exp:benchmark

Source file: doc/eng-us/examples/commands/benchmark.md Last changed 2026-11-04
https://doc.exponential.earth/exphelp/viewer/examples/commands/benchmark.md

Measure this installation: page timings over HTTP, A/B between servers, kernel probes, regression check.

Script `bin/php/benchmark.php`, code in `kernel/private/classes/commands/benchmark.php`. Run it from the installation root, as the user the web server runs as:

Shell

```
./console exp:benchmark --help
./console exp:bench --help
php bin/php/benchmark.php --help
```

Options

Option	Value	Help
--base	required	Server to measure (default: https:// and the SiteURL of the siteaccess)
--compare	required	Two or more servers, comma separated, measured back to back (A/B)
--url	required	A URL or path to measure; repeat it for more
--urls-file	required	A file with one URL or path per line (# starts a comment)
--pages	required	How many pages of the menu the default list takes (default 3)
--no-admin		Leave the admin login page out of the default list
--no-search		Leave the search page out of the default list
--search	required	The words the default search page searches for (default: the first word of the first menu page)
--requests	required	Requests per URL and server (default 100)
--runs	required	The same as --requests: measured runs per URL and server
--concurrency	required	Requests at the same time (default 4)
--warmup	required	Unmeasured runs first: requests per URL and server (default 5, at least one per connection), micro: iterations per probe (default 3)
--rounds	required	Split the requests into rounds, alternating the server order (default 2)
--micro		The same as the micro mode
--format	required	Output: table (default), json or csv
--cold		A unique query string on every request, so no response cache answers
--cold-clear		Clear the content view cache once before the run (this installation only)
--insecure		Do not verify TLS certificates (self-signed servers)
--auth	required	HTTP basic auth, user:password (or the EXP_BENCHMARK_AUTH variable)
--header	required	An extra request header, "Name: value"; repeat it for more

Option	Value	Help
`--cookie`	required	A Cookie header to send, e.g. to measure a signed-in page
`--resolve`	required	host:port:address, as curl --resolve, to reach a host at another address
`--http`	required	HTTP version: 1.1 or 2 (default: what curl negotiates)
`--encoding`	required	The Accept-Encoding to send (default gzip; "none" for none)
`--timeout`	required	Seconds per request (default 30)
`--no-keepalive`		A new connection for every request
`--tool`	required	curl (default, built in), ab, wrk or oha when installed
`--duration`	required	Seconds per URL for wrk (default 10)
`--repeat`	required	kernel: runs of every probe (default 20); micro: measured iterations of every probe (default 30)
`--boot-repeat`	required	kernel: new processes for boot and the cold render (default 5)
`--node`	required	kernel: the node to render and fetch (default: the front page)
`--probe`	required	kernel, micro: only these probes; repeat it for more
`--json`		Print the run as JSON
`--csv`		Print the rows as CSV
`--save`	required	Write the run as JSON to this file
`--baseline`	required	Compare with this saved run; exit 1 when a metric regressed
`--threshold`	required	Percent a metric may get worse before it counts as a regression (default 15; micro: 40, after normalisation)
`--min-delta`	required	Milliseconds a latency must grow by, too, to count (default 1)
`--all-checks`		Show every comparison, not only the regressions
`--force`		Allow more than the polite limits against a host that is not loopback

Read from the option definitions in the code (`startup()`, `getOptions()`, `options()` or `ezcConsoleOption`). Every script also takes the standard options of the script framework (`--help`, `--siteaccess`, `--debug`, `--quiet`, `--allow-root-user` ...).

Arguments: `[MODE*]`.

Related

- All console commands

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