



CERN
openlab

A URL Shortening Microservice

Openlab Summer Student Presentation

Varun Joshi
Supervisors: Pedro Ferreira, Bruno Silva De Souza

11-08-2017

WHY?

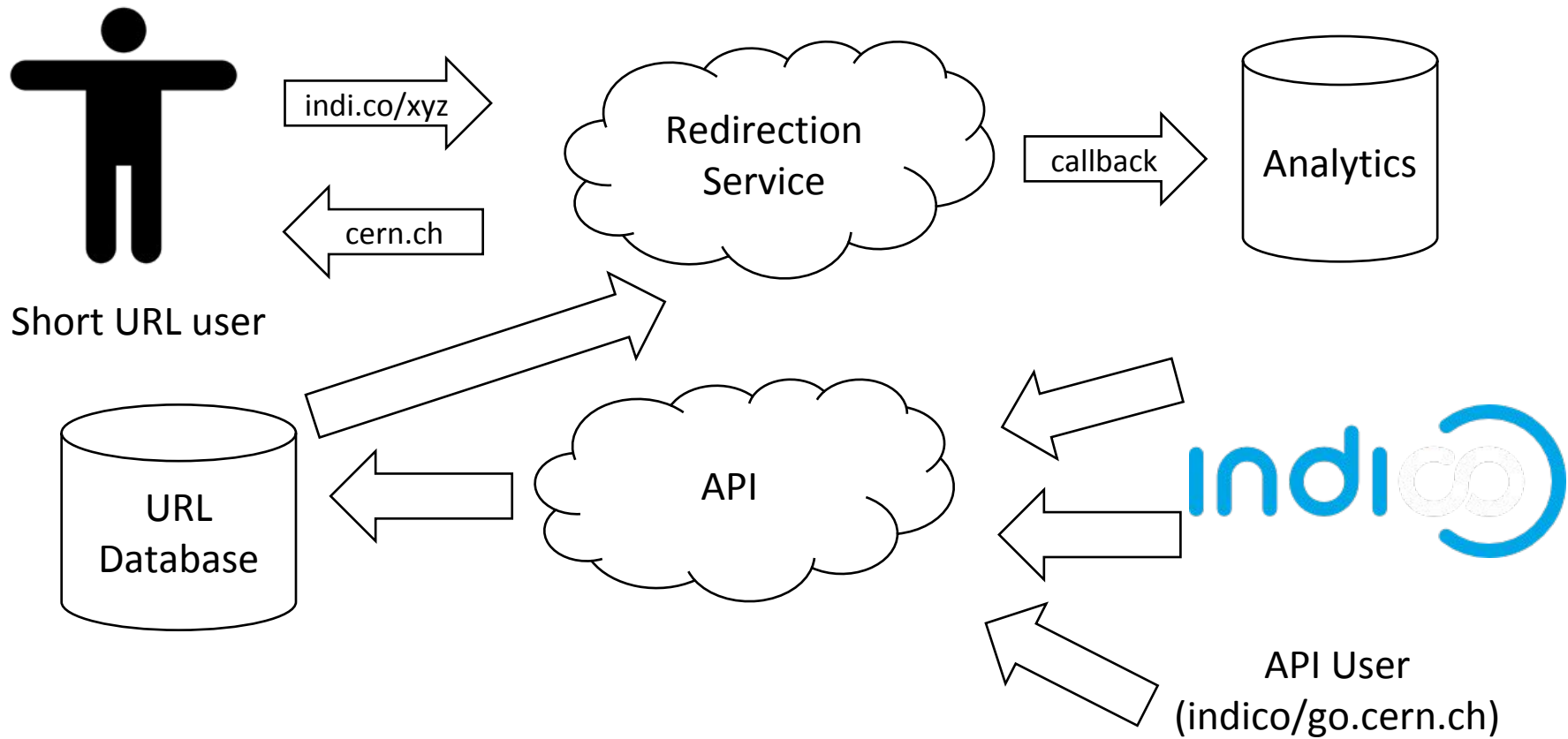
Wait, why does CERN need a URL shortener?

- Collaboration and distribution of results
- Shared need across groups
- Maintenance burden
- go.cern.ch
- Alternatives

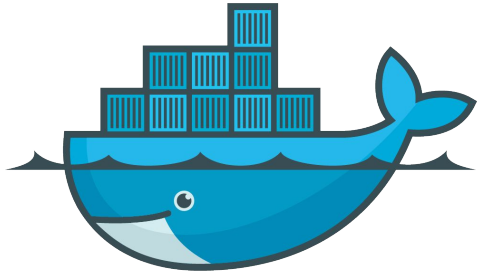
WHAT DO WE NEED?

- To shorten URLs
- Support for custom URLs
- Store metadata
- Support callbacks for analytics
- Small footprint: microservice
- RESTful
- API documentation
- High performance

OVERVIEW



TECHNOLOGY

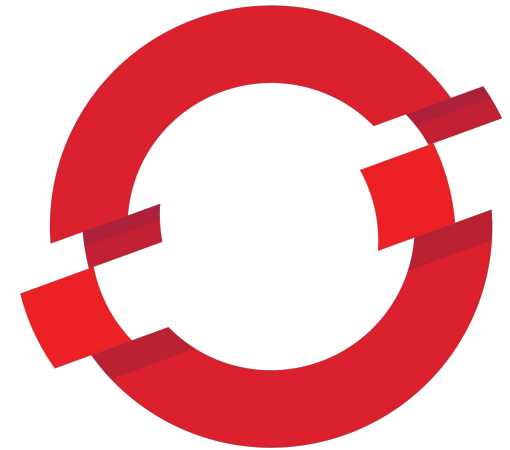


docker



Flask

web development,
one drop at a time



OPENSHIFT



PROGRESS

- API
- Redirection Service
- Swagger Documentation
- Unit Tests
- OpenShift Template
- URL Health Check

WHAT I LEARNT

- Python + Flask
- PostgreSQL
- Coding standards
- Deployment
- Docker

FUTURE GOALS

- Health check
- Multidomain support
- Logging

Thank you!