

## Resolving Git Authentication Issues in Visual Studio

The error message 'fatal: Authentication failed for 'https://github.com/SagarAdkhale/shorebird-flutter.git/' in

### 1. Check Credentials:

- Ensure that your GitHub username and password (or personal access token) are correct.
- If you're using a personal access token, make sure it has the required permissions for the repository.

### 2. Update Credentials:

- In Visual Studio, navigate to Team Explorer > Settings > Repository Settings > Remotes, and ensure the correct repository is selected.
- If using Windows, you might need to update the stored credentials:
  1. Go to Control Panel > User Accounts > Credential Manager.
  2. Find the entry for GitHub (under Windows Credentials or Generic Credentials).
  3. Edit or remove the credentials, and re-enter them when prompted by Git.

### 3. Use Personal Access Token (PAT):

- GitHub has deprecated password authentication for Git operations. You need to use a personal access token.
- Generate a personal access token from your GitHub account settings:
  1. Go to GitHub > Settings > Developer settings > Personal access tokens.
  2. Click Generate new token, select the required scopes, and copy the token.
- Replace the password with the token in your Git credentials.

### 4. Use SSH instead of HTTPS:

- Set up SSH keys for your GitHub account:
  1. Generate an SSH key if you don't have one: `ssh-keygen -t rsa -b 4096 -C 'your_email@example.com'`
  2. Add the SSH key to your GitHub account: GitHub > Settings > SSH and GPG keys > New SSH key.
- Update the repository URL in Visual Studio:

1. Go to Team Explorer > Settings > Repository Settings > Remotes.
2. Change the URL to the SSH format: `git@github.com:SagarAdkhale/shorebird-flutter.git`.

5. Clear Git Credentials Cache:

- Run the following command in your Git Bash or command prompt to clear cached credentials: `git credential`

6. Re-clone the Repository:

- If the above steps don't work, you might need to re-clone the repository using the correct credentials or

If you're still experiencing issues, please provide more details about your setup or any specific steps you've

Replacing Password with Personal Access Token (PAT) in Git Credentials:

Generating a Personal Access Token (PAT):

1. Go to your GitHub account and navigate to Settings.
2. Select Developer settings.
3. Select Personal access tokens.
4. Click on Generate new token.
5. Provide a note to identify the token and select the required scopes (e.g., repo for full control of private re
6. Click Generate token.
7. Copy the generated token and store it securely. You won't be able to see it again.

Replacing Password with the Token in Git Credentials:

Windows Credential Manager:

1. Open Control Panel and go to User Accounts > Credential Manager.

2. Click on Windows Credentials or Generic Credentials.
3. Find the entry related to github.com.
4. Edit the entry:
  - Change the password to your personal access token.
  - Save the changes.

Using Git Bash or Command Prompt:

1. Open Git Bash or Command Prompt.
2. Update your remote URL to include the token:

```
git remote set-url origin https://<your_token>@github.com/username/repository.git
```

Replace <your\_token> with the PAT you generated, username with your GitHub username, and repository with your repository name.

Directly in Visual Studio:

1. Open Visual Studio and go to Team Explorer.
2. Navigate to Settings > Repository Settings > Remotes.
3. Update the repository URL to:

```
https://<your_token>@github.com/username/repository.git
```

Replace <your\_token> with the PAT, username with your GitHub username, and repository with your repository name.

Using .gitconfig File:

1. Open the .gitconfig file in your home directory.
2. Add or update the following lines:

```
[credential]
```

```
helper = store
```

3. Run the following command to set the credentials:

```
git credential approve
```

4. When prompted, enter:

`url=https://github.com`

`username=your_username`

`password=your_token`

Press Enter after each line.

Testing the New Setup:

1. Run a Git command that requires authentication, such as:

`git pull`

2. Verify that the authentication works correctly with the new token.