

# 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
<code>image</code>	Choose the Docker image for your environment.
<code>caches</code>	Cache specific directories between builds.
<code>services</code>	Run additional Docker containers (e.g., databases).
<code>artifacts</code>	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