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OpenCode with All in One AI: creating opencode.json from scratch, the key and the models

All in One AI

CODE	VERSION	COUNTRY · LANGUAGE
RLX-MZ-KB-2937	v2026.11.28	Mozambique · English

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OpenCode with All in One AI: creating opencode.json from scratch, the key and the models

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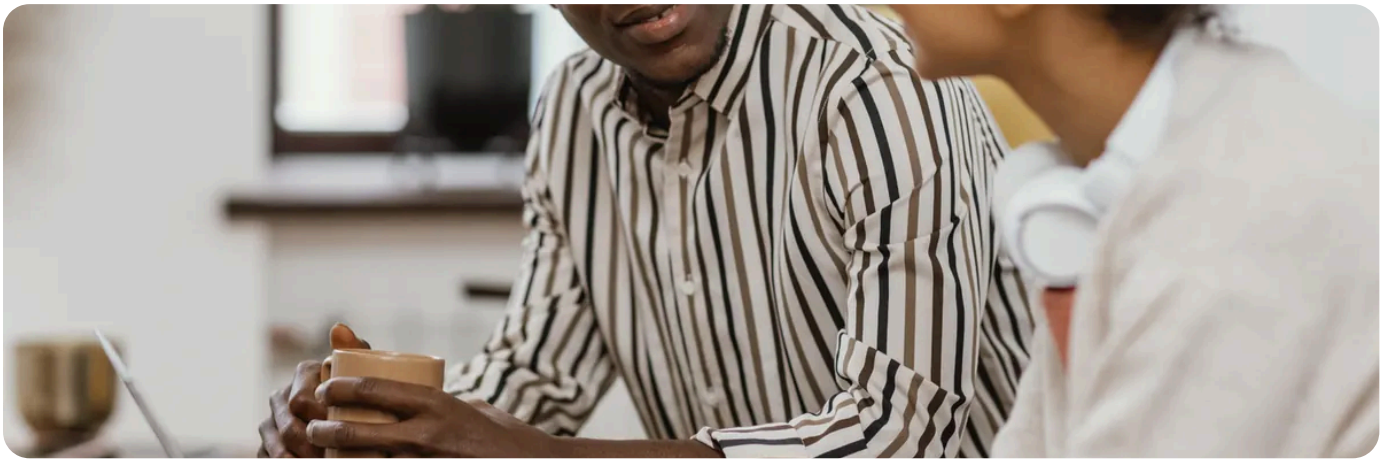

OpenCode is an open-source coding agent that works in the terminal. It speaks the OpenAI format (Chat Completions), so it can use All in One AI models, paid with AI credits or with the Coding Plan. Its configuration is a JSON file. This article shows how to create it from scratch, even if you have never done it.

Before you start

1. Create a key in the **API Center** with the `ai:read` and `ai:write` permissions. Use a `sandbox_` key to check the setup without spending and a `prod_` key to work. The fields are explained in **creating an API key**.
2. Have AI credits or an active Coding Plan in **All in One AI**.
3. Have OpenCode installed, following the instructions on the official site, opencode.ai.

1. Keep the key in a variable

On Windows, open Command Prompt or PowerShell and type (with your key in quotes):

```
setx MOZOUT_API_KEY "prod_..."
```

`setx` saves the variable for the windows you open **afterwards**. Close the terminal and the tool, then open them again.

On Linux and macOS, type in the terminal:

```
export MOZOUT_API_KEY="prod_..."
```

To have the variable in every new terminal, add the same line at the end of `~/.bashrc` or `~/.zshrc`.

2. Where the file goes

For	File
One project only (Windows, macOS and Linux)	`opencode.json`, in the project folder
All projects (Linux and macOS)	`~/.config/opencode/opencode.json`

The OpenCode documentation does not give the location of the global file on Windows. On Windows, use the project file, which works the same. OpenCode accepts `.json` and `.jsonc` (the second lets you write comments).

3. Create the folder and the file

On Linux and macOS, for all projects:

```
mkdir -p ~/.config/opencode
nano ~/.config/opencode/opencode.json
```

On Windows, open PowerShell, go to the project folder (change the path to yours) and open the file in Notepad:

```
cd "C:\Projects\my-site"
notepad opencode.json
```

Notepad asks whether to create the file: answer yes. That way the name is exact. If you use **Save as**, choose **All files (*.*)** as the type: otherwise Windows adds `.txt` and the file becomes `opencode.json.txt`, which the tool does not read. Windows hides that ending. To check, type `dir` in the same folder: the name must end in `.json`.

4. Paste the configuration and save

Paste the whole block, exactly as it is:

```
{
  "$schema": "https://opencode.ai/config.json",
  "provider": {
    "api": {
      "npm": "@ai-sdk/openai-compatible",
      "name": "MozOut",
      "options": {
        "baseURL": "https://api.mozout.co.mz/v1",
        "apiKey": "{env:MOZOUT_API_KEY}"
      },
      "models": {
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1000000, "output": 16000 } },
            "anthropic/claude-fable-5.1": { "name": "Claude Fable 5.1", "limit": {
"context": 1000000, "output": 16000 } },
            "openai/gpt-6-astra-codex": { "name": "GPT 6 Astra Codex", "limit": {
```

```
"context": 1050000, "output": 16000 } },
         "anthropic/claude-fable-5.2-ccmax": { "name": "Claude Fable 5.2", "limit": {
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        "openai/gpt-5.5": { "name": "GPT 5.5", "limit": { "context": 1050000, "output":
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        "google/gemini-3.1-pro-preview": { "name": "Gemini 3.1 Pro Preview", "limit": {
"context": 1000000, "output": 16000 } },
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```

```
        "google/gemini-3.5-flash": { "name": "Gemini 3.5 Flash", "limit": { "context":
1048576, "output": 16000 } },
         "qwen/qwen3.7-max": { "name": "Qwen3.7 Max", "limit": { "context": 1000000,
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       "anthropic/claude-haiku-4.5-20251001": { "name": "Claude Haiku 4.5", "limit": {
"context": 200000, "output": 16000 } },
          "openai/gpt-6.1-terra-codex": { "name": "GPT 6.1 Terra Codex", "limit": {
"context": 1050000, "output": 16000 } },
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"output": 16000 } },
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```

```
16000 } },
            "bytedance/doubao-seed-2.0-pro-260215": { "name": "Doubao Seed 2.0 Pro",
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        "google/gemini-3-flash-preview": { "name": "Gemini 3 Flash Preview", "limit": {
"context": 200000, "output": 16000 } },
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"output": 16000 } },
          "tencent/hy4-preview": { "name": "Hunyuan 4 Preview", "limit": { "context":
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          "moonshotai/kimi-k2.5": { "name": "Kimi K2.5", "limit": { "context": 262144,
"output": 16000 } },
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"context": 1048576, "output": 16000 } },
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```

```
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"context": 1048576, "output": 16000 } },
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"output": 16000 } },
          "deepseek-ai/deepseek-v4-flash": { "name": "DeepSeek V4 Flash", "limit": {
"context": 1048576, "output": 16000 } },
         "dots-studio/dots-3-note-prev-free": { "name": "Dots 3 Note Preview", "limit":
{ "context": 512000, "output": 16000 } }
      }
    }
  },
  "model": "api/moonshotai/kimi-k2.7-code"
}
```

Part	What it does
`"api"`	The provider id. It can have another name, but it must match the start of `model`.
`npm`	The package that speaks the OpenAI format. OpenCode handles it on its own.
`baseURL`	Our address, with `/v1`.
`apiKey`	`{env:MOZOUT_API_KEY}` reads the key from the variable in step 1, so the key is not in the file. If the variable does not exist, OpenCode puts an empty value there and the API answers `401`.
`models`	The models that show in OpenCode. Each one takes the catalogue id, with the slash.
`limit`	The context and the maximum per answer. We reserve credits for the maximum output the tool asks for in each answer. That is why the examples ask for 16,000 tokens: it is enough for coding and needs a smaller balance than a higher value.
`model`	The starting model: the provider, a slash and the catalogue id.

Save: in Notepad, Ctrl+S; in nano, Ctrl+O, Enter and Ctrl+X.

5. Open OpenCode and check

Close OpenCode completely and open it again. If you used the project file, open it inside that folder. Type `/models`: the MozOut provider's models should show. Pick one and say "hello". With a `sandbox_` key, the answer is always "Resposta de teste (sandbox)." If you see it, everything is right. Then set the variable to the `prod_` key and close and open OpenCode again.

The models in the list

For your own provider, OpenCode only shows the models written in `models`. The block in step 4 already has the 79 that support tools, from the most expensive to the cheapest. If you want fewer, delete the lines you do not use. In JSON the items are separated by commas, so the last line in `models` has no comma at the end.

The ids are in the Models tab of **All in One AI** or in the API list. On Linux and macOS:

```
curl "https://api.mozout.co.mz/v1/models?type=text" -H "Authorization: Bearer $MOZOUT_API_KEY"
```

In Windows PowerShell:

```
curl.exe "https://api.mozout.co.mz/v1/models?type=text" -H "Authorization: Bearer $env:MOZOUT_API_KEY"
```

Each model comes with its `id` (always with the slash), its `context_length` and its price in `pricing`. Listing the models spends no credits.

Use models that support tools (function calling), because OpenCode needs them to edit files and run commands:

Model	Context	What for
`moonshotai/kimi-k2.7-code`	262,144 tokens	Built for coding: the starting point for everyday work.
`deepseek-ai/deepseek-v4-pro`	1,048,576 tokens	Strong reasoning, for big changes and hard bugs.
`zai-org/glm-5.2`	1,048,576 tokens	Made for agents: handles tools well in long tasks.
`deepseek-ai/deepseek-v4-flash`	1,048,576 tokens	Fast and cheap, for background tasks and short questions.

The error "Unrecognized key: "providers""

Newer OpenCode versions have a new format, with `"providers"`. A version that does not know it rejects the file with this error. The format in this article, with `"provider"`, is still accepted, according to the OpenCode documentation, and works in every version. If you copied an example with `"providers"`, replace it with this one. And if an example has `"env"`, it takes the variable name, never the key.

Never write the key in `opencode.json`.
The project file usually goes into the repository. With `{env:MOZOUT_API_KEY}`, the file only holds the variable name. If a key ends up in Git, see **what to do, in the right order**.

Other errors and what to do are in **errors when setting up a tool with All in One AI**.

RECOMMENDED

Want to code with AI in OpenCode? Visit the Coding with AI page.

See Coding with AI →

SEE ALSO

- **Errors when setting up a tool with All in One AI: 401, model not found, no credits, /v1 and rejected config files**
- **Which coding tool to use with All in One AI: OpenCode, Claude Code, Codex, Cursor, Cline, Kilo Code or Aider**
- **Coding Plan: which plan to choose, what it costs and how to subscribe**
- **The All in One AI MCP server: images, video and voice inside Claude Code, Codex and ChatGPT**
- **Coding with AI in All in One AI**

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MozOut Mozambique

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