

## Documentation: Sync Bitbucket Repository with GitHub Repository

This CI/CD pipeline automatically syncs code changes from Bitbucket's `dev` branch to GitHub's `dev` branch. It uses Bitbucket Pipelines to trigger the process, runs on Ubuntu, and employs steps to check out code, set up Node.js, configure AWS credentials, install dependencies, and deploy using Serverless Framework. This ensures GitHub stays updated with the latest code from Bitbucket, facilitating seamless integration and deployment.

### Configuration steps

1. GitHub, create a new repository (import or from scratch).
2. Bitbucket, Enable Pipelines under Repository settings > Pipelines > Settings and enable Pipelines.
3. Bitbucket, Generate keys under Repository settings > Pipelines > SSH keys. Copy the public key to clipboard.
4. the same page, under Known hosts enter github.com as the Host address and then click Fetch followed by Add host.
5. GitHub, add the public key under Settings > Security > Deploy keys > Add deploy key. Tick the checkbox to Allow write access.
6. Bitbucket, add the public key under Repository settings > Security > Access keys > Add key.

### Bitbucket Pipeline

```
1. pipelines:
2.   branches:
3.     dev:
4.       - step:
5.         name: Sync Dev Branch to GitHub
6.         image: alpine/git:latest
7.         clone:
8.           enabled: false
9.         script:
10.          - git init
11.          - git remote add origin git@bitbucket.org:yourbitbucketusername/your-bitbucket-repo.git
12.          - git fetch origin dev
13.          - git checkout -b dev origin/dev
14.          - git push git@github.com:yourgithubusername/your-github-repo.git dev
```

Replace yourbitbucketusername, your-bitbucket-repo, yourgithubusername, and your-github-repo with your actual Bitbucket and GitHub usernames and repository names. This script synchronizes the dev branch from Bitbucket to GitHub when triggered by changes in the dev branch on Bitbucket.