



Deploy with pull requests

You can deploy using pull requests in two main ways:

- 1. Defining pipelines that only run on pull requests
- 2. Using a specific structure for your repository

Define a pull request pipeline

For pull requests within your repository, you can define a special pipeline which only runs on pull requests. This pipeline can be [configured to deploy](#) in the same way as a regular pipeline. We recommend only using this to deploy to test environments, as you've not fully merged yet!

Restrict pull requests to certain branches

Step 1: Define the repository structure

Repository branches:

- **main:** Your integration branch
- **staging:** Use this branch to trigger deployments to staging
- **production:** Use this branch to trigger deployments to production
- **feature/xxx:** All feature branches

With the branch structure above, you can define a .YML file that has different flows for different branches:

bitbucket-pipelines.yml

```
1 # This is a sample build configuration for Javascript.
2 # Only use spaces to indent your .yaml configuration.
3 # -----
4 # You can specify a custom docker image from Docker Hub as your build environment.
5 image: node:10.15.0
6
7 pipelines:
8   default:
9     - step:
10       script:
11         - npm install
12         - npm test
13   branches:
14     staging:
15       - step:
16         script:
17           - npm install
18           - npm test
19           - export HEROKU_APP_NAME=$STAGING_APP
20           - ./heroku_deploy.sh # Check https://bitbucket.org/rjst/heroku-deploy to
21     production:
22       - step:
23         script:
24           - npm install
25           - npm test
26           - export HEROKU_APP_NAME=$PROD_APP
27           - ./heroku_deploy.sh # Check https://bitbucket.org/rjst/heroku-deploy to
```

- You can check your bitbucket-pipelines.yml file with our [online validator](#).
- All branches except staging and production use the **default** pipeline that simply runs the tests.
- The **staging** and **deployment** branches have a different configuration and are set up to deploy to their respective staging and production environments.

Step 2: Set branch permissions

In order to protect the staging and production branches from being pushed directly, you can use branch permissions to only allow merges via pull requests.

Step 3: Start deploying with pull requests

You can now simply develop a new feature or improvements on the feature branches and integrate them into your main branch.

Creating a pull request allows you to review the changes before you deploy them to the staging environment. Repeat the process to deploy to production: create a pull request going from the staging branch to the production branch.

Was this helpful?

☐ Yes ☐ No

[Provide feedback about this article](#)

Still need help?

The Atlassian Community is here for you.

[Ask the Community](#)

Access Pipelines deployment guides

Show more

[Deploy to Microsoft Azure](#)

[Deploy to npm](#)

- [Deploy with pull requests](#)

[Deploy using SCP](#)

[Deploy build artifacts to Bitbucket Downloads](#)

Show more

On this page

[Define a pull request pipeline](#)

[Restrict pull requests to certain branches](#)

[Step 1: Define the repository structure](#)

[Step 2: Set branch permissions](#)

[Step 3: Start deploying with pull requests](#)

Community

[Questions, discussions, and articles](#)