URLs	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	no	<b>yes</b>	no	no
Parallel transfers	<b>yes</b>	no	no	<b>yes</b>	no	<b>yes</b>	<b>yes</b>	<b>yes</b>	no
POP3	<b>yes</b>	no	no	no	no	no	no	no	no
Recursive downloads	no	<b>yes</b>	<b>yes</b>	<b>yes</b>	no	<b>yes</b>	no	<b>yes</b>	no
Retry failed downloads	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	no
RTMP	<b>yes</b>	no	no	no	no	no	no	no	no
RTSP	<b>yes</b>	no	no	no	no	no	no	no	no
Same file multi connect	no	no	<b>yes</b>	no	no	<b>yes</b>	<b>yes</b>	no	no
SCP	<b>yes</b>	no	no	no	no	no	no	no	no
SFTP	<b>yes</b>	no	no	no	no	<b>yes</b>	no	no	no
SMB	<b>yes</b>	no	no	no	no	no	no	no	no
SMTP	<b>yes</b>	no	no	no	no	no	no	no	no
SOCKS proxy	<b>yes</b>	no	no	<b>yes</b>	no	<b>yes</b>	no	no	<b>yes</b>
TELNET	<b>yes</b>	no	no	no	no	no	no	no	no
TFTP	<b>yes</b>	no	no	no	no	no	no	no	no
Tiny Executable	no	no	no	no	<b>yes</b>	no	no	no	no
TLS: BearSSL	<b>yes</b>	no	no	no	no	no	no	no	no
TLS: Client certs	<b>yes</b>	<b>yes</b>	<b>yes</b>	no	no	no	no	no	no
TLS: GnuTLS	<b>yes</b>	<b>yes</b>	<b>yes</b>	no	no	<b>yes</b>	<b>yes</b>	no	<b>yes*</b>
TLS: mbedTLS	<b>yes</b>	no	no	no	no	no	no	no	no
TLS: NSS	<b>yes</b>	no	no	no	no	no	no	no	no
TLS: rustls	<b>yes</b>	no	no	no	no	no	no	no	no

Feature	curl	wget	wget2	pavuk	fetch	lftp	aria2	HTTrack	HTTPIe
TLS: Schannel	<b>yes</b>	no	no	no	no	no	no	no	<b>yes*</b>
TLS: Secure Transport	<b>yes</b>	no	no	no	no	no	no	no	<b>yes*</b>
TLS: Session ID cache	<b>yes</b>	no	<b>yes</b>	no	no	no	no	no	no
TLS: WolfSSL	<b>yes</b>	no	no	no	no	no	no	no	no
Unix domain socket	<b>yes</b>	no	no	no	no	no	no	no	no
URL globbing/sequences	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	no	no	<b>yes</b>	no	no
Username/Password	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>
Windows Port	<b>yes</b>	<b>yes</b>	<b>yes</b>	no	no	no	<b>yes</b>	<b>yes</b>	<b>yes*</b>
WebSocket	<b>yes</b>	no	no	no	no	no	no	no	no
License	MIT	GPL	GPL	GPL	BSD	GPL	GPL	GPL	BSD
Version	8.0.1	1.21	1.99.2	0.9.34	4.7	3.5.0	1.8.3	3.43	1.0.2

The mentioned tools: [wget](#), [wget2](#), [pavuk](#), [lftp](#), [aria2](#), [httrack](#), [HTTPIe](#)

'Fetch' is an integral part of the [FreeBSD](#) operating system.

\* aria2 supports IPv6 only in HTTP(S) download

\* HTTPIe is written in Python + Requests and thus carry their portability and features

Please file [a bug report](#) if this table is incorrect, or tell us other features we should compare!