title: GitHub Extension

description: Add GitHub MCP Server as a Goose Extension

import Tabs from '@theme/Tabs';

import TabItem from '@theme/TabItem';

This tutorial covers how to add the [GitHub MCP Server](https://github.com/modelcontextprotocol/servers/tree/main/src/github) as a Goose extension to enable file operations, repository management, search functionality, and more.

:::tip TLDR

* *Command*\*

npx -y @modelcontextprotocol/server-github

* *Environment Variable*\*

"GITHUB\_PERSONAL\_ACCESS\_TOKEN": "<YOUR\_TOKEN>"

:::

**Configuration**

1. Run the `configure` command: ```sh goose configure ``` 2. Choose to add a `Command-line Extension` ```sh ┌   goose-configure │ ◇  What would you like to configure? │  Add Extension │ ◆  What type of extension would you like to add? │  ○ Built-in Extension // highlight-start │  ● Command-line Extension (Run a local command or script) // highlight-end │  ○ Remote Extension └ ``` 3. Give your extension a name ```sh ┌   goose-configure │ ◇  What would you like to configure? │  Add Extension │ ◇  What type of extension would you like to add? │  Command-line Extension │ // highlight-start ◆  What would you like to call this extension? │  github // highlight-end └ ``` 4. Enter the command ```sh ┌   goose-configure │ ◇  What would you like to configure? │  Add Extension │ ◇  What type of extension would you like to add? │  Command-line Extension │ ◇  What would you like to call this extension? │  github │ // highlight-start ◆  What command should be run? │  npx -y @modelcontextprotocol/server-github // highlight-end └ ``` 5. Obtain a [GitHub Personal Access Token](https://github.com/settings/personal-access-tokens) and paste it in. :::info When creating your access token, you can specify the repositories and granular permissions you'd like Goose to have access to. ::: ```sh ┌   goose-configure │ ◇  What would you like to configure? │  Add Extension │ ◇  What type of extension would you like to add? │  Command-line Extension │ ◇  What would you like to call this extension? │  github │ ◇  What command should be run? │  npx -y @modelcontextprotocol/server-github // highlight-start ◆  Would you like to add environment variables? │  Yes │ ◇  Environment variable name: │  GITHUB\_PERSONAL\_ACCESS\_TOKEN │ ◇  Environment variable value: │  ▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪ │ ◇  Add another environment variable? │  No // highlight-end └  Added github extension ``` 1. Click `...` in the upper right corner 2. Click `Settings` 3. On `Extensions` section, click the `Add` link 4. On the `Add Extension Manually` modal, enter the following: \* \*\*Type\*\*: `Standard IO` \* \*\*ID\*\*: `gh-mcp` (\*\_set this to whatever you want\_\*) \* \*\*Name\*\*: `github` (\*\_set this to whatever you want\_\*) \* \*\*Description\*\*: `GitHub MCP Server` (\*\_set this to whatever you want\_\*) \* \*\*Command\*\*: `npx -y @modelcontextprotocol/server-github` \* \*\*Environment Variables\*\* \* \*\*Name\*\*: `GITHUB\_PERSONAL\_ACCESS\_TOKEN` \* \*\*Value\*\*: (\*\_Obtain a [GitHub Personal Access Token](https://github.com/settings/personal-access-tokens) and paste it in.\_\*) :::info When creating your access token, you can specify the repositories and granular permissions you'd like Goose to have access to. ::: \* Click `Add` button 5. Click `Add Extension` button

**Example Usage**

When creating my [GitHub Personal Access Token](https://github.com/settings/personal-access-tokens), I gave it the following access:

* Repository: [goose-demo](https://github.com/angiejones/goose-demo)
* Read access to metadata
* Read and Write access to code, commit status, issues, and pull requests
* *Goose Prompt*\*

create a new branch called hello-world in my angiejones/goose-demo repository. Update the README.md file to say "this was written by goose" and commit it. Open a pull request with your changes.

* *Output*\*

I'll help you create a new branch, update the README, and open a pull request. Let me break this down into steps:  
  
1. First, let's create the new branch called "hello-world" in your repository  
  
2. Then update the README.md file  
  
3. Finally, create a pull request  
  
Let me execute these steps:  
  
1. Creating the new branch:  
  
─── create\_branch | github ──────────────────────────  
  
branch: hello-world  
  
owner: angiejones  
  
repo: goose-demo  
  
2. Now, updating the README.md file in the new branch:  
  
─── create\_or\_update\_file | github ──────────────────────────  
  
branch: hello-world  
  
content: this was written by goose  
  
message: Update README.md with Goose message  
  
owner: angiejones  
  
path: README.md  
  
repo: goose-demo  
  
3. Finally, creating the pull request:  
  
─── create\_pull\_request | github ──────────────────────────  
  
base: main  
  
body: ...  
  
head: hello-world  
  
owner: angiejones  
  
repo: goose-demo  
  
title: Update README.md  
  
Great! I've completed all the requested tasks:  
  
1. Created a new branch called "hello-world"  
  
2. Updated the README.md file with the text "this was written by goose"  
  
3. Created a pull request to merge these changes into the main branch  
  
You can view the pull request at: https://github.com/angiejones/goose-demo/pull/1  
  
The pull request is now ready for your review. Would you like me to do anything else with it?