Atlassian Support / Bitbucket / Resources / Build, test, and deplo... / Access Pipelines depl...   Cloud   Data Center ▾

Build and push a Docker image to a container registry

For many CI and CD workflows, you might want to package and deploy your application as a Docker image after it passes automated tests.

Build a Docker image

Before you can build a Docker image, you need to enable access to the Docker daemon by simply adding the `docker: true` option to your bitbucket-pipelines.yml file.

Here is an example of how to build a Node.js application as a Docker file. You will need to replace the following placeholders with your own details:

- `<my.container.registry.io>`
- `<my_app>`
- `<my_tag>`

bitbucket-pipelines.yml

```
 1   image: node:10.15.0
 2   pipelines:
 3     default:
 4       - step:
 5           script:
 6             - npm install
 7             - npm test
 8             - docker build -t <my.container.registry.io>/<my_app>:<my_tag> .
 9           services:
10             - docker
```

Push to a container registry

Once your application has been built into a Docker image, you'll want to push it to a container registry for safe-keeping, ready for deployment.

You'll need to log into your container registry before pushing. Here's an example that builds and pushes a Docker image to a container registry.

First make sure you've set up the variables `DOCKER_HUB_USER` and `DOCKER_HUB_PASSWORD.`

Then you will need to replace the following placeholders with your own details:

- `<my.container.registry.io>`
- `<my_app>`
- `<my_tag>`

bitbucket-pipelines.yml

```
 1   image: node:10.15.0
 2   pipelines:
 3     default:
 4       - step:
 5           script:
 6             - npm install
 7             - npm test
 8             - docker login -u $DOCKER_HUB_USER -p $DOCKER_HUB_PASSWORD
 9             - docker build -t <my.container.registry.io>/<my_app>:<my_tag> .
10             - docker push <my.container.registry.io>/<my_app>:<my_tag>
11           services:
12             - docker
```

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• **Build and push a Docker image to a container registry**

On this page

Build a Docker image

Push to a container registry

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