■ Git Mastery Bootcamp – CLOUD Team

Organization: Vynedam Sophrion
Week 1 — Git Mastery & Collaboration Workflow

■ Overview

Welcome to the Git Mastery Bootcamp. This document is specifically designed for the **CLOUD** team. Even if you're new to computers, follow these steps exactly as written and you'll be able to work in a professional Git environment.

■ Day 1 — Git Setup & Core Commands (Common)

1   Step 1: Install Git — Go to https://git-scm.com and download Git. During installation, just press 'Next' on all steps.

2   Step 2: Open Terminal (Mac/Linux) or Git Bash (Windows).

3   Step 3: Run these commands one by one (replace placeholders):

4   • git config --global user.name "Your Full Name" • git config --global user.email "your@email.com"

5   Step 4: Generate SSH Key — Run `ssh-keygen` and keep pressing Enter. Then copy the key from `~/.ssh/id_rsa.pub`.

6   Step 5: Add your SSH key to your GitHub account (Settings → SSH and GPG keys → New SSH Key).

7   Step 6: Clone your team repo (link will be shared). Example:

8   • git clone git@github.com:vynedamsophrion/team-repo.git

9   Step 7: Create your personal branch:

10   • git checkout -b interns/

11   Step 8: Create a folder with your name inside `interns/` and add a simple text file.

12   Step 9: Add and commit your file:

13   • git add . • git commit -m "Added my folder"

14   Step 10: Push your branch:

15   • git push origin interns/

16   Step 11: Open GitHub → Click 'Compare & pull request' → Create your PR.

17   Step 12: Pull latest main, rebase and resolve conflicts if needed.

■ Day 2 — Branch Strategy & Feature Development

■ **Team Task:** Create a Dockerfile or infrastructure script with step-by-step commits.
   ■ Tip: Make multiple small commits instead of one big commit. Push each branch separately and open a clean PR.

■ Day 3 — Conflict Resolution & Collaboration Simulation

1   Step 1: Ask your peer to edit the same file as you.

2   Step 2: Pull their branch using `git fetch` and `git checkout branch-name`.

3   Step 3: Make small changes and push.

4   Step 4: Try to merge your branch — this should cause a merge conflict.

5   Step 5: Open the file, look for `<<<<<<`, `======`, and `>>>>>>` markers.

6   Step 6: Decide which content to keep, edit manually, then run:

7   • git add . • git commit

8   Step 7: Push the resolved branch and merge the PR cleanly.

9   Step 8: Clean up merged branches with `git branch -d` (local) and `git push origin --delete` (remote).

■ Final Outcome

By the end of Day 3, you will be able to: • Work in a Git team repo confidently • Create and merge branches • Handle merge conflicts like a pro • Maintain repo hygiene • Collaborate with your peers

■ Reference Links

• https://docs.github.com/en/get-started/using-git/about-git •
https://www.youtube.com/watch?v=SWYqp7iY_Tc •
https://www.freecodecamp.org/news/git-cheat-sheet/ • https://learngitbranching.js.org

■ Pro Tip: Every command can be Googled. If something doesn't work, don't panic — ask your mentor or teammates. Everyone starts somewhere.