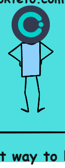
Improve Your Developer Productivity
Focus on Code not infrastructure

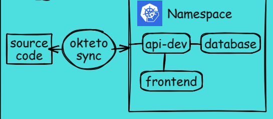
Okteto - Make Development faster

okteto.com



How Okteto Works ?

okteto use concept of syncthing . its continuous file synchronization program . which workes in real time to synchronizes file between two or more computers .



Namespace as Service

Connect your Local Environment to Namespace

Development | Testing | Production

Share your namespace your team
Increase Developer Productivity

Install the Okteto CLI following these steps:

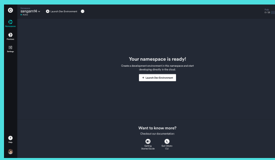
```
$ curl https://get.okteto.com -sSfL | sh
```

Install Specific Version

```
$ curl https://get.okteto.com -sSfL | OKTETO_VERSION=2.3.3 sh
```

Install Via brew : `$ brew install okteto`

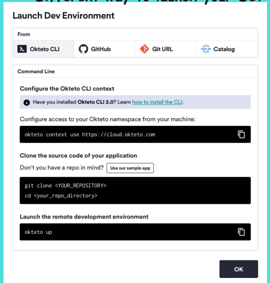
connect your local Dev Environments To Okteto
https://cloud.okteto.com/
create your free okteto account



sangam14
Launch Dev Environment
Your namespace is ready!
Create a development environment in this namespace and start developing directly in the cloud.
+ Launch Dev Environment
Want to know more?
Checkout our documentation:
Getting Started Guide
Get Okteto CLI

@BiradarSangam

Different way to launch your Dev Enviroment



Launch Dev Environment

From: Okteto CLI | GitHub | Git URL | Catalog

Command Line

Configure the Okteto CLI context

Have you installed Okteto CLI 2.0? Learn how to install the CLI.

Configure access to your Okteto namespace from your machine:

```
okteto context use https://cloud.okteto.com
```

Clone the source code of your application

Don't you have a repo in mind? Use our sample app

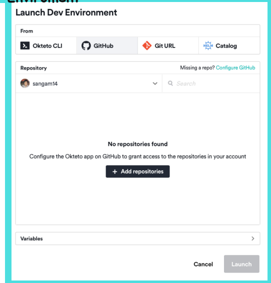
```
git clone <YOUR_REPOSITORY>
cd <your_repo_directory>
```

Launch the remote development environment

```
okteto up
```

OK

Manage Everything via Okteto CLI



Launch Dev Environment

From: Okteto CLI | GitHub | Git URL | Catalog

Repository — Missing a repo? Configure GitHub

sangam14 — Search

No repositories found

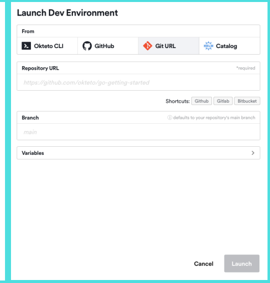
Configure the Okteto app on GitHub to grant access to the repositories in your account

+ Add repositories

Variables

Cancel | Launch

Add Your Repo as Dev Environment



Launch Dev Environment

From: Okteto CLI | GitHub | Git URL | Catalog

Repository URL *required

https://github.com/okteto/go-getting-started

Shortcuts: Github | Gitlab | Bitbucket

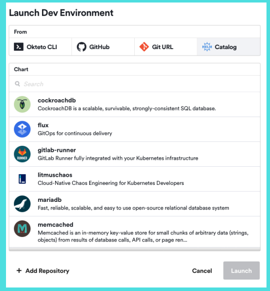
Branch — defaults to your repository's main branch

main

Variables

Cancel | Launch

Deploy app with github url



Launch Dev Environment

From: Okteto CLI | GitHub | Git URL | Catalog

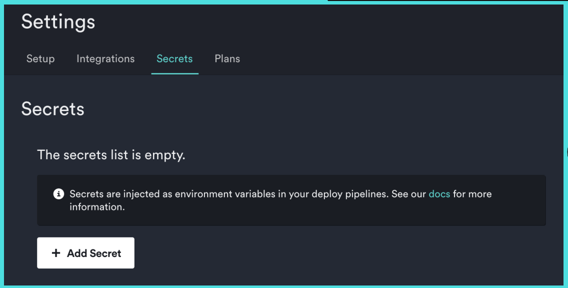
Chart

Search

- cockroachdb — CockroachDB is a scalable, survivable, strongly-consistent SQL database.
- flux — GitOps for continuous delivery
- gitlab-runner — GitLab Runner fully integrated with your Kubernetes infrastructure
- litmuschaos — Cloud-Native Chaos Engineering for Kubernetes Developers
- mariadb — Fast, reliable, scalable, and easy to use open-source relational database system
- memcached — Memcached is an in-memory key-value store for small chunks of arbitrary data (strings, objects) from results of database calls, API calls, or page ren...

+ Add Repository | Cancel | Launch

connect your helm charts to okteto cloud



Settings

Setup | Integrations | Secrets | Plans

Secrets

The secrets list is empty.

Secrets are injected as environment variables in your deploy pipelines. See our docs for more information.

+ Add Secret

manage your secret via okteto cloud dashboard

https://github.com/okteto/okteto

No matter your using Helm Charts , any Kubernetes Distros and Docker Compose Okteto Support ALL also okteto provide preview environment using github Action,Gitlab turn your PR into live output

Automate SSL

`dev.okteto.com/auto-ingress: "true"`

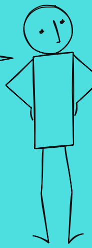
Adding this annotation will tell Okteto to automatically create an https ingress rule for you that redirects to the first http port of your service. NodePort or LoadBalancer services are managed as if they had this annotation too.

`dev.okteto.com/auto-ingress: "private"`

Using this annotation will tell Okteto to create a private http ingress rule for your application.

`dev.okteto.com/generate-host: "domain"`

if you create own ingress change value of annotation in your ingress to the world "domain"



deploy simple go app

hope you have installed Okteto CLI locally

```
$ git clone https://github.com/okteto/go-getting-started
$ cd go-getting-started
```

okteto.yaml

```
build:
hello-world:
  image: okteto.dev/go-hello-world:1.0.0
  context: .

deploy:
  - kubectl apply -f k8s.yml
```

```
$ okteto deploy --build
```

login to okteto cloid and access app with on click

Well we don't use Kubernetes we love Docker Compose
Run Docker Compose On Kubernetes with Okteto
Wow .... super cool !

```
$ git clone https://github.com/okteto/compose-getting-started
$ cd compose-getting-started
```

```
okteto deploy --wait
okteto up vote // hot-reload
```

Convert Docker Compose to Kubernetes

docker-compose.yml

```
services:
 vote:
   build: vote
   scale: 2
   environment:
     - FLASK_ENV=development
   command: python app.py
   ports:
     - 8080:8080
   volumes:
     - ./vote:/src

 redis:
   image: redis
   ports:
     - 6379
   volumes:
     - redis:/data

volumes:
 redis:
```

Automate your development workflows using Github Actions and Okteto Cloud

login

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:

    - uses: okteto/login@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - uses: okteto/namespace@latest
      with:
        name: sangam14
```

Active Namespace

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:

    - name: checkout
      uses: actions/checkout@master

    - uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Create devlopment environments namespace"
      uses: okteto/namespace@latest
      with:
        namespace: devenvs-cindylopez
```

Create Namespace

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:

    - uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Create devlopment environments namespace"
      uses: okteto/create-namespace@latest
      with:
        namespace: devenvs-sangam14
        members: rberrelleza,sangam14
```

Delete Namespace

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:

    - uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Delete the previews namespace"
      uses: okteto/delete-namespace@latest
      with:
        name: dev-previews-sangam14
```

Apply

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:
    - name: checkout
      uses: actions/checkout@master

    - uses: okteto/login@master
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Activate personal namespace"
      uses: okteto/namespace@master
      with:
        name: sangam14

    - name: "Create deployment"
      uses: okteto/apply@master
      with:
        manifest: deployment.yaml
```

Deploy Pipeline

```
# File: .github/workflows/workflow.yml
on:
  pull_request:
    branches:
      - master

name: example

jobs:
  devflow:
    runs-on: ubuntu-latest
    steps:
    - name: checkout
      uses: actions/checkout@master

    - name: context
      uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Activate Namespace"
      uses: okteto/namespace@latest
      with:
        name:sangam14

    - name: "Trigger the pipeline"
      uses: okteto/pipeline@latest
      with:
        name: pr-${{ github.event.number }}
        timeout: 8m
        skipIfExists: true
        variables: "DB_HOST=mysql,CONFIG_PATH=/tmp/config.yaml"
```

Build

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:

    - uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Build"
      uses: okteto/build@latest
```

Deploy Stack

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:

    - uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - uses: okteto/namespace@latest

    - name: "Create stack"
      uses: okteto/deploy-stack@latest
      with:
        build: "true"
```

Destroy Stack

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:

    - uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - uses: okteto/namespace@latest

    - name: "Create stack"
      uses: okteto/deploy-stack@latest
      with:
        build: "true"
```

Push Stack

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:

    - uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Activate Namespace"
      uses: okteto/namespace@latest
      with:
        name: sangam14

    - name: "Deploy application"
      uses: okteto/apply@latest
      with:
        namespace: cindylopez
        manifest: k8s.yaml

    - name: "Push changes"
      uses: okteto/push@latest
      with:
        namespace: sangam14
        name: hello-world
```

Destroy Pipeline

```
# File: .github/workflows/workflow.yml
on:
  pull_request:
    types:
      - closed

name: example

jobs:
  devflow:
    runs-on: ubuntu-latest
    steps:
    - name: checkout
      uses: actions/checkout@master

    - name: Login
      uses: okteto/login@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Activate Namespace"
      uses: okteto/namespace@latest
      with:
        name: sangam14

    - name: "Trigger the pipeline"
      uses: okteto/pipeline@latest
      with:
        name: pr-${{ github.event.number }}

    - name: "Destroy the pipeline"
      uses: okteto/destroy-pipeline@latest
      with:
        name: pr-${{ github.event.number }}
```

Preview Environment

```
# File: .github/workflows/workflow.yml
on: [push]

name: example

jobs:

  devflow:
    runs-on: ubuntu-latest
    steps:
    - uses: okteto/context@latest
      with:
        token: ${{ secrets.OKTETO_TOKEN }}

    - name: "Deploy the preview environment"
      uses: okteto/deploy-preview@latest
      env:
        GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
      with:
        name: dev-previews-sangam14
```

CloudNativeFolks Community