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# How to use options

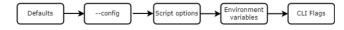
k6 provides multiple places to set options:

- · In CLI flags
- In environment variables
- In the script options object
- In a configuration file

Most likely, your use case will determine where you want to set the particular options for a particular test. You can also access option values as your test runs.

## Order of precedence

Command-line flags override all other options.



You can set options in multiple places. If there are conflicts, k6 uses the option from the place with the highest order of precedence.

- 1 First, k6 uses the option's default value.
- 2 Next, k6 uses the options set in a configuration file via the --config flag.
- 3 Then, k6 uses the script value (if set).
- 4 After, k6 uses the <mark>environment variab</mark>le (if set).
- 5 Finally, k6 takes the value from the CLI flag (if set).

That is, command-line flags have the highest order of precedence

#### Where to set options

Sometimes, how you set options is a matter of personal preference. Other times, the context of your test dictates the most sensible place to put your options.

(3)

app.k6.io

Options in the script to version control and keep tests tidy.

```
The script options object is generally the best place to put your options. This provides automatic version duration: '1s', control, allows for easy reuse, and lets you modularize your script.

Cloud: {
```



CLI flags to set options on the fly

When you want to run a quick test, command-line flags are convenient.

You can also use command-line flags to override files in your script (as determined by the order of precedence). For example, if your script file sets the test duration at 60 seconds, you could use a CLI flag to run a one-time shorter test. With a flag like --duration 30s, the test would be half as long but otherwise identical.



Environment variables to set options from your build chain

For example, you could derive the option from a variable in your Docker container definition, CI UI, or vault—wherever you declare environment variables.

 $The \, {\color{blue} \textbf{block hostnames}} \, option \, is \, an \, example \, of \, an \, option \, that \, works \, well \, with \, environment \, variables. \\$ 

# Examples of setting options

The following JS snippets show some examples of how you can set options.

#### Set options in the script

SUGGEST EDITS

export const options = {

projectID: 3704066

vus: 1,

Order of precedence

Where to set options

Examples of setting options

Get an option value from the script

```
14
15 export default function () {
16 http.get('http://test.k6.io/');
17 }
```

#### Set options with environment variables

You can also set the options from the previous example through environment variables and command-line flags:

```
Bash Windows: CMD Windows: PowerShell

$ K6_NO_CONNECTION_REUSE=true K6_USER_AGENT="MyK6UserAgentString/1.0" k6 run script.js

$ k6 run --no-connection-reuse --user-agent "MyK6UserAgentString/1.0" script.js
```

#### Set options from k6 variables

With the  $\,$ --env flag, you can use the CLI to define k6 variables. Then, you can use the variable to dynamically define an option's value in the script file.

For example, you could define a variable for your user agent like this:

```
k6 run script.js --env MY_USER_AGENT="hello"
```

Then, your script could then set the  $\ user Agent$  option based on the variable's value. This allows for quick configuration.

Note: Though this method uses the --env flag, this is not the same as using an environment variable. For an explanation, refer to the environment variables document.

### Set options with the --config flag

k6 includes a default configuration file that you can edit, or you can create a new file and then use a CLI flag to point to that file. If you use it, the options take the second lowest order of precedence (after defaults). If you set options anywhere else, they will override the --config flag options.

Use the --config flag to declare the file path to your options.

```
k6 run --config options.json script.js
```

 $This command would set test options according to the {\tt values} \ in {\tt the} \ {\tt options.json} \ file {\tt options.json} \ fi$ 

file:

```
// load test config, used to populate exported options object:
const testConfig = JSON.parse(open('./config/test.json'));
// combine the above with options set directly:
export const options = testConfig;
```

## Get an option value from the script

The k6/execution API provides a test.options object. With test.options, you can access the consolidated and derived options of your script as the test runs.

A common use of this feature is to log the value of a tag, but there are many possibilities. For example, this script accesses the value of the test's current stage:

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