DevServer

webpack-dev-server can be used to quickly develop an application. See the "How to Develop?" to get started.

This page describes the options that affect the behavior of webpack-devserver (short: dev-server).

Options that are compatible with <u>webpack-dev-middleware</u> have \nearrow next to them.

object

This set of options is picked up by <u>webpack-dev-server</u> and can be used to change its behavior in various ways. Here's a simple example that gzips and serves everything from our dist/directory:

```
devServer: {
  contentBase: path.join(__dirname, "dist"),
  compress: true,
  port: 9000
}
```

When the server is started, there will be a message prior to the list of resolved modules:

```
http://localhost:9000/
webpack output is served from /build/
Content not from webpack is served from /path/to/dist/
```

that will give some background on where the server is located and what it's serving.

If you're using dev-server through the Node.js API, the options in

devServer will be ignored. Pass the options as a second parameter instead: new WebpackDevServer(compiler, {...}). See here for an example of how to use webpack-dev-server through the Node.js API.

Be aware that when <u>exporting multiple configurations</u> only the devServer options for the first configuration will be taken into account and used for all the configurations in the array.

If you're having trouble, navigating to the /webpack-dev-server route will show where files are served. For example, http://localhost:9000/webpack-dev-server.

devServer.after

function

Provides the ability to execute custom middleware after all other middleware internally within the server.

```
after(app){
}
```

devServer.allowedHosts

array

This option allows you to whitelist services that are allowed to access the dev server.

```
allowedHosts: [
  'host.com',
  'subdomain.host.com',
  'subdomain2.host.com',
  'host2.com'
]
```

Mimicking django's Allowed_Hosts, a value beginning with . can be used as a subdomain wildcard. .host.com will match host.com, www.host.com, and any other subdomain of host.com.

```
allowedHosts: [
   '.host.com',
   'host2.com'
]
```

To use this option with the CLI pass the --allowed-hosts option a commadelimited string.

```
webpack-dev-server --entry /entry/file --output-path /output/path --allowed
```

devServer.before

function

Provides the ability to execute custom middleware prior to all other middleware internally within the server. This could be used to define custom handlers, for example:

```
before(app){
  app.get('/some/path', function(req, res) {
    res.json({ custom: 'response' });
  });
}
```

devServer.bonjour

This option broadcasts the server via ZeroConf networking on start

bonjour: true

Usage via the CLI

webpack-dev-server --bonjour

devServer.clientLogLevel

string

When using *inline mode*, the console in your DevTools will show you messages e.g. before reloading, before an error or when Hot Module Replacement is enabled. This may be too verbose.

You can prevent all these messages from showing, by using this option:

clientLogLevel: "none"

Usage via the CLI

webpack-dev-server --client-log-level none

Possible values are none, error, warning or info (default).

devServer.color - CLI only

boolean

Enables/Disables colors on the console.

```
webpack-dev-server --color
```

devServer.compress

boolean

Enable <u>gzip compression</u> for everything served:

```
compress: true
```

Usage via the CLI

```
webpack-dev-server --compress
```

devServer.contentBase

boolean string array

Tell the server where to serve content from. This is only necessary if you want to serve static files. devServer.publicPath will be used to determine where the bundles should be served from, and takes precedence.

By default it will use your current working directory to serve content, but you can modify this to another directory:

```
contentBase: path.join(__dirname, "public")
```

Note that it is recommended to use an absolute path.

It is also possible to serve from multiple directories:

```
contentBase: [path.join( dirname, "public"), path.join( dirname, "assets"
```

To disable contentBase:

contentBase: false

Usage via the CLI

webpack-dev-server --content-base /path/to/content/dir

devServer.disableHostCheck

boolean

When set to true this option bypasses host checking. THIS IS NOT RECOMMENDED as apps that do not check the host are vulnerable to DNS rebinding attacks.

disableHostCheck: true

Usage via the CLI

webpack-dev-server --disable-host-check

devServer.filename



string

This option lets you reduce the compilations in **lazy mode**. By default in lazy mode, every request results in a new compilation. With filename, it's possible to only compile when a certain file is requested.

If output.filename is set to bundle.js and filename is used like this:

```
lazy: true,
filename: "bundle.js"
```

It will now only compile the bundle when /bundle.js is requested.

filename has no effect when used without lazy mode.

```
devServer.headers
```

object

Adds headers to all responses:

```
headers: {
   "X-Custom-Foo": "bar"
}
```

devServer.historyApiFallback

boolean object

When using the <u>HTML5 History API</u>, the index.html page will likely have to be served in place of any 404 responses. Enable this by passing:

```
historyApiFallback: true
```

By passing an object this behavior can be controlled further using options like rewrites:

```
{ from: /^\/subpage/, to: '/views/subpage.html' },
    { from: /./, to: '/views/404.html' }
]
```

When using dots in your path (common with Angular), you may need to use the disableDotRule:

```
historyApiFallback: {
   disableDotRule: true
}
```

Usage via the CLI

```
webpack-dev-server --history-api-fallback
```

For more options and information, see the <u>connect-history-api-fallback</u> documentation.

devServer.host

string

Specify a host to use. By default this is localhost. If you want your server to be accessible externally, specify it like this:

```
host: "0.0.0.0"
```

Usage via the CLI

```
webpack-dev-server --host 0.0.0.0
```

devServer.hot

boolean

Enable webpack's Hot Module Replacement feature:

hot: true

Note that webpack. HotModuleReplacementPlugin is required to fully enable HMR. If webpack or webpack-dev-server are launched with the --hot option, this plugin will be added automatically, so you may not need to add this to your webpack.config.js. See the HMR concepts page for more information.

devServer.hotOnly

boolean

Enables Hot Module Replacement (see devserver.hot) without page refresh as fallback in case of build failures.

hotOnly: true

Usage via the CLI

webpack-dev-server --hot-only

devServer.https

boolean object

By default dev-server will be served over HTTP. It can optionally be served

over HTTP/2 with HTTPS:

```
https: true
```

With the above setting a self-signed certificate is used, but you can provide your own:

```
https: {
  key: fs.readFileSync("/path/to/server.key"),
  cert: fs.readFileSync("/path/to/server.crt"),
  ca: fs.readFileSync("/path/to/ca.pem"),
}
```

This object is passed straight to Node.js HTTPS module, so see the <u>HTTPS</u> documentation for more information.

Usage via the CLI

```
webpack-dev-server --https
```

To pass your own certificate via the CLI use the following options

```
webpack-dev-server --https --key /path/to/server.key --cert /path/to/server
```

devServer.index

string

The filename that is considered the index file.

```
index: 'index.htm'
```

devServer.info - CLI only

boolean

Output cli information. It is enabled by default.

webpack-dev-server --info=false

devServer.inline

boolean

Toggle between the dev-server's two different modes. By default the application will be served with *inline mode* enabled. This means that a script will be inserted in your bundle to take care of live reloading, and build messages will appear in the browser console.

It is also possible to use **iframe mode**, which uses an <iframe> under a notification bar with messages about the build. To switch to **iframe mode**:

inline: false

Usage via the CLI

webpack-dev-server --inline=false

Inline mode is recommended for Hot Module Replacement as it includes an HMR trigger from the websocket. Polling mode can be used as an alternative, but requires an additional entry point, 'webpack/hot/poll?1000'.

devServer.lazy 🎤

boolean

When lazy is enabled, the dev-server will only compile the bundle when it gets requested. This means that webpack will not watch any file changes. We call this **lazy mode**.

lazy: true

Usage via the CLI

webpack-dev-server --lazy

watchOptions will have no effect when used with lazy mode.

If you use the CLI, make sure **inline mode** is disabled.

devServer.noInfo



boolean

With noinfo enabled, messages like the webpack bundle information that is shown when starting up and after each save, will be hidden. Errors and warnings will still be shown.

noInfo: true

devServer.open

boolean

When open is enabled, the dev server will open the browser.

open: true

Usage via the CLI

```
webpack-dev-server --open
```

If no browser is provided (as shown above), your default browser will be used. To specify a different browser, just pass its name:

```
webpack-dev-server --open 'Google Chrome'
```

devServer.openPage

string

Specify a page to navigate to when opening the browser.

```
openPage: '/different/page'
```

Usage via the CLI

```
webpack-dev-server --open-page "/different/page"
```

devServer.overlay

boolean object

Shows a full-screen overlay in the browser when there are compiler errors or warnings. Disabled by default. If you want to show only compiler errors:

```
overlay: true
```

If you want to show warnings as well as errors:

```
overlay: {
  warnings: true,
  errors: true
}
```

devServer.pfx

string

When used via the CLI, a path to an SSL .pfx file. If used in options, it should be the bytestream of the .pfx file.

```
pfx: '/path/to/file.pfx'
```

Usage via the CLI

```
webpack-dev-server --pfx /path/to/file.pfx
```

devServer.pfxPassphrase

string

The passphrase to a SSL PFX file.

```
pfxPassphrase: 'passphrase'
```

Usage via the CLI

webpack-dev-server --pfx-passphrase passphrase

devServer.port

number

Specify a port number to listen for requests on:

```
port: 8080
```

Usage via the CLI

```
webpack-dev-server --port 8080
```

devServer.proxy

object

Proxying some URLs can be useful when you have a separate API backend development server and you want to send API requests on the same domain.

The dev-server makes use of the powerful http-proxy-middleware package. Checkout its documentation for more advanced usages.

With a backend on localhost: 3000, you can use this to enable proxying:

```
proxy: {
   "/api": "http://localhost:3000"
}
```

A request to /api/users will now proxy the request to

http://localhost:3000/api/users.

If you don't want /api to be passed along, we need to rewrite the path:

```
proxy: {
   "/api": {
    target: "http://localhost:3000",
    pathRewrite: {"^/api" : ""}
  }
}
```

A backend server running on HTTPS with an invalid certificate will not be accepted by default. If you want to, modify your config like this:

```
proxy: {
   "/api": {
    target: "https://other-server.example.com",
    secure: false
  }
}
```

Sometimes you don't want to proxy everything. It is possible to bypass the proxy based on the return value of a function.

In the function you get access to the request, response and proxy options. It must return either false or a path that will be served instead of continuing to proxy the request.

E.g. for a browser request, you want to serve a HTML page, but for an API request you want to proxy it. You could do something like this:

```
proxy: {
   "/api": {
    target: "http://localhost:3000",
    bypass: function(req, res, proxyOptions) {
        if (req.headers.accept.indexOf("html") !== -1) {
```

```
console.log("Skipping proxy for browser request.");
    return "/index.html";
}
}
}
```

If you want to proxy multiple, specific paths to the same target, you can use an array of one or more objects with a context property:

```
proxy: [{
  context: ["/auth", "/api"],
  target: "http://localhost:3000",
}]
```

devServer.progress - CLI only

boolean

Output running progress to console.

```
webpack-dev-server --progress
```

devServer.public

string

When using *inline mode* and you're proxying dev-server, the inline client script does not always know where to connect to. It will try to guess the URL of the server based on window.location, but if that fails you'll need to use this.

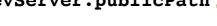
For example, the dev-server is proxied by nginx, and available on myapp.test:

```
public: "myapp.test:80"
```

Usage via the CLI

webpack-dev-server --public myapp.test:80

devServer.publicPath 🎤



string

The bundled files will be available in the browser under this path.

Imagine that the server is running under http://localhost:8080 and output.filename is set to bundle.js. By default the publicPath is "/", so your bundle is available as http://localhost:8080/bundle.js.

The publicPath can be changed so the bundle is put in a directory:

```
publicPath: "/assets/"
```

The bundle will now be available as

http://localhost:8080/assets/bundle.js.

Make sure publicPath always starts and ends with a forward slash.

It is also possible to use a full URL. This is necessary for Hot Module Replacement.

```
publicPath: "http://localhost:8080/assets/"
```

The bundle will also be available as

http://localhost:8080/assets/bundle.js.

It is recommended that devServer.publicPath is the same as output.publicPath.

devServer.quiet 🎤

boolean

With quiet enabled, nothing except the initial startup information will be written to the console. This also means that errors or warnings from webpack are not visible.

```
quiet: true
```

Usage via the CLI

```
webpack-dev-server --quiet
```

devServer.setup

function

This option is **deprecated** in favor of before and will be removed in v3.0.0.

Here you can access the Express app object and add your own custom middleware to it. For example, to define custom handlers for some paths:

```
setup(app){
  app.get('/some/path', function(req, res) {
    res.json({ custom: 'response' });
  });
}
```

devServer.socket

string

The Unix socket to listen to (instead of a host).

```
socket: 'socket'
```

Usage via the CLI

```
webpack-dev-server --socket socket
```

devServer.staticOptions

It is possible to configure advanced options for serving static files from contentBase. See the <u>Express documentation</u> for the possible options. An example:

```
staticOptions: {
  redirect: false
}
```

This only works when using contentBase as a string.

devServer.stats



string object

This option lets you precisely control what bundle information gets displayed. This can be a nice middle ground if you want some bundle information, but not all of it.

To show only errors in your bundle:

```
stats: "errors-only"
```

For more information, see the **stats documentation**.

This option has no effect when used with quiet or noInfo.

devServer.stdin - CLI only

boolean

This option closes the server when stdin ends.

```
webpack-dev-server --stdin
```

devServer.useLocalIp

boolean

This option lets the browser open with your local IP.

```
useLocalIp: true
```

Usage via the CLI

```
webpack-dev-server --useLocalIp
```

devServer.watchContentBase

boolean

Tell the server to watch the files served by the devserver.contentBase option. File changes will trigger a full page reload.

```
watchContentBase: true
```

It is disabled by default.

Usage via the CLI

```
webpack-dev-server --watch-content-base
```

devServer.watchOptions



object

Control options related to watching the files.

webpack uses the file system to get notified of file changes. In some cases this does not work. For example, when using Network File System (NFS). <u>Vagrant</u> also has a lot of problems with this. In these cases, use polling:

```
watchOptions: {
  poll: true
}
```

If this is too heavy on the file system, you can change this to an integer to set the interval in milliseconds.

See WatchOptions for more options.