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MoonPalace - Moonshot AI Dark Side of the Moon Kimi API debugging tool

MoonPalace is an API debugging tool provided by Moonshot AI Dark Side of the Moon. It has the following features:

- All platform support:
 - Mac
 - Windows
 - Linux:
- Easy to use. After startup, base_url replace with http://localhost:9988 to start debugging.
- Capture the entire request, including the "accident scene" in case of network errors;
- Through request_id, chatcmpl_id quick retrieval, and viewing of request information;
- One-click export of BadCase structured reporting data helped Kimi improve model capabilities;

We recommend using MoonPalace as your API "supplier" during the code writing and debugging stages so that you can quickly discover and locate various problems in the API call and code writing process. For various unexpected outputs of the Kimi big model, you can also export the request details through MoonPalace and submit them to Moonshot AI to improve the Kimi big model.

Installation

Install using go command

If you have already installed go the toolchain, you can execute the following command to install MoonPalace:

```
$ go install github.com/MoonshotAI/moonpalace@latest
```

\$GOPATH/bin/ The above command will install the compiled binary files in your directory. Run moonpalace the command to check whether it is successfully installed:

```
$ moonpalace
MoonPalace is a command-line tool for debugging the Moonshot AI HTTP API.
Usage:
  moonpalace [command]
Available Commands:
  cleanup
             Cleanup Moonshot AI requests.
  completion Generate the autocompletion script for the specified shell
             export a Moonshot AI request.
  export
  help
             Help about any command
  inspect
             Inspect the specific content of a Moonshot AI request.
  list
              Query Moonshot AI requests based on conditions.
              Start the MoonPalace proxy server.
  start
Flags:
  -h, --help
                help for moonpalace
  -v, --version version for moonpalace
Use "moonpalace [command] --help" for more information about a command.
```

If you still cannot retrieve moonpalace the binaries, try \$GOPATH/bin/ adding the directory to your \$PATH PATH environment variables.

Download from Releases page

You can download it from Releases Download the compiled binary (executable) file from the page:

- moonpalace-linux
- moonpalace-macos-amd64 => for Intel version of Mac
- moonpalace-macos-arm64 => corresponds to the Apple Silicon version of Mac
- moonpalace-windows.exe

Please download the corresponding binary (executable) file according to your platform, place the binary (executable) file in \$PATH the directory contained in the environment variable, rename it moonpalace, and finally grant it executable permission.

How to use

Start the service

Start the MoonPalace proxy server using the following command:

```
$ moonpalace start --port <PORT>
```

MoonPalace will start a local HTTP server. --port The parameter specifies the local port that MoonPalace listens on. The default value is 9988. When MoonPalace starts successfully, it will output:

[MoonPalace] 2024/07/29 17:00:29 MoonPalace Starts {'=>'} change base url to "http://127.0.0.1:





base_url replace with the displayed address.

Additionally, if you want to always use a debugger when debugging, you can set a default for <code>api_key</code> MoonPalace using the parameter when starting MoonPalace, so that you don't have to set it manually when requesting. MoonPalace will help you add the one you set when requesting the Kimi API . --key <code>api_key</code> <code>api_key</code> <code>--key</code> <code>api_key</code>

If you set it up correctly base_url and successfully call the Kimi API, MoonPalace will output the following information:

```
$ moonpalace start --port <PORT>
[MoonPalace] 2024/07/29 17:00:29 MoonPalace Starts { '=>'} change base url to "http://127.0.0.1:
[MoonPalace] 2024/07/29 21:30:53 POST
                                        /v1/chat/completions 200 OK
[MoonPalace] 2024/07/29 21:30:53
                                   - Request Headers:
[MoonPalace] 2024/07/29 21:30:53
                                     - Content-Type:
                                                       application/json
[MoonPalace] 2024/07/29 21:30:53
                                   - Response Headers:
[MoonPalace] 2024/07/29 21:30:53
                                     - Content-Type:
                                                       application/json
[MoonPalace] 2024/07/29 21:30:53
                                     - Msh-Request-Id: c34f3421-4dae-11ef-b237-9620e33511ee
[MoonPalace] 2024/07/29 21:30:53
                                     - Server-Timing: 7134
[MoonPalace] 2024/07/29 21:30:53
                                     - Msh-Uid:
                                                        cn0psmmcp7fclnphkcpg
[MoonPalace] 2024/07/29 21:30:53
                                     - Msh-Gid:
                                                        enterprise-tier-5
[MoonPalace] 2024/07/29 21:30:53
                                   - Response:
[MoonPalace] 2024/07/29 21:30:53
                                     - id:
                                                           cmpl-12be8428ebe74a9e8466a37bee7a9b11
[MoonPalace] 2024/07/29 21:30:53
                                     - prompt_tokens:
[MoonPalace] 2024/07/29 21:30:53
                                     - completion_tokens: 158
[MoonPalace] 2024/07/29 21:30:53
                                     - total_tokens:
                                                           1607
[MoonPalace] 2024/07/29 21:30:53
                                   New Row Inserted: last insert id=15
```





MoonPalace will output the request details in the form of a log on the command line (if you want to store the log content persistently, you can stderr redirect it to a file).

Note: In the log, Msh-Request-Id the value of the field in the Response Headers corresponds to the value of the parameter in **the retrieval request** and **export request described** --requestid below, and in the Response id corresponds to --chatcmpl the value of the parameter and last_insert_id corresponds to --id the value of the parameter.

Content truncation detection

MoonPalace can detect whether the output content of the current Kimi large model is truncated or incomplete (this function is enabled by default). When MoonPalace detects that the output content is truncated or incomplete, it will output in the log:

[MoonPalace] 2024/08/05 19:06:19 it seems that your max_tokens value is too small, please set





If you are currently using non-streaming output mode (stream=False), MoonPalace will give you suggested max_tokens values.

Enable duplicate content output detection

MoonPalace provides a detection function for repeated content output of Kimi Big Model. Repeated content output means: **Kimi Big Model will repeatedly output a specific word, sentence, and blank character, and max_tokens will not stop until the limit is reached. **When using moonshot-v1-128k a model with higher fees such as , this repeated output will result in additional Tokens cost consumption, so MoonPalace provides --detect-repeat an option to enable repeated content output detection, as shown below:

\$ moonpalace start --port <PORT> --detect-repeat --repeat-threshold 0.3 --repeat-min-length 20



After enabling --detect-repeat the option, MoonPalace will interrupt the output of Kimi Big Model when it detects duplicate content output of Kimi Big Model and output in the log:

[MoonPalace] 2024/08/05 18:20:37 it appears that there is an issue with content repeating in



Note: After enabling --detect-repeat, MoonPalace will interrupt the output of Kimi large model only in streaming output (stream=True), which is not applicable in non-streaming output.

You can adjust MoonPalace's blocking behavior using the [--repeat-threshold / parameters: --repeat-min-length]

- --repeat-threshold The parameter is used to set MoonPalace's tolerance for duplicate content. A higher threshold means a lower tolerance, and duplicate content will be blocked faster. 0 <= threshold <= 1
- [--repeat-min-length] The parameter is used to set the number of characters that MoonPalace starts to detect when duplicate content is output. For example, --repeat-min-length=100 means that duplicate detection is enabled when the number of UTF-8 characters output

exceeds 100, and duplicate content output detection is disabled when the number of characters output is less than 100.

Enable forced streaming output

MoonPalace provides --force-stream an option to force all /v1/chat/completions requests to use streaming output mode:

```
$ moonpalace start --port <PORT> --force-stream
```

MoonPalace sets the field in the request parameters stream to True, and when getting a response, it automatically stream determines the format of the response based on whether the caller has set:

- If the caller has set it stream=True, it will be returned in the format of streaming output, and MoonPalace will not do any special processing on the response;
- If the caller does not set stream the value of, or sets it stream=False, MoonPalace will concatenate the data blocks into a complete completion structure and return it to the caller after receiving all streaming data blocks;

For the caller (developer), enabling --force-stream the option will not affect the Kimi API response content you get. You can still use the original code logic to debug and run your program. In other words, **enabling** --force-stream the option will not change or destroy anything. You can safely enable this option.

Why provide such an option?

We preliminarily speculate that the reason for common network connection errors, timeouts and other problems (Connection Error/Timeout) is that when using non-streaming mode for requests (stream=False), the gateway or proxy server in the middle layer sets read_header_timeout or read_timeout, which causes the gateway or proxy server in the middle layer to disconnect while the Kimi API server is still assembling the response (because no response, not even the response header, is received), resulting in a Connection Error/Timeout.

We tried adding [--force-stream a parameter to MoonPalace. When [moonpalace start -- force-stream started with , MoonPalace will convert all non-streaming requests (stream=False or stream not set) into streaming requests, and after receiving all data blocks, assemble them into a complete completion response structure and return it to the caller.

For the caller, the non-streaming API can still be used in the original way, but after the conversion by MoonPalace, the Connection Error/Timeout situation can be reduced to a certain extent, because at this time MoonPalace has established a connection with the Kimi API server and started to receive streaming data blocks.

Retrieval Request

After MoonPalace is started, all requests that pass through MoonPalace will be recorded in a sqlite database located at \$HOME/.moonpalace/moonpalace.sqlite. You can directly connect to the MoonPalace database to query the specific content of the request, or you can query the request through the MoonPalace command line tool:

<pre>\$ moonpalace list ++</pre>		
id status	chatcmpl	request_id
15 200		+ c34f3421-4dae-11ef-b237-9620e335110
14 200	cmpl-1bf43a688a2b48eda80042583ff6fe7f	c13280e0-4dae-11ef-9c01-debcfc72949
13 200	chatcmpl-2e1aa823e2c94ebdad66450a0e6df088	c07c118e-4dae-11ef-b423-62db244b92
12 200	cmpl-e7f984b5f80149c3adae46096a6f15c2	50d5686c-4d98-11ef-ba65-3613954e25
11 200	chatcmpl-08f7d482b8434a869b001821cf0ee0d9	4c20f0a4-4d98-11ef-999a-928b67d58fa
10 200	chatcmpl-6f3cf14db8e044c6bfd19689f6f66eb4	49f30295-4d98-11ef-95d0-7a2774525b
9 200	cmpl-2a70a8c9c40e4bcc9564a5296a520431	7bd58976-4d8a-11ef-999a-928b67d58fa
8 200	chatcmpl-59887f868fc247a9a8da13cfbb15d04f	ceb375ea-4d7d-11ef-bd64-3aeb95b9df
7 200	cmpl-36e5e21b1f544a80bf9ce3f8fc1fce57	cd7f48d6-4d7d-11ef-999a-928b67d58fa
6 200	cmpl-737d27673327465fb4827e3797abb1b3	cc6613ac-4d7d-11ef-95d0-7a2774525b

Use list the command to query the most recently generated request content. The default displayed fields are id // chatcmpl for easy retrieval and // information request_id for viewing

request status. If you want to view a specific request, you can use the command to retrieve the corresponding request: status server_timing requested_at inspect

By default, inspect the command will not print the request and response body information. If you want to print the body, you can use the following command:

Export Request

When you think a request does not meet your expectations, or want to report a request to Moonshot AI (good case or bad case, we welcome both), you can use export the command to

export a specific request:

```
# id/chatcmpl/requestid 选项只需要任选其一即可检索出对应的请求
$ moonpalace export \
    --id 13 \
    --chatcmpl chatcmpl-2e1aa823e2c94ebdad66450a0e6df088 \
    --requestid c07c118e-4dae-11ef-b423-62db244b9277 \
    --good/--bad \
    --tag "code" --tag "python" \
    --directory $HOME/Downloads/
```

Among them, id // is used in the same way as the command to retrieve a specific request, and chatcmpl / is used to mark the current request as a Good Case or a Bad Case, and is used to label the current request accordingly. For example, in the above example, we assume that the current request content is related to the programming language Python, so we add two , namely and , to specify the path of the directory where the exported file is stored. requestid inspect --good --bad --tag tag code python --directory

The contents of the successfully exported file are:

```
$ cat $HOME/Downloads/chatcmpl-2e1aa823e2c94ebdad66450a0e6df088.json
    "metadata":
        "chatcmpl": "chatcmpl-2e1aa823e2c94ebdad66450a0e6df088",
        "content_type": "application/json",
        "group_id": "enterprise-tier-5",
        "moonpalace_id": "13",
        "request_id": "c07c118e-4dae-11ef-b423-62db244b9277",
        "requested_at": "2024-07-29 21:30:43",
        "server_timing": "1033",
        "status": "200 OK",
        "user id": "cn0psmmcp7fclnphkcpg"
    },
    "request":
        "url": "https://api.moonshot.cn/v1/chat/completions",
        "header": "Accept: application/json\r\nAccept-Encoding: gzip\r\nConnection: keep-alive\
        "body":
        {}
    },
    "response":
```

```
6/26/25, 10:49 AM
```

```
{
    "status": "200 OK",
    "header": "Content-Encoding: gzip\r\nContent-Type: application/json; charset=utf-8\r\nD
    "body":
    {}
},
"category": "goodcase",
"tags":
[
    "code",
    "python"
]
}
```

We recommend developers to use <u>Github Issues</u>Submit a Good Case or Bad Case . If you do not want to disclose your request information, you can also submit your case to us via corporate WeChat, email, etc.

You can send the exported file to the following email addresses:

api-feedback@moonshot.cn

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