FastAPI CLI

FastAPI CLI is a command line program that you can use to serve your FastAPI app, manage your FastAPI project, and more.

When you install FastAPI (e.g. with pip install "fastapi[standard]"), it includes a package called fastapi-cli, this package provides the fastapi command in the terminal.

To run your FastAPI app for development, you can use the fastapi dev command:

```
bash
$ fastapi dev main.py
  FastAPI
               Starting development server 🖋
               Searching for package file structure from
directories with
                __init__.py files
               Importing from /home/user/code/awesomeapp
    module
               🍛 main.py
      code
               Importing the FastAPI app object from the
module with the
               following code:
               <u>from main import app</u>
               Using import string: main:app
        app
               Server started at <a href="http://127.0.0.1:8000">http://127.0.0.1:8000</a>
     server
               Documentation at <a href="http://127.0.0.1:8000/docs">http://127.0.0.1:8000/docs</a>
     server
       tip
               Running in development mode, for production
use:
               fastapi run
```

```
Logs:
      INFO
              Will watch for changes in these
directories:
              '/home/user/code/awesomeapp']
      INFO
              Uvicorn running on <a href="http://127.0.0.1:8000">http://127.0.0.1:8000</a>
(Press CTRL+C to
              quit)
      INFO
              Started reloader process [383138] using
WatchFiles
              Started server process [383153]
      INFO
      INFO
              Waiting for application startup.
      INFO
              Application startup complete.
                                                     restart บ
```

The command line program called fastapi is FastAPI CLI.

FastAPI CLI takes the path to your Python program (e.g. main.py) and automatically detects the FastAPI instance (commonly named app), determines the correct import process, and then serves it.

For production you would use fastapi run instead. 🖋

Internally, FastAPI CLI uses Uvicorn [→], a high-performance, production-ready, ASGI server. •

fastapi dev

Running fastapi dev initiates development mode.

By default, **auto-reload** is enabled, automatically reloading the server when you make changes to your code. This is resource-intensive and could be less stable than when it's disabled. You should only use it for development. It also listens on the IP address 127.0.0.1, which is the IP for your machine to communicate with itself alone (localhost).

fastapi run

Executing fastapi run starts FastAPI in production mode by default.

By default, **auto-reload** is disabled. It also listens on the IP address 0.0.0.0, which means all the available IP addresses, this way it will be publicly accessible to anyone that can communicate with

the machine. This is how you would normally run it in production, for example, in a container.

In most cases you would (and should) have a "termination proxy" handling HTTPS for you on top, this will depend on how you deploy your application, your provider might do this for you, or you might need to set it up yourself.



You can learn more about it in the deployment documentation \hookrightarrow .

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