

# CLI

## Installation Command

RoostGPT binary is available at <https://github.com/roost-io/roost-support/releases>

Add the "roostgpt-<linux|macos|win.exe>" binary to your PATH environment variable

For Linux/MacOS, you can execute the below command to install roostgpt

```
curl https://raw.githubusercontent.com/roost-io/roost-support/master/roostgpt.sh | bash -
```

## CLI Commands

`./roostGPT-macos` (for mac) & `./roostGPT-win.exe` (for windows)

This command is used to run the RoostGPT CLI on your operating system.

- `-h, --help`: Displays the help message that provides information about the available options and usage.
- `roostgpt config create`: Creates roostgpt configuration file. The configuration file contains environment variables used by RoostGPT application.
- `--ui`: It opens the web form in order to create downloadable configuration file.
- `--output-dir, -o <path>`: Creates a configuration file in a specific directory. The configuration file contains environment variables used by the RoostGPT application. Default path is pwd.
- `--name <name>`: Creates the configuration file with specific name. Default name is default.env
  
- `roostgpt config update`: Updates the roostgpt configuration file.
- `--config, -c <path>`: Specifies the location of the environment configuration file. The configuration file contains environment variables used by the RoostGPT application.
- `--name <name>`: loads pwd/\$name.env. It is ignored if the --file is provided

- `roostgpt test create`: Triggers the test code.
- `--config, -c <path>`: Path to the configuration file if provided, otherwise the configuration will be retrieved from Environment variables.

# Instructions for creating .env file

**An easy way to download the .env file is to use <https://app.roost.ai/gptCLIForm>**

The .env file should be in the same folder path as RoostGPT binary.

Here is what the content of your .env file will look like:

```
# GIT env vars
GIT_TYPE=                # Default is github; Supports [github, gitlab, azure, bitbucket,
local]
HOSTED_TYPE=             # Default is cloud; Supports [cloud, hosted]
GIT_HOSTED_URL=          # Required if HOSTED_TYPE=hosted
USE_SSH=                 # Optional; Default is false; Supports [true, false]; SSH based
auth for Git
LOCAL_PROJECT_PATH=      # Required if GIT_TYPE is local, Path to your workspace.
SOURCE_GIT_CLONE_URL=    # Optional; the source repo clone URL
SOURCE_GIT_TOKEN=        # Required
SOURCE_OWNER_NAME=       # Required
SOURCE_REPO_NAME=        # Required
SOURCE_REPO_ID=          # Required for GIT_TYPE=gitlab
SOURCE_PROJECT_NAME=     # Required for GIT_TYPE=azure
SOURCE_PROJECT_ID=       # Required for GIT_TYPE=bitbucket
SOURCE_BASE_BRANCH=      # Required
SOURCE_RELATIVE_DIRECTORY= # Optional; the relative path of the repository
SAME_TARGET_DETAIL=      # Optional; Default true, Supports [true, false]
DESTINATION_GIT_CLONE_URL= # Optional; the destination repo clone URL
DESTINATION_GIT_TOKEN=    # Required if SAME_TARGET_DETAIL=false
DESTINATION_OWNER_NAME=   # Required if SAME_TARGET_DETAIL=false
DESTINATION_REPO_NAME=    # Required if SAME_TARGET_DETAIL=false
DESTINATION_REPO_ID=      # Required if SAME_TARGET_DETAIL=false and GIT_TYPE=gitlab
DESTINATION_PROJECT_NAME= # Required for GIT_TYPE=azure
```

```
DESTINATION_PROJECT_ID=      # Required if SAME_TARGET_DETAIL=false and GIT_TYPE=bitbucket
DESTINATION_BASE_BRANCH=     # Required if SAME_TARGET_DETAIL=false

# Open AI env vars
OPENAI_API_MODEL=            # Optional; Default is gpt-4
OPENAI_API_KEY=              # Required if AI_TYPE=openai

# Vertex AI env vars
VERTEX_FINE_TUNE=            # Optional; Default is false, Supports [true, false]
VERTEX_PROJECT_ID=           # Required if AI_TYPE=vertexai
VERTEX_REGION=               # Required if AI_TYPE=vertexai and VERTEX_FINE_TUNE=true
VERTEX_BEARER_TOKEN=         # Required if AI_TYPE=vertexai
VERTEX_MODEL=                 # Required if AI_TYPE=vertexai; Supports [text-bison, code-bison,
codechat-bison]

# Azure Open AI env vars
AZURE_OPENAI_ENDPOINT=       # Required if AI_TYPE=azure_open_ai
AZURE_DEPLOYMENT_NAME=       # Required if AI_TYPE=azure_open_ai
AZURE_OPENAI_KEY=            # Required if AI_TYPE=azure_open_ai

# Open source env vars
OPEN_SOURCE_MODEL_ENDPOINT=   # Required if AI_TYPE=open_source_ai
OPEN_SOURCE_MODEL=            # Optional; Supports [meta-llama/Llama-2-13b-chat,
HuggingFaceH4/starchat-beta]

# Jira board env vars
JIRA_HOST_NAME=              # Required if TEST_TYPE=functional and BOARD_TYPE=jira
JIRA_EMAIL=                  # Required if TEST_TYPE=functional and BOARD_TYPE=jira
JIRA_TOKEN=                  # Required if TEST_TYPE=functional and BOARD_TYPE=jira

# Azure board env vars
AZURE_ORG=                   # Required if TEST_TYPE=functional and BOARD_TYPE=azure
AZURE_PROJECT=               # Required if TEST_TYPE=functional and BOARD_TYPE=azure
AZURE_TOKEN=                  # Required if TEST_TYPE=functional and BOARD_TYPE=azure

# Log env vars
LOG_SOURCE=                   # Optional; Default is elks
LOG_SOURCE_PATH=              # Optional; the log file path
LOG_ELASTICSEARCH_URL=        # Optional; the Elastic search URL
LOG_ELASTICSEARCH_USER=       # Optional; the Elastic search user name
```



```
# Improve test env vars
IMPROVE_TEST=          # Optional; Default is false, Supports [true, false]
FILE_PATH=             # Required if IMPROVE_TEST=true
USER_CONTENT=         # Required if IMPROVE_TEST=true
```

## Here's a description of each variable:

### # Git env vars

- `GIT_TYPE`: Specifies the type of Git repository. Default value is "github"  
Supported values: "github", "gitlab", "azure", "bitbucket". (Optional)
- `HOSTED_TYPE`: Where the git platform is accessible. Default is "cloud", supports "cloud" and "hosted". (Optional)
- `GIT_HOSTED_URL`: URL of the hosted git platform. (Required if `HOSTED_TYPE="hosted"`)
- `USE_SSH`: SSH based auth for Git. Default is "false". Supports "true", "false". (Optional)
- `LOCAL_PROJECT_PATH`: Path to your workspace (Required if `GIT_TYPE` is "local")
- `SOURCE_GIT_TOKEN`: A token for authenticating the specific source Git repository. (Required)
- `SOURCE_GIT_CLONE_URL`: the source repo clone URL (Optional)
- `SOURCE_OWNER_NAME`: The name of the source repository owner (Git username). (Required)
- `SOURCE_REPO_NAME`: The name of the source repository. (Required)
- `SOURCE_REPO_ID`: The ID of the source repository. (Required for `GIT_TYPE="gitlab"`)
- `SOURCE_PROJECT_NAME`: The name of the source project. (Required for `GIT_TYPE="azure"`)
- `SOURCE_PROJECT_ID`: The ID of the source project . (Required for `GIT_TYPE="bitbucket"`)
- `SOURCE_BASE_BRANCH`: The base branch that is to be tested in the source repository. (Required)
- `SOURCE_RELATIVE_DIRECTORY`: The relative directory path within the source repository.
- `SAME_TARGET_DETAIL`: Set to true if the destination git details are same as source git details. Default value is "true", Supports "true" and "false". (Optional)
- `DESTINATION_GIT_TOKEN`: A token for authenticating the specific destination Git repository. (Required if `SAME_TARGET_DETAIL=false`)
- `DESTINATION_GIT_CLONE_URL`: the destination repo clone URL (Optional)
- `DESTINATION_OWNER_NAME`: The name of the destination repository owner (Git username). (Required if `SAME_TARGET_DETAIL=false`)
- `DESTINATION_REPO_NAME`: The name of the destination repository. (Required if `SAME_TARGET_DETAIL=false`)
- `DESTINATION_REPO_ID`: The ID of the destination repository. (Required if `SAME_TARGET_DETAIL=false` and `GIT_TYPE="gitlab"`)
- `DESTINATION_PROJECT_NAME`: The name of the destination project. (Required if `SAME_TARGET_DETAIL=false` and `GIT_TYPE="azure"`)
- `DESTINATION_PROJECT_ID`: The ID of the destination project . (Required if `SAME_TARGET_DETAIL=false` and `GIT_TYPE="bitbucket"`)
- `DESTINATION_BASE_BRANCH`: The base branch in which the test code is to be pushed in the destination repository. (Required if `SAME_TARGET_DETAIL=false`)

## # Open AI env vars

- `OPENAI_API_MODEL`: Specifies the type of the OpenAI API model.  
Supported values: "gpt-4", "gpt-3.5-turbo" etc. ( This models availability depends on the `OPENAI_API_KEY` ).  
Default value: "gpt-4". (Optional)
- `OPENAI_API_KEY`: The API key for accessing the OpenAI API. (Required if `AI_TYPE="openai"`)

## # AZURE Open AI env vars

- `AZURE_OPENAI_ENDPOINT`: API Endpoint to access Azure Open AI. (Required if `AI_TYPE="azure_open_ai"`)
- `AZURE_DEPLOYMENT_NAME`: Name of Azure Open AI deployment (Required if `AI_TYPE="azure_open_ai"`)
- `AZURE_OPENAI_KEY`: The API key for accessing the Azure Open AI API (Required if `AI_TYPE="azure_open_ai"`)

## # Vertex AI env vars

- `VERTEX_PROJECT_ID`: The ID of the Vertex project. (Required if `AI_TYPE="vertexai"`)
- `VERTEX_REGION`: The region where the Vertex project is located (example "us-central1").  
(Required if `AI_TYPE="vertexai"` and `VERTEX_FINE_TUNE="true"`)
- `VERTEX_BEARER_TOKEN`: The bearer token for accessing the Vertex API. (Required if `AI_TYPE="vertexai"`)
- `VERTEX_MODEL`: The name of the Vertex model to use. (Required if `AI_TYPE="vertexai"`)  
Supported values: "text-bison", "code-bison". (Required if `AI_TYPE="vertexai"`)
- `VERTEX_FINE_TUNE`: Indicates whether fine-tuning is enabled for the model.  
Supported values: "true", "false". (Optional)  
Default value: "false".

## # Open Source AI env vars

- `OPEN_SOURCE_MODEL_ENDPOINT`: API Endpoint to access Open Source AI model. (Required if `AI_TYPE="open_source_ai"`)
- `OPEN_SOURCE_MODEL`: The name of the Open Source model to use. (Optional)  
Supported values: "meta-llama/Llama-2-13b-chat", "HuggingFaceH4/starchat-beta".

## # Jira board env vars

- `JIRA_EMAIL`: The email address associated with your Jira account. (Required if `TEST_TYPE="functional"` and `BOARD_TYPE="jira"`)
- `JIRA_HOST_NAME`: The hostname of your Jira instance. (Required if `TEST_TYPE="functional"` and `BOARD_TYPE="jira"`)
- `JIRA_PASSWORD`: The password for your Jira account. (Required if `TEST_TYPE="functional"` and `BOARD_TYPE="jira"`)

## # Azure board env vars

- `AZURE_ORG`: The organization associated with your Azure Devops account. (Required if `TEST_TYPE="functional"` and `BOARD_TYPE="azure"`)
- `AZURE_TOKEN`: The access token for authenticating with Azure Devops. (Required if `TEST_TYPE="functional"` and `BOARD_TYPE="azure"`)
- `AZURE_PROJECT`: The name of the Azure Devops project. (Required if `TEST_TYPE="functional"` and `BOARD_TYPE="azure"`)

## # Log env vars

- `LOG_SOURCE`: origin from where the logs are generated. (Optional)  
Default value: "elks".
- `LOG_SOURCE_PATH`: location where the log files are stored. (Optional)
- `LOG_ELASTICSEARCH_URL`: The URL for the Elasticsearch. (Optional)
- `LOG_ELASTICSEARCH_USER`: A user name for accessing Elasticsearch resources. (Optional)
- `LOG_ELASTICSEARCH_TOKEN`: Authentication used for accessing Elasticsearch resources. (Optional)
- `LOG_ELASTICSEARCH_API_KEY`: The API key to authenticate and authorize access to Elasticsearch APIs. (Optional)

## # Behavioural Test cases env vars

- `BEHAVIORAL_TEST_TYPE`: The type of behavioural tests. Supports gherkin. Supports "gherkin". (Optional)
- `BEHAVIORAL_TEST_SOURCE`: location or the source of behavioural test source. Supports file, gitpath and url. (Optional)
- `BEHAVIORAL_TEST_FILE_PATH`: Path of the source file if source is file/gitpath, Relative path in case of gitpath. (Optional) `BEHAVIORAL_TEST_URL`: The URL of the source file if the source is URL. (Optional)

## # API Spec env vars

- `API_SPEC_TYPE`: The type of API specification. Supports Swagger and Postman. (Optional)
- `API_SPEC_SOURCE`: location or the source of api. Supports file, gitpath and url. (Optional)
- `API_SPEC_FILE_PATH`: Path of the source file if source is file/gitpath, Relative path in case of gitpath. (Optional)
- `API_SPEC_URL`: The URL of the source file if the source is URL. (Optional)

## # License env vars

- `ROOST_DOMAIN`: This is the Roost Domain, default value for this is app.roost.ai. Default is app.roost.ai. (Optional)
- `ROOST_TOKEN`: Authentication token for RoostGPT CLI. (Required)
- `TELEMETRY`: Send telemetry data to roost, no private information is shared. Default is "true", Supports "true", "false". (Optional)

## # Additional vars

- `TEST_NAME`: The name of the test. (Optional)  
Default value: "roost-test".
- `ROOST_DIR`: The directory path for Roost. (Optional)  
Default value: "/var/tmp/Roost/RoostGPT".
- `LANGUAGE`: The programming language of the source code. (Optional)  
Supported values: "java", "go", "python", "csharp", "node.js".  
Default value: "java".
- `AI_TYPE`: The AI model being used to generate tests. (Optional)  
Supported values: "openai", "vertexai", "open\_source\_ai", "azure\_open\_ai".  
Default value: "openai".
- `PACKAGES_TO_SCAN`: The packages to be scanned, supports single package or comma separated values.  
( Required for JAVA ex. com.example.product or com.example.product, com.example.controller )
- `ITERATION`: The iteration number to improve and run the test. (Optional)  
Default value: "2".
- `TRIGGER_ID`: The ID of the trigger. Unique id to identify multiple triggers. Default is epoch. (Optional)
- `TIMEOUT`: The timeout duration, after this the test generation will automatically stop. (Optional)  
Default value: "1 hour".
- `TEST_TYPE`: The type of test to generate. (Optional)  
Supported values: "unit", "functional", "artillery", "artillery-api-spec", "integration".  
Default value: "unit".
- `RETRIGGER`: Indicates whether to re-trigger existing test generated that from where it left. (Optional)  
Supported values: "true", "false".  
Default value: "false".
- `BOARD_TYPE`: The type of board to be used. (Optional)  
Supported values: "jira", "azure", "none".  
Default value: "jira".
- `GIT_PR_URL`: Git PR URL of the generated test. (Optional)

## # Improve Test env vars

- `IMPROVE_TEST`: This is used when we want to improve the generated test. (Optional)  
Supported values: "true", "false"  
Default value: "false".
  - `FILE_PATH`: location of the file containing test. (Required if `IMPROVE_TEST` = true.)
  - `USER_CONTENT`: Content Provided by the user for improving the generated test. (Required if `IMPROVE_TEST` = true.)
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