

# **Invenio v3 Bootcamp**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Q&A (optional)

*Wednesday, 20 March 2019 16:55 (1h 5m)*

Contribution ID: 2

Type: **not specified**

## Q&A

*Tuesday, 19 March 2019 16:55 (1h 5m)*

Contribution ID: 3

Type: **not specified**

## Q&A

*Thursday, 21 March 2019 16:00 (1h 30m)*

Contribution ID: 4

Type: **not specified**

## Welcome

*Tuesday, 19 March 2019 09:00 (10 minutes)*

**Presenter:** GONZALEZ LOPEZ, Jose Benito (CERN)

Contribution ID: 5

Type: **not specified**

## Participants introductions and expectations

*Tuesday, 19 March 2019 09:10 (15 minutes)*

**Presenter:** NIELSEN, Lars Holm (CERN)

Contribution ID: 6

Type: **not specified**

## **Introduction to Invenio**

*Tuesday, 19 March 2019 09:25 (10 minutes)*

**Presenter:** NIELSEN, Lars Holm (CERN)

Contribution ID: 7

Type: **not specified**

## Getting started with Invenio

*Tuesday, 19 March 2019 09:35 (55 minutes)*

In this session, we will first make sure everybody got connectivity and have the training material.

Afterwards, we will scaffold, install and run your first Invenio instance.

**Presenter:** NIELSEN, Lars Holm (CERN)



Contribution ID: 8

Type: **not specified**

## Tour of Invenio

*Tuesday, 19 March 2019 10:45 (30 minutes)*

In this session, we will explore Invenio from a user's perspective. We will see the different parts of the user interface, we will explore the REST API and we will create, submit and search for records.

**Presenter:** IOANNIDIS, Alexandros (CERN)

Contribution ID: 9

Type: **not specified**

## Infrastructure overview

*Tuesday, 19 March 2019 11:15 (45 minutes)*

In this session, we will explore the underlying infrastructure of an Invenio repository. We will see the database, search engine, cache, message queue, load balancer, web server, application server, application background workers. We will explore tools to interact with the services and we will see monitoring and debugging interfaces like Flower, Kibana and RabbitMQ management interface.

**Presenter:** IOANNIDIS, Alexandros (CERN)

Contribution ID: **10**

Type: **not specified**

## Running Invenio

*Tuesday, 19 March 2019 13:30 (30 minutes)*

In this session, we will explore basic concepts and commands that are useful for the day-to-day development and running of an Invenio instance.

**Presenter:** IOANNIDIS, Alexandros (CERN)

Contribution ID: **11**

Type: **not specified**

## Customising the look and feel

*Tuesday, 19 March 2019 14:00 (1 hour)*

In this session we will customize minor visual elements of our Invenio instance, like the logo of our instance, the colors and fonts, the way search results for records are displayed and the display page for every record.

**Presenter:** IOANNIDIS, Alexandros (CERN)

Contribution ID: 12

Type: **not specified**

## Anatomy of a repository

*Tuesday, 19 March 2019 15:15 (45 minutes)*

In this session we will discuss about the files contained in the repository, how to initialise git for the project, build the documentation. We will learn about the supporting services and how to run them for development.

**Presenter:** PRZERWA, Karolina (CERN)

Contribution ID: 13

Type: **not specified**

## Data models: Add a new field

*Wednesday, 20 March 2019 09:00 (1h 30m)*

In this session, we will learn how to update our datamodel. We will show you how to update your JSONSchema in order to store a new field in the database and your Elasticsearch mapping so you can search for it. Moreover we will learn how Marshmallow schema can be used by your loaders and serializers to validate/transform your data.

**Presenter:** ZACHARODIMOS, Zacharias (National Technical Univ. of Athens (GR))

Contribution ID: 14

Type: **not specified**

## Data models: Build from scratch

*Wednesday, 20 March 2019 10:45 (1h 15m)*

**Presenters:** RODRIGUEZ RODRIGUEZ, Diego (CERN); ZACHARODIMOS, Zacharias (National Technical Univ. of Athens (GR))

Contribution ID: 15

Type: **not specified**

## Build a simple deposit form

*Wednesday, 20 March 2019 13:30 (30 minutes)*

The goal of this session is to learn how we can build a new simple form to be able to deposit new records validating user input. The invenio-deposit module is not in the scope of this exercise.

**Presenter:** TAROCCO, Nicola (CERN)



Contribution ID: 16

Type: **not specified**

## Managing access to records

*Wednesday, 20 March 2019 15:15 (1h 30m)*

The goal of this session is to be able to protect your records individually and your views with permission factories and decorators.

**Presenter:** PRZERWA, Karolina (CERN)

Contribution ID: 17

Type: **not specified**

## Securing your Invenio instance

*Thursday, 21 March 2019 09:00 (1h 30m)*

In this session, we will discover the key points which will ensure that your Invenio instances are secure. We will learn how to protect the web application with configuration, package management and authentication.

**Presenter:** RODRIGUEZ RODRIGUEZ, Diego (CERN)

Contribution ID: **18**

Type: **not specified**

## Deployment and monitoring

*Thursday, 21 March 2019 10:45 (1h 15m)*

In this session we will present how tune deployment configuration of each part of the infrastructure and how to size it to be able to serve a targeted number of requests. We will also explain what to monitor and a few tips on how to take advantage of logging.

**Presenter:** TAROCCO, Nicola (CERN)

Contribution ID: 19

Type: **not specified**

## Application architecture

*Thursday, 21 March 2019 13:30 (1h 20m)*

**Presenter:** NIELSEN, Lars Holm (CERN)

Contribution ID: 20

Type: **not specified**

## **Roadmap and Invenio development @ CERN**

*Thursday, 21 March 2019 15:00 (10 minutes)*

**Presenter:** NIELSEN, Lars Holm (CERN)

Contribution ID: **21**

Type: **not specified**

## Feedback

*Thursday, 21 March 2019 15:10 (20 minutes)*

**Presenter:** NIELSEN, Lars Holm (CERN)

Contribution ID: 22

Type: **not specified**

## Closing

*Thursday, 21 March 2019 15:30 (10 minutes)*

**Presenter:** NIELSEN, Lars Holm (CERN)

Contribution ID: 23

Type: **not specified**

## Recap

*Thursday, 21 March 2019 14:50 (10 minutes)*

**Presenter:** NIELSEN, Lars Holm (CERN)



Contribution ID: 24

Type: **not specified**

## Recap

*Wednesday, 20 March 2019 16:45 (10 minutes)*

**Presenter:** NIELSEN, Lars Holm (CERN)

Contribution ID: 25

Type: **not specified**

## Recap

*Tuesday, 19 March 2019 16:45 (10 minutes)*

**Presenter:** NIELSEN, Lars Holm (CERN)

Contribution ID: 26

Type: **not specified**

## Data models: Linking records

*Wednesday, 20 March 2019 14:00 (1 hour)*

The goal of this session is to learn how to take advantage of Elasticsearch to index records in a format that can be more adapted to our needs. We will also learn how we can link records using references, with a technique similar to JSON Reference.

**Presenter:** TAROCCO, Nicola (CERN)

Contribution ID: 27

Type: **not specified**

## Fix me

The goal of this session is to become familiar with Invenio instance testing.

**Presenter:** PRZERWA, Karolina (CERN)

Contribution ID: 28

Type: **not specified**

## Dealing with Python dependencies

*Tuesday, 19 March 2019 16:00 (45 minutes)*

This session will provide us with basic information about how to manage python dependencies in development environment.

**Presenter:** PRZERWA, Karolina (CERN)