

A young child with brown hair and eyes is the central figure. They are wearing a bright yellow, chunky-knit beanie and a dark green jacket over a red and white patterned sweater. Their hands are raised to their eyes, with fingers spread, as if they are peeking or covering them. The background is a blurred blue structure, possibly a playground or outdoor setting.

# Software Cloud Computing

isobar

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# Index

Week #6 – Lesson #6

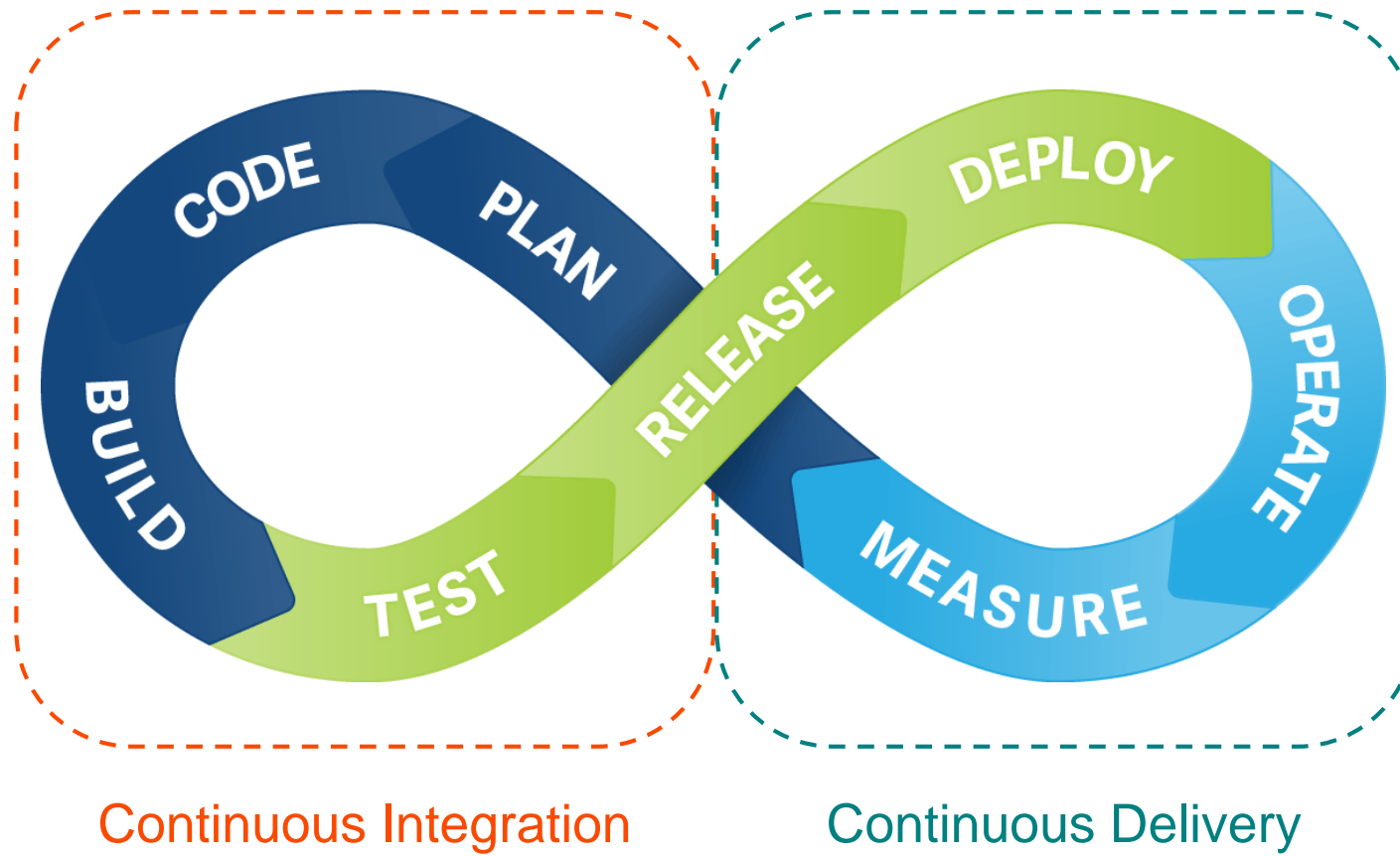
- CI / CD
- Final Project

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# CI / CD



# CI / CD



# Continuous Integration (CI)

- Build and Tests automation process;
- Occurs when a commit is made by a team member;
- It can be considered a development methodology, it is not just the use of a tool A, B or C;
- CI works so that updates to the project's features in an automated way;
- CI is directly related to cost reduction;
- CI help to solve bugs and code inconsistencies;



# **Continuous Integration (CI)**

- Control version system;
- Build automation;
- Self testing build;
- Daily integration;

# **Continuous Delivery (CD)**

- Is a strategy in which the development teams ensure the software is reliable to release at any time;
- The changes made in code are built, tested, and then pushed to a non-production environment;
- If it successfully passes the testing, it is then it is said to be ready for release into the production;

## CI/CD: Tools

- Jenkins;
- Travis CI (check *travis.yml*);
- Maven;
- GitLab CI;
- Hudson;
- CruiseControl;
- Bamboo;
- Buddy;
- Go



Jenkins



Travis CI

Maven™



cruisecontrol™



GitLab CI



Buddy



Bamboo

go



# References



Continuous Delivery  
<https://continuousdelivery.com/>



A Quick Guide to Continuous Integration and Continuous Delivery  
<https://www.xenonstack.com/blog/continuous-integration-and-continuous-delivery/>



Simplify Your Development Process with Continuous Integration  
<https://trailhead.salesforce.com/en/content/learn/trails/move-to-a-continuous-integration-development>



Continuous Integration Using Salesforce DX  
[https://trailhead.salesforce.com/en/content/learn/modules/sfdx\\_travis\\_ci](https://trailhead.salesforce.com/en/content/learn/modules/sfdx_travis_ci)

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# Final Project



# Final Project

- Transformar Resources e Supplies em "many-to-many";
- Alterar as triggers para trabalhar com a nova estrutura;
- Alterar a visualforce;
- Adicionar uma End Date e Milestones e ter lógica para alterar o Project Status de acordo com as falhas de milestones (2+ - Red / 1 - Yellow / Todos em dia - green);
- Adicionar os milestones na página de gestão de Supplies e Resource;
- Outros objetivos levantados a partir de brainstorming com os alunos

***Before Start:*** Is your Developer Org up and running?

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