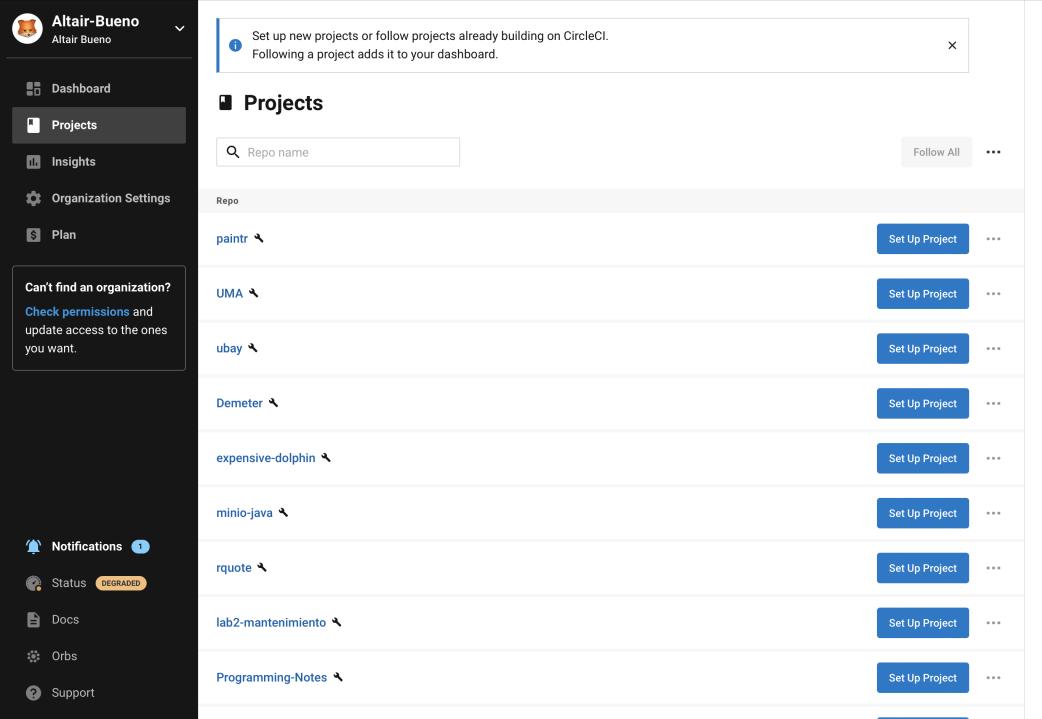
# Servicios de CI/CD

# Circle CI







|

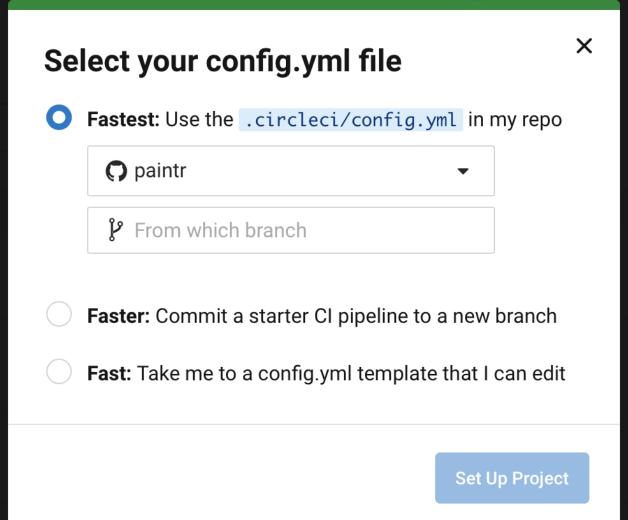
#### Popular docs

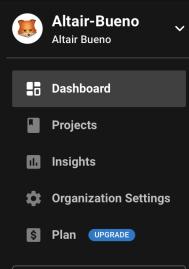
Setting up new projects
Following projects

Configuration reference

Using the CircleCI CLI

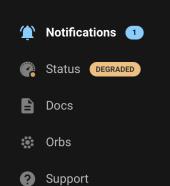
- Fastest: Utiliza un fichero ya existente en el repo
- Faster: Crea una rama
   circleci-project-setup con
   un fichero
   circleci/config.yml
- Fast: Te permite configurar el fichero .circleci/config.yml de forma similar a GitHub Actions

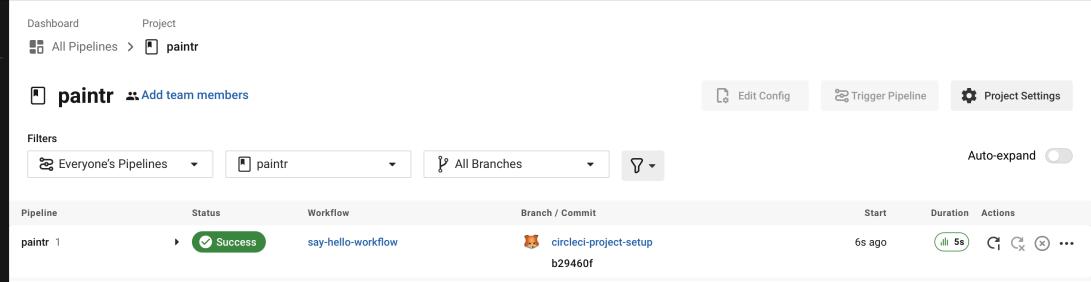


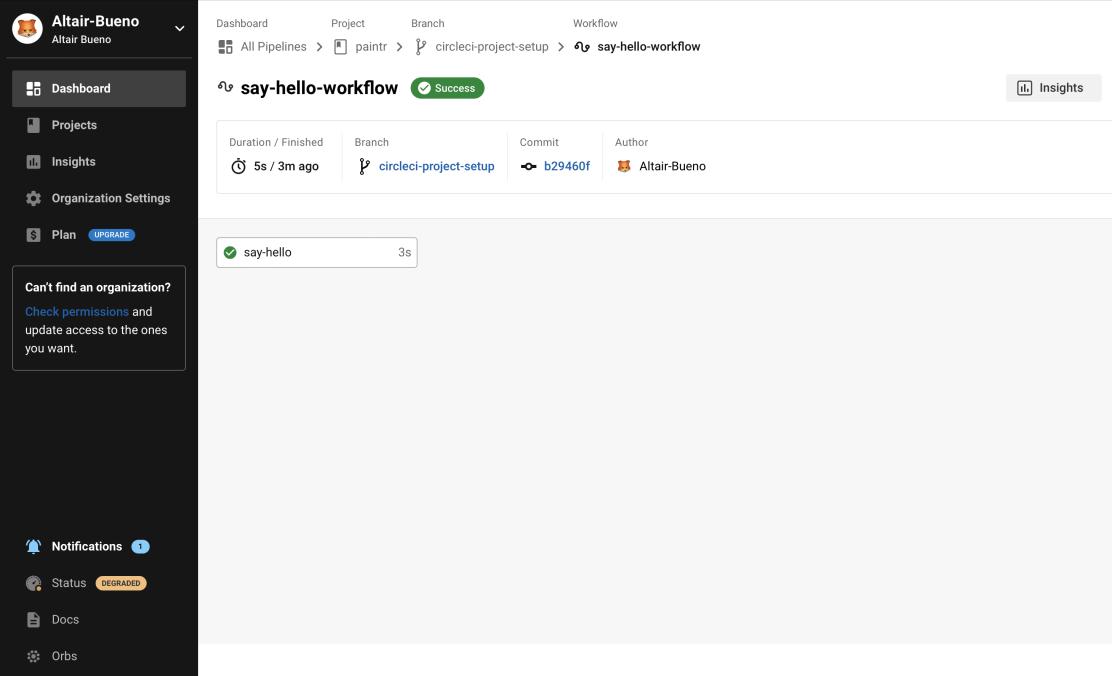


#### Can't find an organization?

Check permissions and update access to the ones you want.

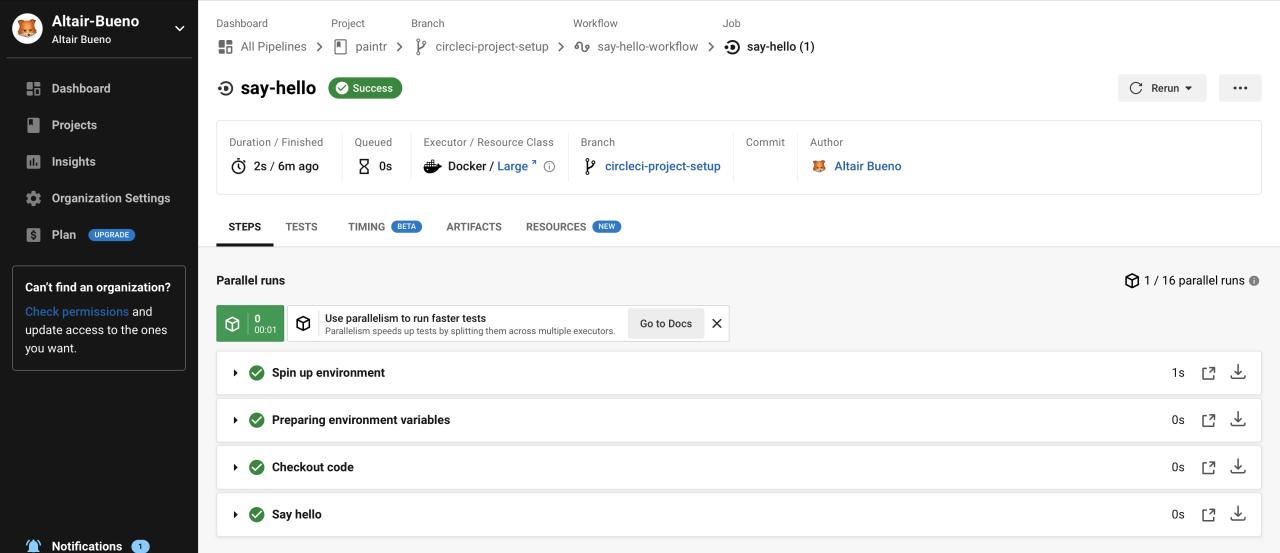






C Rerun ▼

Support



Docs

Status DEGRADED

## config.yml

Fichero YAML ubicado en la carpeta .circleci en cualquier rama del repositorio. Podemos editarlo manualmente desde nuestro editor de código favorito o desde la web

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- Projects
- Insights
- **Organization Settings**
- S Plan

Can't find an organization?

**Check permissions and** update access to the ones you want.

- Notifications
- Status DEGRADED

✓ say-hello <sup>¬</sup>

- Docs
- Orbs
- Support

```
version: 2.1
# See: https://circleci.com/docs/2.0/configuration-reference/#jobs
jobs:
  say-hello:
   # Specify the execution environment. You can specify an image from Dockerhub or
   # See: https://circleci.com/docs/2.0/configuration-reference/#docker-machine-m
    docker:
     - image: cimg/base:stable
    # See: https://circleci.com/docs/2.0/configuration-reference/#steps
    steps:
     checkout
     - run:
         name: "Say hello"
         command: "echo Hello, World!"
# Invoke jobs via workflows
# See: https://circleci.com/docs/2.0/configuration-reference/#workflows
workflows:
  say-hello-workflow:
    jobs:
     say-hello
              SAY-HELLO-WORKFLOW
```

paintr > ½ circleci-project-setup > 📮 config.yml

### Add code to your config.yml Select one of the below shortcuts to writing your CircleCI config.yml. When your code is complete, click Save and Run. Automate common tasks with Orbs • Create a Job from scratch View all **Popular Slack** aws AWS CLI CodeCov Docker

### Estructura

```
version: 2.1
# Orbs requeridos
orbs:
  node: circleci/node@4.7.0
jobs:
  build:
    # Entorno de ejecución (`docker`, `machine`, `macos` or `executor`)
    executor:
      name: node/default
      tag: "10.4"
    # Etapas que componen el trabajo
    steps:
      checkout
      - node/with-cache:
          steps:
            - run: npm install
      - run: npm run test
```

## Orbs

- Utilidades por la comunidad o por Circle Cl
- Funcionan como módulos
- Se importan y se exportan
- Simplifican enormemente el desarrollo de workflows multiplataforma

```
version: "2.1"
orbs:
  # Orb de Rust (aka. `from circleci import rust@x.y.z as rust `)
  rust: circleci/rust@x.y.z
workflows:
  # Definimos los distintos workflows disponibles (aka. `production.py`)
  production:
    jobs:
      # Ejecutamos la función `build` dentro del orb definido
      # anteriormente (aka. `rust.build(release=True)`)
      - rust/build:
          release: true
```

## Jobs

- Funciones a llamar para ser ejecutadas
- Cada job puede ser en un entorno distinto
- Pueden definirse globalmente para todos los workflows o para un workflow concreto

```
version: 2
jobs: # we now have TWO jobs, so that a workflow can coordinate them!
  # aka. `def hello-world():`
  hello-world: # This is our first job.
    docker: # it uses the docker executor
      - image: cimg/ruby:2.6.8 # specifically, a docker image with ruby 2.6.8
        auth:
          username: mydockerhub-user
          password: $DOCKERHUB_PASSWORD # context / project UI env-var reference
    # Steps are a list of commands to run inside the docker container above.
    steps:
      - checkout # this pulls code down from GitHub
      # aka. `hello-world()`
      - run: echo "A first hello" # This prints "A first hello" to stdout.
workflows:
  version: 2
  one and two: # this is the name of our workflow
    jobs: # and here we list the jobs we are going to run.
      hello-world
```

## Demo

Link: Altair-Bueno/paintr

```
version: 2.1
executors:
  rust-executor:
    docker:
      - image: cimg/rust:1.60.0
jobs:
  test-kahlo:
    executor: rust-executor
    steps:
      checkout
      - restore cache:
          key: kahlo-rust-cache-{{ checksum "kahlo/Cargo.lock" }}
      - run: |
          cd /kahlo
          cargo test
      - save cache:
          key: kahlo-rust-cache-{{ checksum "kahlo/Cargo.lock" }}
          paths:
            - "~/.cargo"
            - "./kahlo/target"
orbs:
  node: circleci/node@5.0.2
workflows:
  test:
    jobs:
      - test-kahlo
      - node/run:
          app-dir: "./dali"
          npm-run: "test"
```

# Planes y precios

Fuente: https://circleci.com/pricing/



Product

Pricing

Developers

Resources

Support

Company

#### START HERE

CLOUD

#### Free

Do more with your minutes. Give your team the best CI/CD.

#### **Start for Free**

- ✓ Up to 6,000 build minutes per month
- ✓ Largest selection: Build for Docker, Windows, Linux, Arm, and macOS or on your own compute with self-hosted runners
- ✓ Build better: Choose the right resource class size (S-L) to go fast and maximize your build minutes
- ✓ Fast: Run up to 30 jobs at a time and run your tests in parallel using test splitting

CLOUD

#### Performance

Pay for what you use. Build with the flexibility your business requires.

Starting at

**Get Started** 

- ✓ 6,000 bonus build minutes per month, pay as you go for more
- ✓ Teamwork: 5 user seats included, add more as you grow
- Power: All of the environments in Free, plus access to larger resource classes for better performance
- ✓ Speed: Run up to 80 jobs concurrently
- ✓ Expertise: Access to 8x5 support with add-on plan

CLOUD

#### Scale

Enterprise-level confidence and support for teams who deliver.

Starting at

\$2,000 per month

**Contact Us** 

- Customize your build minutes and seats to fit your team
- ✓ Power: Our largest resource classes for complex processes and speed
- ✓ Flexibility: All the environments in Performance, plus access to GPU resource classes
- **✓ Expertise:** A dedicated account team and access to 24/7 support
- ✓ Control: Customizable annual billing, audit logging, and bulk data export

SELF-HOSTED

#### Server

The power of CircleCI, on-prem or in your private cloud.

### Custom

**Contact Us** 

Learn more ▶

- ✓ Control: CircleCl behind your firewall or on your own hardware
- ✓ Scale: Unlimited build minutes, 30 user seats included, add more as you grow
- Flexibility: Build on Linux, Windows, Arm, and Android
- ✓ Expertise: A dedicated account team and access to 24/7 support, including migration assistance



	Hardware*	Creditos	Usuarios	Precio	Público objetivo
Free **	VMs	30.000	1	Gratis	Desarrolladores
Performance	VMs + macOS	55.000	5 gratuitos	Desde \$15	Pequeñas empresas
Scale	Todo	Custom	Custom	\$2.000	Pequeñas/medianas empresas
Server	Todo	Custom	Custom	Custom	Grandes empresas

<sup>\*</sup> Docker, VMs (linux, windows, macOS, ARM linux), baremetal macOS, NVIDIA GPU cluster (versiones linux y windows)

<sup>\*\*</sup> Proyectos OSS tienen más créditos

## Créditos

Moneda digital de Circle CI utilizado para pagar, en tiempo real, por los servicios utilizados

## Servicios que consumen creditos

- Cada runner tiene un precio de **créditos/minuto** (warm-up time no cuenta)
- Número de usuarios activos/mes
- **Red y almacenamiento**: Direcciones IP, paquetes de red y almacenamiento que excedan la cuota
- Miscelanea: Las funciones extra también se pagan mediante créditos

## Importante!!

- Los créditos que pertenecen a tu plan que no gastes desaparecerán al mes siguiente
- Si tus créditos bajan del 2%, Circle Cl automáticamente renovará un 25% de ellos
- Si cancelas tu cuenta, no recuperas el dinero. D:

## **Puntos fuertes**

- Permite configurar runners concurrentes de forma sencilla
- Amplio abanico de ofertas hardware. Especialmente interesante el soporte para gráficas NVIDIA tanto en windows como linux
- Soporte de primer grado para contenedores de Docker
- El plan gratuito no requiere tarjeta de crédito
- Acceso a los workflows mediante ssh tras su finalización
- Todos los jobs se ejecutan en paralelo
- Los jobs no se ejecutan si los ficheros no se han cambiado

## Conclusión

• Circle CI: Desarrollo multiplataforma, GPU computing o con alta dependencia en Dockers