

Lesson Record: GitHub Setup & Verification

DATE

October 17, 2025

TOPIC

Creating and linking a GitHub repository using the command line and GitHub CLI on macOS.

OBJECTIVE

Ensure the 'devnotes' folder is successfully versioned, pushed, and tracked by GitHub as a private repository.

SUMMARY OF STEPS COMPLETED

1. LOCAL CONFIGURATION

- Verified Git installation and user credentials.
- Created the 'devnotes' directory for personal documentation and notes.
- Added several PDF learning materials (Git, Tailscale, RunPod, etc.).

2. GIT INITIALIZATION

Commands executed:

```
git init
git add -A
git commit -m "notes: added day 2 progress and new roadmap"
```

Confirmed files staged and committed locally.

3. ERROR ENCOUNTERED

Message:

fatal: The current branch main has no upstream branch.

Cause: Repository not yet linked to a remote on GitHub.

4. SOLUTION

Created remote repository using GitHub CLI:

```
gh auth login
gh repo create Brockmerkwan/dev-notes --private --source=. --remote=origin --push
```

GitHub CLI output confirmed success:

```
✓ Created repository Brockmerkwan/dev-notes on github.com
https://github.com/Brockmerkwan/dev-notes
```

"Unable to add remote origin" ignored (remote already existed).

5. VERIFICATION

Successful push confirmed:

```
To https://github.com/Brockmerkwan/dev-notes.git
* [new branch]      main -> main
```

branch 'main' set up to track 'origin/main'

```
git status → working tree clean
```

```
git branch -vv → local main tracking origin/main
```

RESULT

- Repository synchronized between local and GitHub
- Main branch tracking origin/main
- All PDFs and README ready for version control

RECOMMENDED DAILY ROUTINE

1. Pull latest changes:

```
git pull
```
2. Add new or modified files:

```
git add -A
```
3. Commit with descriptive message:

```
git commit -m "update: added new lesson notes"
```
4. Push to GitHub:

```
git push
```

One-time setup for convenience:

```
git config --global push.autoSetupRemote true
```

INSTRUCTOR NOTES

Brock successfully executed a complete local-to-GitHub sync workflow.

He learned to:

- Diagnose "no upstream" errors
- Fix remotes using GitHub CLI
- Authenticate and verify pushes
- Maintain a clean branch tracking structure

This marks a fully completed milestone in foundational Git and version management skills.