# A URL Shortening Microservice

*Openlab Summer Student Presentation*

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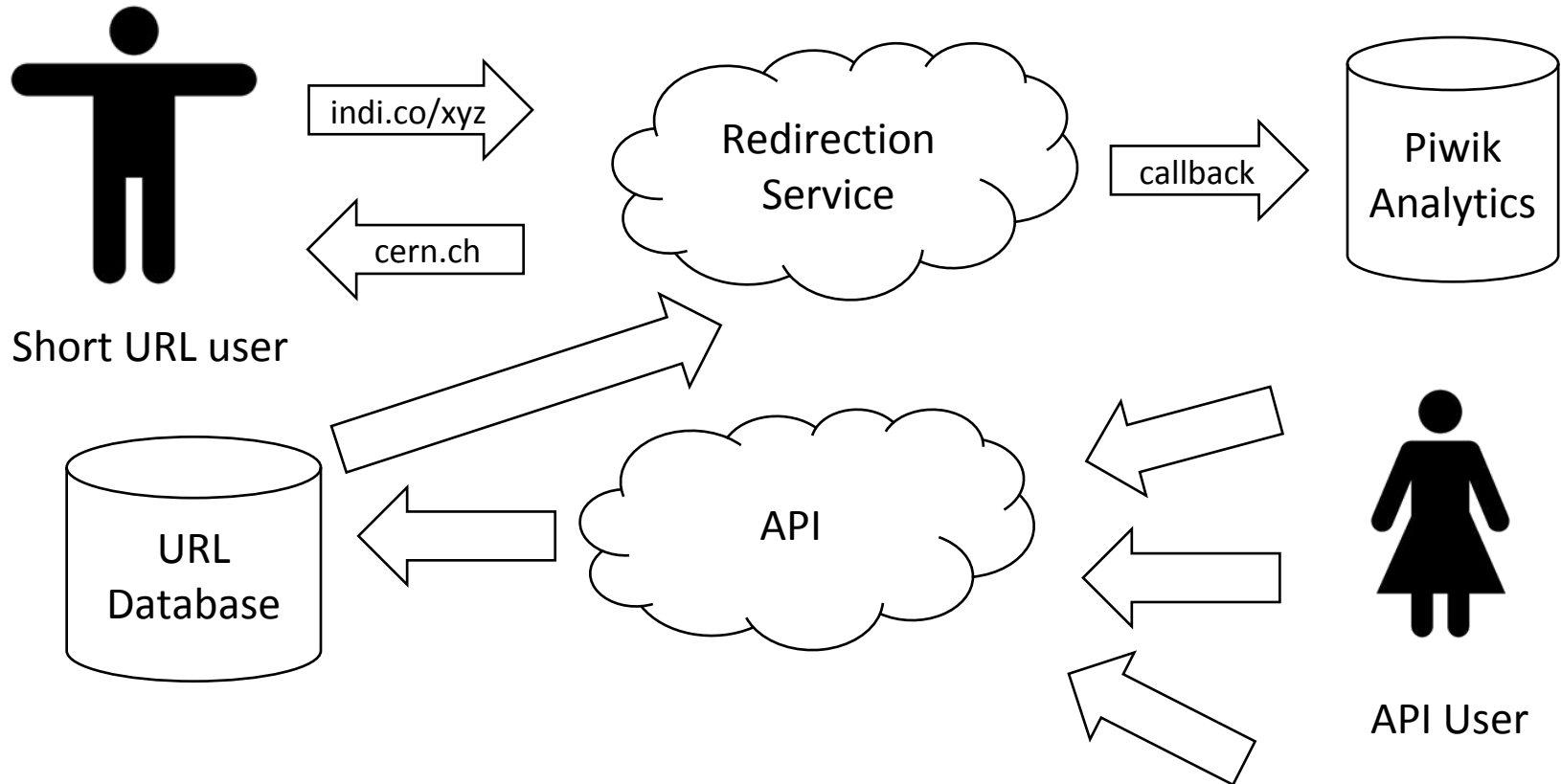
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# WHY?

*Wait, why does CERN need a URL shortener?*

- Collaboration and distribution of results

- Shared need across groups

- Maintenance burden

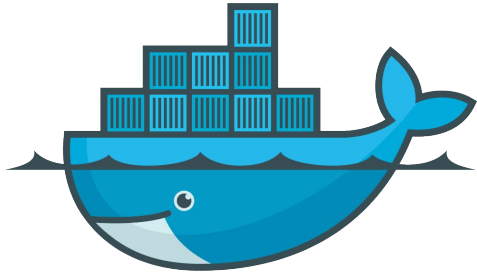- go.cern.ch

- Alternatives

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# WHAT DO WE NEED?

- To shorten URLs

- Support for custom URLs

- Store metadata

- Support callbacks for analytics

- Small footprint: microservice

- RESTful

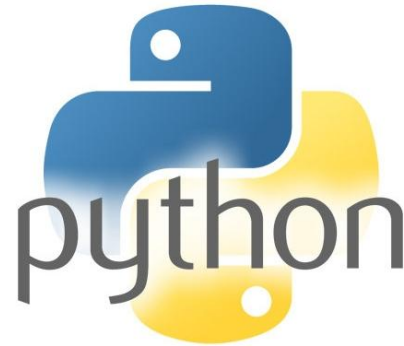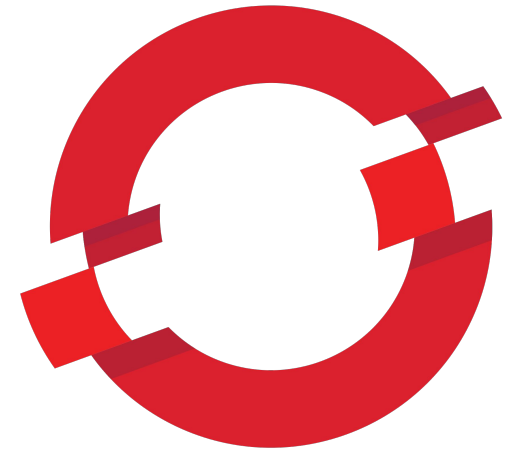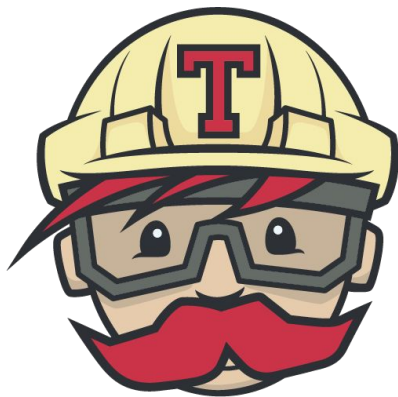- API documentation

- High performance

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# OVERVIEW



Short URL user

indi.co/xyz

cern.ch

Redirection Service

callback

Piwik Analytics

URL Database

API

API User

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# TECHNOLOGY

# PROGRESS

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

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# WHAT I LEARNT

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

# FUTURE GOALS

- Health check

- Multidomain support

- Logging

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# Thank you!