# Contexts/Workspaces on CircleCi

How to use workspaces and contexts in CircleCI

# Agenda

1. CircleCi
2. Setting config.yml
3. Demo
4. QA

# CircleCi

Circle Ci is a continuos deployment tool that help to test, build and deploy applications easier and quicker on multiple platforms.

# config.yml

For setting up a project with CircleCi is neccesary to create a configuration file: `config.yml` in the `.circleci` folder.

# Setting config.yml

# Version

Circle Ci version

# Jobs

Independent environment that can execute steps or commands, like:

1. *Install*
2. *Execute*
3. *Build*
4. *Store cache*
5. *Restore cache*

# Docker image

Docker image used to create the container environment

# Working directory

Current directory where the steps will run

# Steps

Commands that will be executed

# Checkout

Checkout the code from current branch

# Run

Execute a bash command

# Save_cache

Store a dir or a file in the CircleCi storage

# Restore_cache

Restore cache with a cache key

# Workflows

Set the flow configuration to excecute the jobs, a job can be executed always or in a specific branch or tag, also can can be executed sequentially or in parallel

# Contexts

Are a mechanism for securing and sharing environment variables across projects

# Workspace

The workflow has an associated workspace which can be used to transfer files (*persist_to_workspace/attach_workspace*) between jobs