

# Bitbucket Pipelines Configuration Guide

Bitbucket Pipelines automates code builds, tests, and deployments. Configuration is done in a `bitbucket-pipelines.yml` file placed at the root of your repository.

## Quick Start

Here is a minimal `bitbucket-pipelines.yml` example that runs `echo "Hello world"` on every push:

```
image: atlassian/default-image:3
pipelines:
  default:
    - step:
        script:
          - echo "Hello world"
```

## Configuration Structure

- **image:** Docker image used for your build environment.
- **pipelines:** Main section defining your build and deployment steps.
- **default:** Steps run on every push/commit.
- **branches:** Run steps for specific branches.
- **pull-requests:** Steps for pull request builds.

## Branch Specific Pipelines

```
pipelines:
  branches:
    master:
      - step:
          script:
            - echo "This runs only on master"
    develop:
      - step:
          script:
            - echo "This runs only on develop"
```

## Common Options

| Option    | Description   |
|-----------|---|
| image     | Choose the Docker image for your environment.       |
| caches    | Cache specific directories between builds.          |
| services  | Run additional Docker containers (e.g., databases). |
| artifacts | Persist files between steps.                        |

## Example With Caches and Services

```
image: node:18
pipelines:
  default:
    - step:
        caches:
          - node
        services:
          - docker
        script:
          - npm install
          - npm test
```

## References

- [Bitbucket Pipelines Overview](#)