Git Version Control

(*cPanel >> Home >> Files >> Git™ Version Control*)

Overview

The *Git™ Version Control* feature allows you to easily host Git repositories on your cPanel account. You can use Git to maintain any set of files (for example, a website's files and assets, a software development project, or simple text files). For more information, read our Guide to Git documentation and Git's documentation.

> ⚠️ **Notes:**
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> - If your cPanel account includes shell access, you can also use Git from the command line.
>   - **Without** shell access, you can **only** create, clone, delete, and view repositories.
>   - You can use cPanel's *Terminal* interface (*cPanel >> Home >> Advanced >> Terminal*) to access the command line from within the cPanel interface.
>   - For more information, read our Guide to Git - Host Git Repositories on a cPanel Account documentation.
> - The following tasks **require** that you use the command line:
>   - SSH configuration in order to clone private repositories. For more information, read our Guide to Git - Set Up Access to Private Repositories documentation.
>   - The use of multiple remote repositories. We recommend this method for advanced Git users **only**.

If you add or remove Git repositories via the command line, you may see an incorrect list of repositories in this interface.

Related Documentation

- Gitweb
- Git Version Control

For Hosting Providers

- Guide to Git
- Guide to Git - For System Administrators

Repositories

> ⚠️ **Note:**
>
> When you clone a repository, the system may require a large amount of time to complete. While the system clones the repository, the list of repositories will disable the options for the repository and will **only** display the repository name and path.

The *Repositories* table lists the following information for all of your cPanel account's Git repositories:

Column	Description
Repository	The repository's display name.
Repository Path	The repository's directory.
	You can also perform the following actions: - *Manage* — Click to update the repository's cPanel-managed settings. - *History* — Click to open the Gitweb interface in a new browser tab. Gitweb allows you to browse the repository and view its history and contents. For more information, read our Gitweb documentation. - *Delete* — Click to delete the repository. A confirmation message will appear. Click *Delete* again to delete the repository. > ⛔ **Warning:** > > When you delete a repository, the system **permanently deletes** the entire contents of the repository's directory. You **cannot** recover this data after deletion.

> ✅ **Remember:**
>
> When you clone a repository, the system may require a large amount of time to complete. While the system clones the repository, the list of repositories will disable the options for the repository and will **only** display the repository name and path.

Click the expand icon ( ) for a repository to view the following additional information and actions:

Item	Description
Active Branch	This section of the interface displays the following information: • The currently checked-out branch for the repository. • The following information about the active branch's HEAD commit (the most recent commit to the branch): • *SHA-1 Identifier* — The SHA-1 value for the HEAD commit. • *Commit Date* — The date of the HEAD commit. • *Commit Message* — The commit message for the HEAD commit. ⚠️ **Note:** If the repository does not include any commits for the current branch, the system displays a *Not available* message.
Repository Path	The repository's directory. Click *File Manager* to open the directory for the repository in cPanel's *File Manager* interface (*cPanel >> Home >> Files >> File Manager*) in a new browser tab.
Clone URL	The URL to use to clone the repository to another location (for example, your local computer, another cPanel account, or a GitHub account). Click *Copy* to copy this URL to your clipboard.

Create a repository

To create a new repository, perform the following steps:

1. Click *Create* in the top-right corner of the interface. A new interface will appear.
2. In the *Repository Name* text box, enter the desired display name for the repository.
3. In the *Repository Path* text box, enter the path to the directory that will contain the repository.

> ⚠️ **Notes:**
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> - If the specified directory does not currently exist, the system will create it.
> - If the specified directory already contains a repository, the system will automatically add it to the list of cPanel-managed repositories.
> - You **cannot** use the `.` or `..` directory references when you enter this path.
> - This feature enforces several restrictions on repository paths. For more information, read the Repository path restrictions section below.

4. Select whether you wish to clone an existing repository or create a new one:
   - To clone an existing repository, ensure that the *Clone a Repository* toggle is enabled. Then, enter the clone URL for the repository that you wish to clone in the *Clone URL* text box.
   - To create a new repository or add an existing repository to the list of cPanel-managed repositories, set the *Clone a Repository* toggle to disabled.
5. To immediately create another repository, select the *Create another* checkbox.
6. Click *Create*, or click *Return to Repository List* to return to the list of repositories.
   - If you selected the *Create Another* checkbox, a success message will appear. Repeat these steps to create or clone additional repositories.
   - If you did **not** select the *Create Another* checkbox, a new interface will display a confirmation message and a list of helpful Git commands.

Edit a repository

> ⛔ **Important:**
>
> - You **cannot** modify the repository path for existing repositories.
> - Whenever you modify repository settings, the system also pulls changes from the remote repository.

To modify an existing repository, perform the following steps:

1. Click *Manage* for the desired repository. A new interface will appear.
2. To update the currently checked-out branch, select the desired branch from the *Current Branch* menu.

⚠️

> ⚠ **Note:**
>
> This menu **only** lists remote branches. This menu will **not** list branches that only exist locally on your cPanel account.

3. To update the repository name, enter the new name in the *Repository Name* text box.
4. Click *Update*, or click *Return to Repository List* to return to the list of repositories.

Repository path restrictions

This feature enforces several restrictions for repository paths.

The `.git` directory

> ⊘ **Warning:**
>
> Do **not** modify or delete a repository's `.git` directory or its contents. Modifications to this data can irreparably break the repository.

The system globally denies public access to repositories' `.git` directories.

Character restrictions

You **cannot** create, delete, or view repositories with paths that include whitespace or any of the following characters:

```
\ * | " ' < > & @ ` $ { } [ ] ( ) ; ? : = % #
```

cPanel-controlled directories

You **cannot** create, delete, or view repositories in the following directories:

- `.cpanel`
- `.trash`
- `etc`
- `mail`
- `ssl`
- `tmp`
- `logs`
- `.cphorde`
- `spamassassin`
- `.htpasswds`
- `var`
- `cgi-bin`
- `.ssh`
- `perl5`
- `access-logs`