

## ***Automated Node.js Application Deployment***

### ***Summary:***

Implemented a robust CI/CD pipeline to manage the deployment of a Node.js application.  
Continuous Integration (CI):

Utilized Jenkins to automate the build and test phases, ensuring high code quality and integration with Docker Hub for seamless image management. Jenkins fetched the latest code from GitHub, installed dependencies, ran unit tests, and created Docker images.

Continuous Delivery (CD):

Leveraged ArgoCD to automate the deployment process. ArgoCD monitored changes in the GitHub repository and synchronized them with the Kubernetes cluster, ensuring rapid and reliable delivery of new features.

Project:

Add description

All +

S	W	Name ↓	Last Success	Last Failure	Last Duration		F
✓	☁	project	28 min #8	39 min #7	27 min	▶	★

Icon: S M L

id pipeline

#8

Start Clone Repository Build Application Build Docker I... Push Docker im... End

Start Clone Repository Build Application Build Docker Image Push Docker image End

✓ project < 8

Pipeline Changes Tests Artifacts ↺ ⚙️ 📄 Logout ×

Branch: — 27m 49s No changes

Commit: — a minute ago Started by user admin

Start Clone Repository Build Application Build Docker Image Push Docker image End

Push Docker image - 21m 44s [Restart Push Docker image](#) 📄 ⬇️

✓ > echo "\$DOCKER\_PASSWORD" | docker login -u "\$DOCKER\_USERNAME" --password-stdin — Shell Script 2s

✓ > docker push mkcfd/nodejs\_app:latest — Shell Script 21m 41s

## mkcfd/nodejs\_app

Last pushed 4 minutes ago

This repository does not have a description [INCOMPLETE](#)

This repository does not have a category [INCOMPLETE](#)

### Docker commands

To push a new tag to this repository:

```
docker push mkcfd/nodejs_app:tagname
```

[Public View](#)

### Tags


This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	4 minutes ago	4 minutes ago

### Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more](#)

argo  
v2.12.6+4dab5bd

Applications

Settings

User Info

Documentation

CLEAR ALL

NAME

NAME

KINDS

KINDS

SYNC STATUS

CLEAR

Synced

0

OutOfSync

0

Applications / nodejs-app

APPLICATION DETAILS TREE

DETAILS

DIFF

SYNC

SYNC STATUS

HISTORY AND ROLLBACK

DELETE

REFRESH

Log out

APP HEALTH

Healthy

SYNC STATUS

Synced to HEAD (2500a33)

Auto sync is enabled.  
Author: Mohamed Khaled <mohamedkhaledworkma...>  
Comment: Update argocd.yaml

nodejs-app

14 minutes