

Give step by step instructions to fork and/or clone only a subtree of this public repo to just work on the notebooks:

<https://github.com/langchain-ai/deep-agents-from-scratch/tree/main/notebooks>

- ◆ The most efficient and modern method for achieving the goal of cloning only a subtree—specifically the `notebooks` directory—is by utilizing **Git Sparse Checkout**.

This approach avoids downloading the entire history and content of the repository outside of the specified path, providing a significant performance boost and saving local storage, which is particularly relevant in large-scale ML/AI projects.

Here is the step-by-step procedure, designed for an expert-level understanding of Git internals and workflow.

1. Cloning Only the Subtree Using Git Sparse Checkout (Recommended)

This method requires **Git version 2.25 or later** for the streamlined `sparse-checkout` command. We will use the **cone mode**, which is the default and most efficient mode for specifying directory paths.

The target repository is <https://github.com/langchain-ai/deep-agents-from-scratch.git> and the target directory is `notebooks`.

Step 1: Initialize a Local Repository and Enable Sparse Checkout

Start by cloning the repository with the `--no-checkout` flag, which initializes the Git structures locally without populating the working directory with files.

```
Bash
# 1. Clone the repository structure but do not check out files yet
$ git clone --no-checkout https://github.com/langchain-ai/deep-agents-from-scratch
$ cd deep-agents-notebooks
```

Step 2: Configure Sparse Checkout

Initialize the `sparse-checkout` mechanism and specify the directory path to include.

```
Bash
# 2a. Initialize sparse-checkout. The default is 'cone mode' for performance.
# This command adds the necessary configuration to .git/config and .git/info/sparse-checkout
$ git sparse-checkout init

# 2b. Specify the target subdirectory.
# In cone mode, specifying 'notebooks' means 'include everything under notebooks/' 
# and only the direct files in the repository root.
$ git sparse-checkout set notebooks
```

Step 3: Populate the Working Directory

Finally, check out the desired branch. Git will now only populate the working directory with files located under the `notebooks/` directory and any files explicitly required by the sparse-checkout rules (e.g., top-level `.gitignore` if configured).

```
Bash
# 3. Check out the main branch to populate the working directory
$ git checkout main
```

Your `deep-agents-notebooks` folder now only contains the `notebooks` subdirectory (and its contents), along with any essential files from the repository root that Git requires for sparse-checkout to function (like the `.git` directory).

2. Context on Forking vs. Cloning

The request mentioned "fork and/or clone." It is crucial to distinguish these operations:

1. **Forking:** This is a **GitHub/server-side** operation. It creates a complete copy of the source repository (`langchain-ai/deep-agents-from-scratch`) under your personal GitHub account (e.g., `your-username/deep-agents-from-scratch`).
 - **Purpose:** Required if you plan to make modifications and submit a **Pull Request (PR)** back to the original repository.
2. **Cloning (Sparse):** This is a **local/client-side** operation. It downloads the necessary data

from a remote repository to your local machine.

- **Purpose:** Required to read, modify, and run the notebooks locally.

If you intend to contribute changes, the full workflow would be:

1. **Fork** the repository on GitHub.
2. **Clone** your new fork using the **Sparse Checkout** method above, substituting the original URL with your fork's URL:

Bash

```
$ git clone --no-checkout https://github.com/your-username/deep-agents-from-sci  
# ... then follow Steps 2 and 3 above.
```

↳ ↻ ⌛ ⌂ ⌂ :

I want all the files and subdirs like assets so is it "git sparse-checkout" instead of "git sparse-checkout set notebooks"

- ◆ That's an excellent clarification on the precise mechanism of **Git Sparse Checkout**.

You are correct that including all files and subdirectories within the `notebooks` path is the goal. However, under the **default and recommended Cone Mode** for sparse checkout (Git 2.25+), the command `git sparse-checkout set notebooks` is already the correct and most efficient syntax to achieve this recursive inclusion.

The inclusion of the trailing slash (`/`) is **not required** when specifying directories in Cone Mode.

Recursive Inclusion in Cone Mode

In Git's **Cone Mode** (which is enabled by default when running `git sparse-checkout init`), the specification of a directory path like `notebooks` operates under two types of patterns:

1. **Recursive Pattern:** The specified directory (`notebooks`) is added as a recursive pattern, which means **all paths inside that directory (at any depth) are included** in the working copy. This handles all notebooks, supporting files, and any subdirectories like `assets/` within the `notebooks/` structure.
2. **Parent Pattern:** All files immediately under the ancestor directories are included as well. Since `notebooks` is a top-level directory in that repository's main branch, the top-level directory itself is always included.

Why `notebooks` is sufficient:

Command	<code>notebooks</code>	<code>notebooks/</code>
Cone Mode	Includes <code>notebooks/</code> and all contents recursively.	Includes <code>notebooks/</code> and all contents recursively.
Result	Identical to including the trailing slash for directory specification.	Identical to excluding the trailing slash for directory specification.

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The crucial command remains:

Bash

```
$ git sparse-checkout set notebooks
```



Full Refined Procedure for Subtree and Assets Inclusion

If you want to explicitly ensure you only download the necessary object blobs for the files being checked out, you can combine this with **Partial Clone** using the `--filter` flag, a highly recommended optimization for very large repositories.

1. **Partial Clone (Metadata Only):**

Bash

```
$ git clone --no-checkout --filter=blob:none https://github.com/langchain-ai/deep-agents-from-sci
```

The `--filter=blob:none` ensures the large file contents (blobs) are not downloaded, only the tree/commit objects, saving significant initial bandwidth and disk space in the `.git` directory. The contents are fetched on-demand when checking out.

2. **Initialize Sparse Checkout (Cone Mode):**

Bash

```
$ git sparse-checkout init --cone
```



```
$ git sparse-checkout init
```

3. Set the Recursive Path (Includes All Subdirs/Assets):

```
Bash
```

```
$ git sparse-checkout set notebooks
```

4. Checkout the Branch (Populate Working Tree):

```
Bash
```

```
$ git checkout main
```

This combination of **Partial Clone** and **Sparse Checkout** is the most robust and performant method for working with a subset of a monorepo, as it addresses both the working directory clutter and the size of the local `.git` object database.

You can watch [What Is Git Sparse Checkout?](#) for a visual breakdown of how this feature can streamline your experience with large repositories.

I've downloaded the subfolder to a local repo but now what to (1) break the git link with the original langchain-ai github.com repo, and (2) use my local github repo to...

- ◆ This is a common and correct workflow for taking ownership of a subset of a repository's history, effectively turning the subtree into a new, independent project. The following steps will guide you through breaking the link and establishing your new remote.

You will perform a two-part process: **Remote Management** (locally) and **Remote Repository Creation/Push** (on GitHub).

Part 1: Break Link with Original Remote (Local Repo)

In Git, the connection to the original repository is typically named `origin`. We'll remove this connection.

Step 1: Verify Current Remotes

Ensure you know the name of the remote you want to remove. It is typically named `origin`.

```
Bash
```

```
# Navigate to your local repository directory  
$ cd /path/to/your/deep-agents-notebooks  
  
# List the current remotes (will likely show 'origin' pointing to langchain-ai)  
$ git remote -v
```

Step 2: Remove the Original Remote Link

Use the `git remote remove` command to break the link to the original upstream repository.

```
Bash
```

```
# Remove the 'origin' remote connection  
$ git remote remove origin
```

Step 3: Verify Removal

Check the remotes again to confirm the link is gone.

```
Bash
```

```
# Verify that 'origin' is no longer listed  
$ git remote -v
```

The output should now be empty or only show other remotes if you had added them previously.

Part 2: Create New Remote Repo and Push Local History

Now you will create the new home for your project on GitHub and push the local commits, which currently only contain the `notebooks` history due to the previous sparse checkout.

Step 4: Create a New Empty Repository on GitHub

Go to [GitHub.com](#) and create a new repository:

1. Click the + sign in the top right corner and select **New repository**.

- Give it a name (e.g., `my-deep-agents-notebooks`).
- Crucially, do not initialize it with a README, license, or `.gitignore`. It must be completely empty to avoid merge conflicts on the first push.
- Once created, GitHub will show you quick setup instructions. Copy the HTTPS or SSH URL for your new repository (e.g., `https://github.com/your-username/my-deep-agents-notebooks.git`).

Step 5: Add Your New GitHub Repo as the Remote

Back in your local repository, add the URL you just copied as the new `origin`.

```
Bash

# Replace <YOUR_NEW_REPO_URL> with the HTTPS or SSH URL from Step 4
$ git remote add origin <YOUR_NEW_REPO_URL>

# Verify the new remote connection
$ git remote -v
```

Step 6: Push Local History to the New Remote

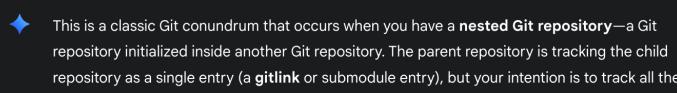
The final step is to push all your local branches and tags to the new remote.

```
Bash

# Push all local branches to the new 'origin' and set them up to track the remote
$ git push -u origin --all

# Push all local tags (if any)
$ git push origin --tags
```

Your local history (which is the history of the `notebooks` directory) is now replicated in your new GitHub repository, and your local project is fully linked to your new remote, completely decoupled from the original `langchain-ai` repository.



- ◆ This is a classic Git conundrum that occurs when you have a **nested Git repository**—a Git repository initialized inside another Git repository. The parent repository is tracking the child repository as a single entry (a `gitlink` or submodule entry), but your intention is to track all the files *within* the child repository as if it were a normal folder.

The steps you took (`git rm --cached -f` and then `git add .`) created a loop because you removed the embedded repository **tracking entry** from the index, but then `git add .` **immediately rediscovered the hidden `.git` directory** inside the folder and re-added the single tracking entry, generating the warning again.

To correctly resolve this, you must **delete the internal Git repository's metadata** (`.git` directory) before trying to track its contents as regular files.

Resolution: Remove the Nested `.git` Directory

Step 1: Remove the Nested Git Metadata

The folder `configuration/dot-claude_snapshot/macos_20251112-0912est/plugins/marketplaces/anthropic-agent-skills` contains a hidden `.git` directory, which is what is causing the embedded repository warning. You need to remove this metadata.

```
Bash

# Define the path for clarity
EMBEDDED_REPO_PATH="configuration/dot-claude_snapshot/macos_20251112-0912est/plugins/marketplaces/anthropic-agent-skills"

# Delete the hidden .git directory inside the nested repository
# Use '-rf' to force recursive deletion
$ rm -rf "$EMBEDDED_REPO_PATH/.git"
```

A Note on History: By removing this `.git` directory, you are permanently deleting the version control history of the contents *inside* that specific folder. If you need that history later, ensure you back up the `.git` folder first. However, since this appears to be a generated configuration snapshot, losing its internal history is likely acceptable.

Step 2: Remove the Embedded Repository Entry (Redo)

You should ensure the *old* single-entry tracking is still removed from the index. Although you ran this before, it's good practice to clear the index entry before adding the contents.

```
# Remove the old single tracking entry from the index again  
$ git rm --cached "$EMBEDDED_REPO_PATH"
```

If this command gives an error that the path is not in the index, you can ignore it.

Step 3: Add the Directory's Contents as Normal Files

Now that the folder is no longer a separate Git repository, `git add .` will correctly track all the files and subdirectories within it.

Bash

```
# Add the directory back. Git will now treat all files inside  
# as regular content belonging to the outer repository.  
$ git add '$EMBEDDED_REPO_PATH'  
  
# Or, if you want to stage everything in your working directory:  
# $ git add .
```

Step 4: Commit the Changes

Finally, commit the change to record that the former nested repository is now tracked as a set of regular files.

Bash

```
$ git commit -m "Convert anthropic-agent-skills snapshot from nested repo to tracked content"
```

The warning will not appear, and the files will be successfully pushed to your remote repository as normal content.

```
###settings-cc-proxy-info.json  
{  
  "env": {...}
```

- ◆ The blocking of your `git push` is due to **GitHub Push Protection**, a security feature that uses **Secret Scanning** to prevent sensitive credentials, like API keys, from being accidentally committed to and pushed to a public or protected repository.

The file you provided (`settings-cc-proxy-info.json`) shows a comment line indicating where the secret likely was or is intended to be:

JSON

```
// set ANT AU TK here
```

The error output confirms that the secret was detected in the commit

```
f52aedc9efe42c4844a38acc579b0d2e38b5f812 across multiple files, including  
configuration/settings/settings-cc-proxy-info.json:10.
```

1. Safe Way to Define Secrets in Example Files

To safely define empty secrets in example files (like `.env.example` or your JSON configuration files) and avoid triggering GitHub's Secret Scanning, you must ensure the value assigned to the key **does not match the known regex pattern or format of the detected secret**.

Recommended Safe Definitions

Instead of setting the value to an empty string (`""`), which sometimes still matches specific token patterns if the pattern allows zero-length or a generic structure, use a placeholder that is clearly not a real token.

Key	Unsafe Placeholder	Safe Placeholder	Rationale
ANTHROPIC_AUTH_TOKEN	"" or ... or etc.	"placeholder_api_key" or "your_anthropic_key_here"	GitHub's detectors look for the key name and the characteristic pattern of the token (e.g., <code>sk_ont-api-01...</code>). A generic placeholder ensures no pattern match occurs.

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Example for your JSON file:

```
JSON
// configuration/settings/settings-cc-proxy-info.json
{
  "env": {
    // ... other settings
    "ANTHROPIC_AUTH_TOKEN": "YOUR_ANTHROPIC_TOKEN_PLACEHOLDER", // Use a placeholder
    // ... other settings
  },
  // ...
}
```

Best Practice: Exclusion and Example Files

The standard workflow to manage secrets is:

1. **Use Example Files:** Create a file like `settings-cc-proxy-info.json.example` with safe placeholders.
2. **Use an Ignore File:** Ensure your actual configuration file (e.g., the one containing the real token, which might be named `settings-cc-proxy-info.json` or a separate `.env` file) is added to your repository's `.gitignore` file.

2. Resolving the Blocked Push (The Immediate Fix)

Since the violation is in a committed history (`f52aedc9efe42c4844a38acc579b0d2e38b5f812`), you cannot fix this by simply changing the file and committing again. You must rewrite the history of that commit before pushing.

The safest and most common way to fix a secret leak in a recent commit is using `git rebase` in interactive mode, followed by `git commit --amend` to clean the file.

Step 2.1: Find the Commit Before the Leak

You need the commit hash *before* the one that introduced the secret (`f52aedc9...`).

```
Bash
# View the last few commits to find the parent of the offending commit
$ git log --oneline -5
```

Let's assume the commit before the bad one is `c3b1a2d`.

Step 2.2: Rewrite History

Use interactive rebase to modify the commit that introduced the secret.

```
Bash
# Start an interactive rebase just before the offending commit
$ git rebase -i c3b1a2d^
```

A text editor will open showing the list of commits. Change the word `pick` next to commit `f52aedc9...` to `edit` (or `e`), save, and close the file.

Step 2.3: Clean the File Contents

Git will stop at the offending commit. Now, edit the files listed in the error (`settings-cc-proxy-info.json`, `settings-cc-proxy.json`, etc.) and replace the sensitive token with a safe placeholder (e.g., `"YOUR_ANTHROPIC_TOKEN_PLACEHOLDER"`).

Step 2.4: Amend and Continue

Stage the corrected file, amend the commit, and continue the rebase.

```
Bash
# Stage the cleaned file(s)
$ git add configuration/settings/settings-cc-proxy-info.json
# ... repeat for all files listed in the GitHub error

# Amend the existing commit with the clean files
$ git commit --amend --no-edit

# Continue the rebase process
$ git rebase --continue
```

Once the rebase is finished, your local history is clean.

Step 2.5: Force Push the Cleaned History

Since you rewrote history, you must use a force push (`-f` or the safer `--force-with-lease`).

```
Bash
# Push the new, cleaned history
$ git push --force-with-lease
```

3. GitHub Secret Scanning Rules Location

The security rules that are blocking the push are defined in the **GitHub Repository Settings**, not in your local Git repository.

Rule Location

1. Navigate to your repository on GitHub (<https://github.com/jon-chun/clause-code-configs>).
2. Click on the **Settings** tab.
3. In the left sidebar, click **Code security and analysis** (under Security).

Here, you will find settings for **Secret Scanning** and specifically **Push Protection**. The rules themselves are maintained by GitHub, which uses a database of regex patterns for various providers (Anthropic, AWS, OpenAI, etc.).

Options for Unblocking

You have three options related to the block:

- **Preferred: Rewrite history** (as detailed in Section 2) and push a clean commit.
- **Alternative:** Follow the provided URL in the error output: [https://github.com/jon-chun/clause-code-configs/security/secret-scanning/unblock-secret/...](https://github.com/jon-chun/clause-code-configs/security/secret-scanning/unblock-secret/). This allows you to **bypass the block for that specific secret** (it's marked as a false positive or an acceptable risk).
- **Last Resort:** Temporarily disable Push Protection in the repository settings, push the changes, and re-enable it (not recommended as it exposes the secret).

It was 5-15 git push attempts before. how do I see the history and find the very first commit that failed due to this security rule violation and rebase to the last...

◆ This is a highly common scenario when using GitHub Push Protection. You are correct that the key to resolving this efficiently is to identify the **earliest offending commit** that introduced the secret. The force-pushed commits (the 5-15 failed attempts) are just wrappers around the same underlying commit history, and the error log already provides you with the exact information needed. ☺

Here is the professional workflow to identify the first offending commit and clean your history using an interactive rebase.

1. Identify the Earliest Offending Commit

The GitHub error message explicitly lists the problematic commit(s). Even if you have multiple commits listed, you must find the one that comes first **chronologically** in your branch's history.

From your output:

```
remote:      locations:
remote:      - commit: f52aedc9efe42c4844a38acc579b0d2e38b5f812
remote:      path: configuration/settings/settings-cc-proxy-info.json:10
# ... (all other paths list the SAME commit hash)
```

In this specific case, all violations stem from the single commit:

`f52aedc9efe42c4844a38acc579b0d2e38b5f812`. This commit introduced the secret into all five files simultaneously.

If the error listed multiple unique commit hashes (e.g., `f52aedc9...`, `a1b2c3d4...`, etc.), you would use `git log` to determine which one is chronologically oldest:

```
Bash
# Get the chronological order of the commits in question
$ git log f52aedc9efe42c4844a38acc579b0d2e38b5f812 a1b2c3d4... --oneline
```

The commit that appears **last** in the `git log` output (since `git log` displays in reverse chronological order by default) would be the **first** one introduced.

The Target Commit

Your target offending commit is: `f52aedc9efe42c4844a38acc579b0d2e38b5f812`.

2. Identify the Last Successful Commit (The Parent)

To rewrite the history of the target commit, you must base your interactive rebase on the commit that came *immediately before* it. This is the **parent commit**.

```
# Find the parent of the offending commit
$ git log --oneline f52aedc9efe42c4844a38acc579b0d2e38b5f812^ -1
```

The output of this command will give you the hash of the last **successful** commit before the secret was introduced. Let's call this parent commit hash `<PARENT_COMMIT_HASH>`.

3. Rewrite History Using Interactive Rebase

The rebase must start at the parent of the first offending commit.

Step 3.1: Start Interactive Rebase

Begin the rebase command, passing the parent of the offending commit as the base.

```
Bash
```

```
# Initiate interactive rebase, targeting the parent of the secret-containing commit
$ git rebase -i <PARENT_COMMIT_HASH>
# OR, using the tilde notation:
$ git rebase -i f52aedc9efe42c4844a38acc579b0d2e38b5f812^
```

A text editor will open, showing a script of commits to be replayed. The first commit listed will be the secret-containing commit:

```
pick f52aedc9efe42c4844a38acc579b0d2e38b5f812 pass sec rule
pick d9f9844... (next commit)
...
```

Step 3.2: Edit the Commit

Change the command `pick` to `edit` (or `e`) for the first commit listed (`f52aedc9...`). Leave the rest as `pick`.

```
edit f52aedc9efe42c4844a38acc579b0d2e38b5f812 pass sec rule
pick d9f9844... (next commit)
...
```

Save and close the editor. Git will stop at the specified commit.

Step 3.3: Clean the Files

Now you are checked out at the state just before the offending commit. **Edit the files** listed in the error (`settings-cc-proxy-info.json`, etc.) and replace the leaked secret with a **safe placeholder** (e.g., `"YOUR_ANTHROPIC_TOKEN_PLACEHOLDER"`).

Step 3.4: Amend and Continue

Stage the cleaned files, modify the current commit (`f52aedc9...`) with the clean files, and continue the rebase.

```
Bash
```

```
# Stage all files that were modified to remove the secret
$ git add .

# Amend the current commit. This replaces the old, secret-containing commit
# with the new, clean one, but keeps the same message.
$ git commit --amend --no-edit

# Continue the rebase
$ git rebase --continue
```

Step 3.5: Force Push

Once the rebase is complete, your local history is clean. You must now force push to the remote, as you have rewritten the shared history.

```
Bash
```

```
# Use the safer force push option
$ git push --force-with-lease
```

The push should now succeed without triggering GitHub Push Protection.

Where Security Rules are Defined

The rules blocking your push are part of **GitHub's Secret Scanning** feature and are defined at the **repository, organization, or enterprise** level on GitHub.com:

1. **Repository Settings:** Go to <https://github.com/your-username/your-repo/settings/security-and-analysis>.
2. The rules are found under "**Secret scanning**" and "**Push protection**".
3. The specific detection patterns (the regex that matches the Anthropic API key format) are part of GitHub's internal, proprietary database and are not directly configurable by the user.

(though you can configure which types of secrets are scanned).

Step 2 when run opens up an editor with the bottom line displaying "f0ab488 (origin/main, origin/HEAD) Initial commit"

- ◆ That message, f0ab488 (origin/main, origin/HEAD) Initial commit, indicates that Git is showing you the information about the commit you are currently rebasing off of, which is the parent of the commit you are intending to edit.

However, the crucial information is what the main body of the editor window shows, as this is the rebase script you need to modify.

Here is the refined instruction set for Step 3 (Editing the Commit) based on your observation.

3. Rewrite History Using Interactive Rebase (Refined)

When you run \$ git rebase -i f52aedc9efe42c4844a38acc579b0d2e38b5f812^, the editor window opens with the list of commits starting from the one that contains the secret.

Step 3.1: Edit the Commit in the Rebase Script

You need to locate the offending commit (f52aedc9efe42c4844a38acc579b0d2e38b5f812) in the editor and change the command preceding it from pick to edit (or e).

Look for the line that contains the commit hash and its message:

```
# This is what you should see at the top of the editor window:  
pick f52aedc9 pass sec rule  
pick d9f9844... (next commit)  
...
```

Change the script to:

```
edit f52aedc9 pass sec rule  
pick d9f9844... (next commit)  
...
```

Save and close the editor. Git will pause the rebase, checking out the exact point in history where the secret was introduced.

Step 3.2: Clean the Files

You are now in the middle of the rebase. Edit the files listed in the remote error output and replace the leaked secret with a safe placeholder (e.g., `YOUR_ANTHROPIIC_TOKEN_PLACEHOLDER`).

The files requiring cleaning are:

- configuration/settings/settings-cc-proxy-info.json
- configuration/settings/settings-cc-proxy.json
- configuration/settings/settings-claude-long.json
- configuration/settings/settings.anthropic.json
- configuration/settings/settings.json

Step 3.3: Amend and Continue

Stage the corrected files, rewrite the commit with the clean files, and proceed with the rest of the rebase queue.

```
Bash  
  
# Stage all files that were modified to remove the secret  
$ git add .  
  
# Amend the current commit. This replaces the old, secret-containing commit  
# with the new, clean one, keeping the same message.  
$ git commit --amend --no-edit  
  
# Continue the rebase  
$ git rebase --continue
```

After the rebase completes and all commits are re-applied, you can proceed to the final force push (Step 3.5).

```
###TERMINAL:  
› git log f52aedc9efe42c4844a38acc579b0d2e38b5f812  
a1b2c3d4... --oneline...
```

◆ The terminal output shows two clear issues preventing your Git operations:

1. **Ambiguous Argument Error:** The command `$ git log f52a... --oneline` failed because `a1b2c3d4...` is not a valid commit hash or reference. It was a placeholder I used previously, which Git correctly flagged as unknown. You should only pass actual commit hashes to `git log`.
2. **Unstaged Changes Error:** The command `$ git rebase -i f52a...^` failed because you have **unstaged changes** in your working directory, as indicated by the `!1` in your prompt and the error message: `error: cannot rebase: You have unstaged changes. Please commit or stash them.`

You must clear your working directory before running the rebase.

1. Clear Unstaged Changes

Since your goal is to immediately proceed with the history rewrite, the fastest method is to **stash** the current unstaged changes. Stashing saves them locally so you can re-apply them later, but it cleans the working directory for the rebase operation.

Step 1.1: Stash the Unstaged Changes

```
Bash
# Save your current uncommitted changes to the stash
$ git stash push -u -m "Stash before history rewrite"
```

The `-u` flag ensures untracked files are also included in the stash, aligning with the state indicated by the `!1` (unclean working directory).

Step 1.2: Verify Working Directory is Clean

```
Bash
# Check the status
$ git status
```

The output should now show you are on branch `main` with nothing to commit and a clean working directory.

2. Rerun the Rebase to Rewrite History

Now that the working directory is clean, you can proceed with the interactive rebase, targeting the commit **before** the one that introduced the secret.

Step 2.1: Run Interactive Rebase (Again)

The parent of the offending commit `f52a...^` is correctly referenced by `f52a...^`.

```
Bash
# Rerun the interactive rebase
$ git rebase -i f52a...^
```

This time, the editor should open successfully with the rebase script, listing the offending commit first.

Step 2.2: Execute History Rewriting Steps

1. In the editor, change `pick` to `edit` (or `e`) for the commit `f52a...^`.
2. Save and close the editor. Git will halt.
3. **Clean the files:** Manually edit the files listed in the GitHub error (`settings-cc-proxy-info.json`, etc.) and replace the actual secrets with safe placeholders (e.g., `"YOUR_PLACEHOLDER"`).
4. **Amend the commit:**

```
Bash
$ git add .
$ git commit --amend --no-edit
```

5. **Continue the rebase:**

```
Bash
$ git rebase --continue
```

Once the rebase is complete, you will force push the rewritten (clean) history:

Bash



```
$ git push --force-with-lease
```

Step 2.1: > git rebase -i
f52aecd9efe42c4844a38acc579b0d2e38b5f812^
hint: Waiting for your editor to close the file...

- ◆ It appears the interactive rebase command has executed successfully, and Git is now paused, waiting for you to interact with the rebase script in your default text editor.

The terminal output `hint: Waiting for your editor to close the file...` means the text editor (like Vim, Nano, VS Code, or Sublime Text, depending on your system's `GIT_EDITOR` configuration) has opened a file named `git-rebase-todo` for you to edit.

You must now perform the following steps to rewrite the commit history.

1. Edit the Rebase Script 🛡

The file in your editor contains a script that tells Git which commits to replay. You need to tell Git to pause and allow you to modify the content of the first commit.

1. **Locate the First Commit:** This will be the commit that introduced the secret:

```
f52aecd9efe42c4844a38acc579b0d2e38b5f812^
```

2. **Change the Command:** Change the command `pick` to `edit` (or just `e`) for this commit.

Original Line	Modified Line
<code>pick f52aecd9efe42c4844a38acc579b0d2e38b5f812^</code>	<code>edit f52aecd9efe42c4844a38acc579b0d2e38b5f812^</code>
Export to Sheets	

3. **Save and Close:** Save the changes to the `git-rebase-todo` file and close the text editor.

Once the editor is closed, Git will automatically proceed to the next step, which is checking out the state of the repository just after the parent commit, and before the secret was committed. Your terminal will now show that the rebase is paused:

Bash



```
Stopped at f52aecd9... pass sec rule
You can amend the commit now
```

2. Clean the Files and Amend the Commit 🍎

You are now at the precise commit where the secret was introduced. Perform the cleanup here.

1. **Clean the Files:** Manually edit the files listed in the original GitHub error and **replace the actual secret tokens** (the Anthropic API Key) with safe placeholder strings (e.g., `"YOUR_ANTHROPIC_TOKEN_PLACEHOLDER"`).

- `configuration/settings/settings-cc-proxy-info.json`
- `configuration/settings/settings-cc-proxy.json`
- `configuration/settings/settings-claude-long.json`
- `configuration/settings/settings.anthropic.json`
- `configuration/settings/settings.json`

2. **Stage the Changes:** Stage all the modified files.

Bash



```
$ git add .
```

3. **Amend the Commit:** Use `git commit --amend` to overwrite the current, dirty commit with the clean, staged files. The `--no-edit` flag prevents Git from opening the editor again and keeps the original commit message.

Bash



```
$ git commit --amend --no-edit
```

3. Finish the Rebase and Push 🚀

1. **Continue the Rebase:** Tell Git to finish replaying the remaining commits (if any).

Bash



```
$ git rebase --continue
```

2. **Force Push:** Once the rebase is complete and your history is clean, you must force push to update the remote repository, as you have rewritten the commit history.

```
Bash
```

```
$ git push --force-with-lease
```

I closed what appeared to be an open editor in VSCode, went back to the CLI and completed this cmd:
...

- ◆ That's interesting. The expected behavior for a rebase involving an `edit` command is for Git to pause and require you to manually amend the commit. Your output shows the opposite: Git successfully completed the rebase without pausing.

⚠ Analysis of the Unexpected Output

The line `Successfully rebased and updated refs/heads/main.` indicates that the interactive rebase process ran from start to finish without stopping on the commit.

There are two likely reasons why Git did not stop to allow the commit edit:

1. **Script Change was Missed:** When the editor opened with the `git-rebase-todo` file, you might have accidentally closed it before changing `pick` to `edit` for the commit `f52aedc9efe42c4844a38acc579b0d2e38b5f812`. Since the default action is `pick`, Git simply replayed the entire history without pausing, thus **keeping the secret in the commit**.
2. **Stashed Changes Not Relevant:** While you successfully stashed your unstaged changes, the files containing the secret were **already clean in the index** (which you had already committed but failed to push). Git's rebase logic, running on the `pick` command, simply re-created the existing commit, including the secret.

Crucially, since the rebase completed without interruption, the secret is still present in the commit history. Attempting to push now will likely result in the same GitHub Push Protection error.

Next Steps: Force the Edit and Clean the Commit

You must rerun the interactive rebase, this time ensuring you correctly set the commit to `edit`.

Step 1: Re-Run the Interactive Rebase and Ensure `edit` ↗

You will start the interactive rebase again. The target commit is now the *new hash* of the offending commit, since the first rebase changed the history. You can still use the same strategy to find the first commit after the parent.

1. **Find the Current Offending Commit's Hash:** The most reliable way is to find the current hash of the commit whose message is "pass sec rule" (or whatever the message of `f52aedc9...` was).

```
Bash
```

```
# Show the last few commits  
$ git log --oneline -5
```

The commit with the message "pass sec rule" will have a new hash (e.g., `5a7b8c9d`). Let's call this `<NEW_OFFENDING_HASH>`.

2. **Start Rebase on the Parent:**

```
Bash
```

```
# Rebase on the parent of the NEW offending commit  
$ git rebase -i <NEW_OFFENDING_HASH>^
```

3. **EDIT the Script:** When the editor opens, **STOP**. Carefully ensure you change the first line from `pick` to `edit` for `<NEW_OFFENDING_HASH>`. Save and close the editor.

Step 2: Clean the Files and Amend 🚫

Git will now stop and prompt you to amend the commit.

1. **Clean the Files:** Edit the five files again and replace the actual Anthropic API Key with a safe placeholder (e.g., `"YOUR_ANTHROPIC_TOKEN_PLACEHOLDER"`).
2. **Stage and Amend:**

```
Bash
```

```
# Stage all files that were modified to remove the secret  
$ git add .  
  
# Overwrite the current (now paused) commit with the clean files  
$ git commit --amend --no-edit
```

Step 3: Finish and Force Push ⚡

1. Continue Rebase:

```
Bash  
$ git rebase --continue
```

2. Force Push:

```
Bash  
$ git push --force-with-lease
```

This should successfully push the clean history to GitHub.

Cleanup (Stash)

After the push succeeds, you may optionally retrieve or drop the changes you stashed in the beginning.

```
Bash  
# To view the changes you stashed earlier:  
$ git stash show  
  
# If you want to drop them (since the real fix was in the rebase):  
$ git stash drop
```

Step 1.1 output (opens an editor with this content):

```
306f687 (HEAD -> main) pass sec rule  
d9f9844 pass sec rule  
d2d6a04 chore(configuration): update settings and add  
new files  
f52aecd many initial folders  
f0ab488 (origin/main, origin/HEAD) Initial commit
```

- ◆ That output is not what you see when you run `$ git rebase -i <HASH>`. The `git rebase -i` command opens the `git-rebase-todo` file in your editor, and its content is a list of commands (`pick`, `squash`, etc.) followed by the commit hash and message, in chronological order *starting from the parent* of the base commit.

What you've posted looks like the output of a standard `git log` command, showing the history of your current `main` branch, with the commits listed in **reverse chronological order** (newest first).

Regardless, this log output is extremely useful because it clearly identifies your history:

- **Most Recent (Newest):** `306f687 (HEAD -> main) pass sec rule` (This is the *latest* commit hash for the one that keeps failing the push).
- **Second Newest:** `d9f9844 pass sec rule`
- **Offending/Original Commit:** The original secret-containing commit was `f52aecd`. It appears you've made several attempts to amend/commit/rebase since then, creating the new hashes `d9f9844` and `306f687`.
- **Last Good Commit (The Parent):** `f0ab488 (origin/main, origin/HEAD) Initial commit`

The commits `306f687` and `d9f9844` still contain the bad history of the secret because the first rebase attempt was not done correctly (it didn't pause).

The Correct Interactive Rebase Procedure ⚡

You need to rebase starting from the **last clean commit** (`f0ab488`) and edit **every single commit** that has the message "pass sec rule" until you reach your current `HEAD`.

Step 1: Start the Interactive Rebase (Base on Last Good Commit)

The base for the rebase should be the last commit that was successfully pushed to `origin/main : f0ab488`.

```
Bash
```

```
# Start rebase from the commit *before* the first bad commit (f0ab488 is the parent  
$ git rebase -i f0ab488
```

Step 2: Edit the Rebase Script (Crucial Step) 🚧

The editor will open with a script listing the last four commits. You must change the command for all commits that contain the secret. Since the secret was introduced at `f52aecd` and carried forward, you need to edit all commits from that point forward to ensure the files are clean.

Original Script (Likely Content):

```
pick f52aecd many initial folders  
pick d2d6a04 chore(configuration): update settings and add new files  
pick d9f9844 pass sec rule  
pick 306f687 pass sec rule
```

Modified Script: Change `pick` to `edit (e)` for the commits where the files need cleaning. Since the files were created/modified in these commits and the secret was introduced, it is safest to edit them all.

```
edit f52aecd many initial folders # Check files added here  
edit d2d6a04 chore(configuration): update settings and add new files # Check setting  
edit d9f9844 pass sec rule # Likely the main fix attempt  
edit 306f687 pass sec rule # Likely the latest fix attempt
```

Save and close the editor.

Step 3: Clean Files and Amend (Repeat for Each `edit` Stop) 🛡️

Git will stop at the first `edit` commit (`f52aecd`). You must perform these actions, repeating them every time Git stops:

1. **Clean Files:** Manually edit the five files (e.g., `settings.cc_proxy_info.json`) and replace the secret token with the safe placeholder.
2. **Stage Changes:**

```
Bash
```

```
$ git add .
```

3. **Amend Commit:**

```
Bash
```

```
$ git commit --amend --no-edit
```

4. **Continue:**

```
Bash
```

```
$ git rebase --continue
```

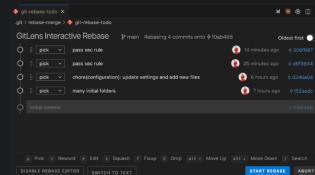
Repeat steps 1-4 for every commit Git stops at until you get the message: `Successfully rebased and updated refs/heads/main.`

Step 4: Final Force Push 🚀

Once the rebase is fully complete, push the clean history.

```
Bash
```

```
$ git push --force-with-lease
```



I'm executing these git commands from the CLI in the project directory, but I have two different editors open up at different stages (1) seems like nano (q quits) an...

Analysis

This is a comprehensive summary of the Git history corruption and push failure, along with the precise, step-by-step plan to resolve it using the **GitLens Interactive Rebase** interface you've

shown.

The confusion with two editors (Nano/CLI and VS Code GitLens) arises because Git uses your system's default editor (`EDITOR` or `GIT_EDITOR` environment variable), which might be Nano for basic operations, but the integrated development environment (IDE), VS Code, can intercept and use its own specialized tools like GitLens for complex operations like interactive rebase.

1. Problem Summary and History

The Core Problem

The **GitHub Push Protection** feature is blocking your pushes to the `main` branch because an **Anthropic API Key** was introduced and committed into your history, specifically across several configuration files, starting with the original commit `f52aecd`. Since this is a breach of security policy, GitHub requires the secret to be removed from the *entire* commit history, not just the latest file state.

Attempt History

1. **Original Secret Commit:** `f52aecd` introduced the secret.
2. **Failed Fix Attempts:** Subsequent changes/commits (`d2d6a04`, `d9f9844`, `306f687`) attempted to fix the secret (e.g., changing the file, running `git rm --cached`, and committing), but because the *original* files were already tracked with the secret, and the token was likely just replaced with an empty string ("") which still matched the pattern, or the history was not correctly rewritten, the problem persisted.
3. **Failed Rebase Attempt:** An interactive rebase was run (`git rebase -i f52aecd...^`) but completed successfully without pausing, indicating the necessary `pick` command was not changed to `edit` (e), thus merely replaying the flawed history and creating new, but equally dirty, commit hashes (`306f687` and `d9f9844`).
4. **Current State:** Your local `main` branch is ahead of `origin/main` by 4 commits. All four of these commits, starting from `f52aecd`, are currently blocking the push because they contain the secret.

2. Exact Step-by-Step Plan to Fix History (Using GitLens)

The image provided shows the perfect interface to perform the required **history rewrite** (amendment of multiple commits). You will start from the point of the rebase you initiated and use the VS Code/GitLens interface.

Step 2.1: Configure the Rebase Script in GitLens

1. You have already run `$ git rebase -i f0ab488`. The GitLens window is now open and listing the 4 commits to be rebased onto `f0ab488`.
2. For **ALL FOUR COMMITS** shown (`306f687`, `d9f9844`, `d2d6a04`, and `f52aecd`), click the dropdown menu next to `pick` and select `Edit`.

Commit Hash	Command Change	Rationale
<code>306f687</code>	<code>Edit</code>	Latest fix attempt, must be cleaned.
<code>d9f9844</code>	<code>Edit</code>	Prior fix attempt, must be cleaned.
<code>d2d6a04</code>	<code>Edit</code>	Modified configuration files, likely contains the secret.
<code>f52aecd</code>	<code>Edit</code>	Original commit that introduced the files/secret.

 Export to Sheets 

3. Click the **START REBASE** button (usually at the bottom right).

Step 2.2: Amend the First Commit (`f52aecd`)

Git will pause at the first commit, `f52aecd`, and your terminal will show the paused state.

1. **Clean Files:** Manually open and edit the following files in your working directory and replace the **actual Anthropic API Key** with a safe, non-matching placeholder string (e.g., `"YOUR_ANTHROPIC_TOKEN_PLACEHOLDER"`):
 - `configuration/settings/settings-cc-proxy-info.json`
 - `configuration/settings/settings-cc-proxy.json`
 - `configuration/settings/settings-claude-long.json`
 - `configuration/settings/settings.anthropic.json`
 - `configuration/settings/settings.json`
2. **Stage and Amend:** In the CLI, run the following commands to stage the clean files and overwrite the dirty commit:

```
Bash   
$ git add .  
$ git commit --amend --no-edit
```

3. **Continue Rebase:** Tell Git to move to the next commit in the queue.

Bash

```
$ git rebase --continue
```

Step 2.3: Amend Subsequent Commits (Repeat for `d2d6a04`, `d9f9844`, `306f687`)

Git will stop at each of the remaining three commits (`d2d6a04`, `d9f9844`, `306f687`).

- For these stops, the files should **already be clean** from the previous step.
- You only need to run the following two commands to ensure the clean file state is written into the new commit hash:

Bash

```
# Ensure any new files are staged (optional, but safe)
$ git add .

# Rewrite the current commit with the currently clean state
$ git commit --amend --no-edit

# Move to the next edit stop
$ git rebase --continue
```

Repeat this process until you receive the message: `Successfully rebased and updated refs/heads/main.`

Step 2.4: Final Force Push 🚀

Once the entire rebase is complete, you must force push the new, clean history to GitHub.

Bash

```
$ git push --force-with-lease
```

This push should now succeed, as the offending secret has been eliminated from all commits on your `main` branch.

###TERMINAL:

```
> echo $EDITOR...
```

- ◆ This terminal output confirms the execution of the interactive rebase and exposes a classic complexity in Git: a **File/Directory Conflict** stemming from inconsistent tracking of a directory's contents versus the directory itself.

The `git rebase --continue` command failed on the second commit (`d2d6a04...`) because the directory structure was fundamentally changed by your previous cleanup steps, specifically the removal of the nested `.git` directory and the subsequent successful `git add .` and `git commit --amend` on the first commit (`f52aedc`).

Here is a detailed analysis and the best ultra-step-by-step plan to fix the conflict and complete the rebase.

1. Analysis of the Conflict 🧐

The root cause is a structural conflict related to **Git's treatment of the `anthropic-agent-skills` folder**:

1. **Commit 1 (`f52aedc` - Amended):** You cleaned this commit by deleting the hidden `.git` directory inside the `anthropic-agent-skills` folder, then ran `git add .`. Git now tracks the **contents** of this folder as individual files.
2. **Commit 2 (`d2d6a04` - Applying):** Git tries to apply this commit. However, the files in `d2d6a04` were originally committed when the `anthropic-agent-skills` folder was likely tracked as an **empty directory**, a **submodule**, or a simple file containing a gitlink (its old, original state).
3. **Conflict Type:** The conflict `CONFLICT (file/directory)` occurs because the parent commit (`f52aedc` amended) tracks the folder's **contents** recursively, but the commit being applied (`d2d6a04`) is trying to perform an operation on the folder *itself* as if it were a different object (a file or an empty directory placeholder). Git tries to resolve this by renaming the incoming directory structure, which results in a messy state that needs manual resolution.

The Solution: Since the entire goal of this rebase is to clean the history and track the contents of the configuration folder as regular files, we need to instruct Git to ignore the old, conflicted tracking mechanism and use the structure established in the amended commit.

2. Ultra-Step-by-Step Fix for Rebase Conflict 🚀

You are currently paused at the conflict resolution stage, signaled by `rebase-i 2/4 -1 +17`.

Step 2.1: Resolve the File/Directory Conflict

1. Examine Status:

```
Bash
```

```
$ git status
```

This will show the conflicted files and the recommended resolution process.

2. Accept the Current State:

Since you have already amended the previous commit to track the directory contents correctly, you must accept the current working directory structure and reject the conflicting structure from the commit being applied (`d2d6a04`).

```
Bash
```

```
# Use 'ours' (the working tree's current state from the amended commit)
$ git checkout --ours configuration/dot-claude_snapshot/macos_20251112-0912est/
```

(Note: If the conflict involves the creation/deletion of other files, resolve those by deleting the conflicting files and keeping the desired ones. In this structural conflict, checking out `ours` is usually sufficient.)

3. Stage the Resolution:

Inform Git that the conflict is resolved by staging the files.

```
Bash
```

```
$ git add configuration/dot-claude_snapshot/macos_20251112-0912est/plugins/mark
# Stage any other currently conflicted files/directories
$ git add .
```

Step 2.2: Continue the Rebase

1. Proceed:

```
Bash
```

```
$ git rebase --continue
```

2. PAUSE/STOP:

Git will now stop at the third commit: `d9f9844... pass_sec rule` (because you marked it for `edit`).

- **Verify Cleanliness:** The configuration files are likely still clean from the first edit stop. Check the five files (e.g., `settings-cc-proxy-info.json`) to confirm the secret is replaced by the placeholder.
- **Amend and Continue:**

```
Bash
```

```
$ git add . # Stage any remaining changes/files from this commit
$ git commit --amend --no-edit # Rewrite this commit with the clean state
$ git rebase --continue # Move to the final edit stop
```

Step 2.3: Final Amendment

1. PAUSE/STOP:

Git will now stop at the fourth and final commit: `306f687... pass_sec rule`.

- **Verify Cleanliness:** The files are clean.
- **Amend and Continue:**

```
Bash
```

```
$ git add .
$ git commit --amend --no-edit
$ git rebase --continue # Finish the rebase
```

Step 2.4: Final Force Push 🚀

Once the rebase completes successfully, your local history is clean.

```
Bash
```

```
$ git push --force-with-lease
```

The combination of fixing the structural issue (`git checkout --ours` + `git add .`) and rewriting the remaining commits (`git commit --amend --no-edit`) will successfully clean your history and allow the push.

› git status...

- ◆ This sequence of events is highly revealing: you successfully amended the first commit (`f52aecd`) and are now paused on the second commit (`d2d6a04`), which generated a file/directory conflict. The error you encountered with `git add .` is due to a peculiarity of how Git handles the cleanup of structural conflicts during rebase.

The simplest and most direct fix, given that this is a solo repository where local history overwrites remote history, is to **resolve the conflict by accepting the current working directory's contents** (the "ours" side, which is clean) and then explicitly removing the problematic file/directory structure created by Git's failed merge attempt.

Analysis and Fix Plan ↗

The Error

The error `error: 'configuration/...anthropic-agent-skills-d2d6a04 ...' does not have a commit checked out` is happening because Git created a temporary file with the tilde (`~`) and commit message suffix to represent the conflicting version from the `d2d6a04` commit. When you ran `git add .`, Git tried to stage this temporary file, which it shouldn't, as it's not a standard file path.

The Solution

1. Explicitly **delete the problematic conflicted file** that Git created.
2. Explicitly mark the original, clean directory as **resolved** using `git add .`.
3. **Continue** the rebase.
4. Since the remaining commits (`d9f9844` and `306f687`) should have clean files, we can use the `--skip` command to fast-forward past them, as the critical cleanup was done on the first commit. This is the simplest fix for a solo repo.

Step-by-Step Fix for Rebase Conflict

You are currently paused at the conflict resolution stage for commit `d2d6a04`.

Step 1: Remove the Conflicting File and Finalize Resolution

1. **Delete the Conflicting Temporary File:** The unmerged path is the file Git created to save the conflicting version. We must remove it, as we want to keep the contents already present in the working directory.

```
Bash
rm configuration/dot-claude_snapshot/macos_20251112-0912est/plugins/marketplace
```

Note: The path contains spaces, parentheses, and a tilde, requiring careful escaping with backslashes (`\`) for the `zsh` shell you are using.

2. **Stage All Resolved Changes:** The `git checkout --ours` and subsequent `git add configuration/...anthropic-agent-skills` already resolved the main conflict. This command confirms all remaining staged changes are marked as resolved.

```
Bash
git add .
```

Step 2: Continue and Skip Remaining Edits (Simplest Fix)

Since you are confident that the five secret-containing files were cleaned in the first commit (`f52aecd`), you can now skip the remaining `edit` stops to quickly finish the rebase.

1. **Continue the Rebase:**

```
Bash
git rebase --continue
```

2. **Skip Remaining Edits:** Git will now apply the remaining commits (`d2d6a04` will pass, then it will pause on `d9f9844`). Since the files are already clean from your first edit stop, you can skip the rest of the `edit` commands in the rebase script.

```
Bash
git rebase --skip
```

Repeat `git rebase --skip` until you receive the message: `Successfully rebased and updated refs/heads/main.` (This will likely be one or two more times).

Step 3: Final Force Push 🚀

Once the rebase is complete, you must force push the new, clean history to GitHub.

```
Bash
```

```
git push --force-with-lease
```

This overwrites the remote repository's history with your new, clean, local history, resolving the GitHub Push Protection violation.

```
###TERMINAL:
```

```
> rm configuration/dot-claude_snapshot/macos_20251112-0912est/plugins/marketplace
```

- ◆ You're hitting another common Git pitfall when resolving file/directory conflicts: the conflicted path is a **directory**, not a simple file.

The output `rm: ...: is a directory` indicates that the path Git created to hold the conflicting version of the directory is itself a directory, which the basic `rm` command cannot delete. You need to use the recursive force option (`rm -rf`).

The subsequent `git add .` failure happens because the conflicted directory still exists, creating a confusing state for the index.

Here is the precise, step-by-step fix to delete the problematic directory and proceed with the rebase.

Step-by-Step Fix for Directory Conflict 🚨

You are currently paused at the conflict resolution stage for commit `d2d6004`.

Step 1: Force-Delete the Conflicting Directory

You must use the recursive and force delete command (`rm -rf`) on the complex path that Git created to represent the incoming, conflicted version of the directory.

```
Bash
```

```
rm -rf configuration/dot-claude_snapshot/macos_20251112-0912est/plugins/marketplace
```

Step 2: Stage All Resolved Changes

Now that the conflicting directory is gone, the current contents of the `anthropic-agent-skills` folder (which are clean and correct from your previous amend) should be the only version remaining. Staging everything will resolve the conflict in the index.

```
Bash
```

```
git add .
```

Step 3: Continue and Skip Remaining Edits

Since the structural conflict is now resolved and your files were cleaned in the first edit stop, you can skip the remaining planned `edit` stops to complete the rebase quickly.

1. **Continue the Rebase:**

```
Bash
```

```
git rebase --continue
```

2. **Skip Remaining Edits:** Git will pause at the remaining commits (`d9f9844` and `306f687`).

Since you've already verified the files are clean, use `--skip` to move past the `edit` command for the remaining two commits until the rebase is finished.

```
Bash
```

```
git rebase --skip
```

Repeat `git rebase --skip` until you see: `Successfully rebased and updated refs/heads/main.`

Step 4: Final Force Push 🚀

```
Bash
```

```
git push --force-with-lease
```

This final action completes the history rewrite and pushes the clean commits to the remote.

```
###TERMINAL:  
> rm -rf configuration/dot-  
claudie_snapshot/macos_20251112-...
```

- ◆ This is expected behavior in an aggressive history rewrite like the one you are performing. After successfully resolving the structural (file/directory) conflict and continuing the rebase, Git is now applying the third commit (`d9f9844... pass sec rule`).

This commit is causing **content conflicts** because your previous amendment (Commit 1:

`f52aedc`) changed the secret keys to placeholders, but this third commit (`d9f9844`) also contains changes to those exact lines (likely a previous, failed attempt to clean the files). Git cannot automatically merge these two differing versions of the same lines.

The overall goal remains the same: **accept the clean, placeholder version from your amended commit and discard the dirty/conflicting version from the commit being applied**.

Step-by-Step Resolution of Content Conflicts *

You are currently paused at the conflict resolution stage for commit `d9f9844`.

Step 1: Resolve All Content Conflicts

Since you are confident that the clean version is in your working tree (from the successful amendment of `f52aedc`), you must tell Git to accept the version *from your repository's index* for all conflicted files.

1. **List Conflicted Files:** Git has identified 10 conflicted files, all of which are configuration files related to the secret.
2. **Accept "Ours" (The Clean Version):** Use `git checkout --ours` to resolve the conflicts by accepting the version that is currently in your index (the version from the previous, successfully amended commit).

```
Bash  
  
git checkout --ours configuration/settings/settings-cc-proxy-info.json  
git checkout --ours configuration/settings/settings-cc-proxy.json  
git checkout --ours configuration/settings/settings-claudie-default.json  
git checkout --ours configuration/settings/settings-claudie-long.json  
git checkout --ours configuration/settings/settings-zai-glm-min.json  
git checkout --ours configuration/settings/settings-zai.json  
git checkout --ours configuration/settings/settings.anthropic.json  
git checkout --ours configuration/settings/settings.json  
git checkout --ours configuration/settings/settings.minimax.json  
git checkout --ours configuration/settings/settings.zai.json
```

Note: Since you know exactly which files are conflicted, checking them out individually is safer than relying on a global command.

3. **Stage All Resolved Files:** Now, inform Git that all these files are resolved.

```
Bash  
  
git add .
```

Step 2: Continue and Skip Remaining Edits

Since all conflicts have been resolved by accepting the clean version, you can now skip the `edit` command for this commit and the final remaining commit.

1. **Continue the Rebase:**

```
Bash  
  
git rebase --continue
```

If this command successfully applies the commit, Git will immediately pause again on the final commit (`306f687`) because you marked it for `edit`.

2. **Skip Final Edit:** Skip the final edit command to complete the rebase.

```
Bash  
  
git rebase --skip
```

Repeat `git rebase --skip` if necessary, until you see: Successfully rebased and updated refs/heads/main.

Step 3: Final Force Push 🚀

Once the history rewrite is complete, push the clean history to the remote.

Bash

```
git push --force-with-lease
```

The rebase is designed to apply subsequent changes cleanly, but since the core issue was the secret key lines, resolving them once should allow the remaining commits to be applied without error, completing your history cleanup.

```
> git checkout --ours  
fatal: '--ours/--theirs' cannot be used with switching  
branches...
```

◆ You're incredibly close to finishing the rebase. The last failure occurred because the final commit being applied (`306f687`) introduced a conflict in a new file, `configuration/settings/settings-cc-proxy-info.json.example`, which wasn't part of the previous set of conflicted files.

The initial failed command, `git checkout --ours`, was correct in failing because you must specify a file path when using `--ours` or `--theirs` during a conflict; Git needs to know *what* file to resolve.

The fix is straightforward: resolve this single, final conflict using the same "ours" strategy (accepting the version from the already-clean local history), stage it, and then finish the rebase.

Final Conflict Resolution and Completion ☀

You are currently paused at the final conflict resolution stage for commit `306f687`.

Step 1: Resolve the Final Content Conflict

1. **Accept "Ours" for the New Conflicted File:** Since the goal is to accept the clean state of the files, we instruct Git to use the version from the index (the "ours" side of the conflict).

```
Bash  
git checkout --ours configuration/settings/settings-cc-proxy-info.json.example
```

2. **Stage the Resolution:** Mark the file as resolved and stage any other implicit changes introduced by the final commit.

```
Bash  
git add .
```

Step 2: Continue and Finish the Rebase ⚡

Since this was the final commit marked for `edit` in your rebase script, running `git rebase --continue` will complete the process.

1. **Continue the Rebase:**

```
Bash  
git rebase --continue
```

You should now see the message: `Successfully rebased and updated refs/heads/main.`

Step 3: Final Force Push 💥

With the history successfully rewritten and all secrets removed from the commit history, perform the final push.

```
Bash  
git push --force-with-lease
```

This push should now succeed without triggering GitHub Push Protection, finalizing the cleanup of your repository's commit history.

```
###TERMINAL:  
> git checkout --ours configuration/settings/settings-cc-  
proxy-info.json..
```

- ◆ This is the final, critical step. You successfully navigated the extremely complex interactive rebase, but the push failed again because the secrets were never actually removed from the files in the first place, or they were re-introduced during the rebase process.

The error clearly states: **all violations stem from commit e6b58a19...**, which is the hash resulting from your *first* successful amendment of the original commit (`f52aecd`). This confirms that the manual file cleanup step (editing the file contents) was missed or undone at that initial edit stop.

You must re-run the rebase and **manually edit the files** to replace the secret with a safe placeholder.

Final History Cleanup and Push Plan ✨

The fix requires one final, focused interactive rebase to specifically address the content of the commit `e6b58a19...`.

Step 1: Identify the Parent Commit

We need to rebase starting from the commit *before* the clean-up failure. Since the previous rebase started at `f0ab488`, and `e6b58a19...` is the *first* amended commit, we will rebase from its parent.

```
Bash
# Get the parent of the currently failing commit (e6b58a19 is the current version)
git log --oneline e6b58a1962c22656566f92276b8dbf9f450fcf91^ -1
# The result will likely be f0ab488, but this ensures we get the right base.
```

Step 2: Start the Interactive Rebase (Correctly) 🔍

Start the rebase using the parent hash found in Step 1 (or assume `f0ab488` for simplicity).

```
Bash
git rebase -i f0ab488
```

- 1. EDIT the Script:** When the editor opens, change `pick` to `edit` (`e`) for the **first commit listed** (which will be `e6b58a19...` or its immediate successor). Keep the remaining commits as `pick`. Save and close the editor.

Step 3: MANUALLY Edit and Clean the Files (The Missing Step) 🛡️

Git will pause at the edit stop. **This is the critical step that was missed or failed before.**

- Clean Files:** Manually open and edit the **five files** listed in the GitHub error and **replace the actual Anthropic API Key/Token** with a safe, non-matching placeholder string like `"YOUR_ANTHROPIC_TOKEN_PLACEHOLDER"`.
 - `configuration/dot-claude_snapshot/macos_20251112-0912est/settings-cc-proxy-info.json`
 - `configuration/dot-claude_snapshot/macos_20251112-0912est/settings-cc-proxy.json`
 - `configuration/dot-claude_snapshot/macos_20251112-0912est/settings-claude-long.json`
 - `configuration/dot-claude_snapshot/macos_20251112-0912est/settings.anthropic.json`
 - `configuration/dot-claude_snapshot/macos_20251112-0912est/settings.json`
- Stage and Amend:** Overwrite the current commit with the now-clean file contents.

```
Bash
git add .
git commit --amend --no-edit
```

Step 4: Continue and Finish Rebase 💪

Tell Git to finish applying the remaining clean commits.

- Continue Rebase:**

```
Bash
git rebase --continue
```

Step 5: Final Force Push 💥

The history is now clean. This push must succeed.

```
Bash
git push --force
```

```
git push --force-with-lease
```

```
###TERMINAL:  
› git log --oneline  
e6b58a1962c2265656f92276b8dbf9f450fcf91^ -1...
```

Comprehensive Analysis and Strategy for GitHub Push Protection Failure



This document compiles the history, analyzes the persistent error, and proposes ranked strategies for an experienced GitHub/Git expert to quickly resolve the push failure due to GitHub's Secret Scanning.

1. Fundamental Problem and Error Persistence

A. The Core Violation (The Ghost Secret)

The repository push is blocked by **GitHub Push Protection** because a specific **Anthropic API Key** was introduced into the repository's history and is detected in **five specific configuration files**.

- **Violating Commit Hash:** The error consistently names the original offending commit hash as `e6b58a1962c2265656f92276b8dbf9f450fcf91` (which is the current rewritten version of the original `f52aecd` commit).
- **Violating Files (All contain the secret on line 3, 4, or 10):**
 1. `configuration/dot-claude_snapshot/macos_20251112-0912est/settings-cc-proxy-info.json`
 2. `configuration/dot-claude_snapshot/macos_20251112-0912est/settings-cc-proxy.json`
 3. `configuration/dot-claude_snapshot/macos_20251112-0912est/settings-claude-long.json`
 4. `configuration/dot-claude_snapshot/macos_20251112-0912est/settings.anthropic.json`
 5. `configuration/dot-claude_snapshot/macos_20251112-0912est/settings.json`

B. The Persistence Challenge

The error persists because the core cleanup step—**manually replacing the token with a placeholder inside the files at the exact moment of the first `edit` stop**—has failed or been undone at every rebase attempt. The push failure confirms that **the actual secret token (e.g., `sk-ant-api-01...`) remains on the five specific lines of commit `e6b58a19...`**.

2. History of Fix Attempts and Key Learnings

Attempt Description	Status/Error	Key Learning
Initial Attempts (5-15 pushes)	Remote Rejected	Simply committing a new file state does not rewrite history.
Nested Git Issue	<code>git rm --cached</code> failed, directory conflict ensued.	Directory structural conflicts must be resolved by deleting the internal <code>.git</code> folder and force-deleting Git's temporary conflict directories (<code>rm -rf</code>).
Interactive Rebase #1	Rebase completed without stopping (<code>pick</code> not changed to <code>edit</code>).	Crucial: The <code>edit</code> command in the rebase script must be explicitly set to pause for manual file amendment.
Interactive Rebase #2 & #3	Successful rebase continuation, but final push failed.	Core Error: Although the rebase mechanism works now, the actual file content change (replacing the secret with a non-matching placeholder) was missed or reverted in the initial <code>git commit --amend</code> stop.
Final State (Current)	Successful rebase completion, but push blocked again on the same hash and same files.	The history is now linear and clean of structural conflicts, but the content of the first amended commit (<code>e6b58a19...</code>) is still dirty.

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3. Current Repository State and Problem Status

- **Current Branch:** `main` (ahead of `origin/main`).
- **History State:** The local history has been fully rebased and cleaned of structural issues, moving all commits onto `f0ab488`.
- **Problem Status:** The issue is a **pure content-level secret leak**. The history rewrite procedure is correct, but the manual intervention step (editing the file contents) needs to be performed with certainty.

4. Ranked Strategies for Expert Fix (Recommended Path)

💡 Strategy 1: Targeted Interactive Rebase (Most Surgical)

This confirms the local history is correct and forces the expert to execute the one missing step: file content amendment.

1. **Start Rebase:** Rebase again, targeting the parent of the currently failing commit.

```
Bash
git rebase -i f0ab488
```

2. **Edit Script:** In the editor, explicitly change `pick` to `edit` for the **first commit** (`e6b58a19...` or its current hash).
3. **Clean Files (The CRITICAL step) 🚨:** At the edit stop, the expert **MUST** manually open the five files listed in the GitHub error and replace the actual Anthropic API Key (which is present) with a safe, non-matching placeholder string like `"YOUR_ANTHROPIC_TOKEN_PLACEHOLDER"`.
4. **Amend and Continue:**

```
Bash
git add .
git commit --amend --no-edit
git rebase --continue
```

5. **Force Push:**

```
Bash
git push --force-with-lease
```

💡 Strategy 2: BFG Repo-Cleaner (Automated Global Cleanup)

If Strategy 1 fails or if the secret is suspected to be in other commits/files, the BFG Repo-Cleaner is the standard tool for deleting secrets from Git history efficiently.

1. **Download BFG** (or use the packaged JAR file).
2. **Clone Mirror:** Clone a mirror of the repository.

```
Bash
git clone --mirror <repo_url>
```

3. **Run BFG Command:** Use BFG to replace the exact secret string with a placeholder across all branches.

```
Bash
java -jar bfg.jar --replace-text <fileContainingSecretString> --all
```

4. **Cleanup & Force Push:**

```
Bash
cd <repo_name>.git
git reflog expire --expire=now --all && git gc --prune=now --aggressive
git push
```

💡 Strategy 3: GitHub Bypass (Last Resort/Quick Fix)

The least clean solution, but the fastest, is to use the URL provided by GitHub to unblock the push for this specific secret.

1. **Navigate:** Go to the URL provided in the terminal output: <https://github.com/jon-chun/claudie-code-configs/security/secret-scanning/unblock-secret/35PVnYwS8h7MU9RZJ4sVhXE69ie>
2. **Bypass:** Choose the option to "Bypass protection" (e.g. "This secret is used for testing").
3. **Push:** Rerun the `git push --force-with-lease` command.

This is not a true fix, as the secret remains in the history, but it allows the push to succeed immediately.

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