QGIS Server, Docker and OpenShift

Yves Bolognini – Swiss QGIS User Group – Olten, June 13, 2019

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Agenda

- QGIS and GeoMapFish

- OpenShift and GeoMapFish

- All three together

- Demonstration

Demonstration (1/2)

- Change a layer's color...

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GeoMapFish and QGIS
QGIS / Mapserver

- History

  - → GeoMapFish 1.5: Mapserver

  - ~2015, GeoMapFish 1.6: QGIS integration

  - From GeoMapFish 2.2: uses QGIS specific features

  - Now: more and more projects use QGIS

- Possible to have both in one GeoMapFish project
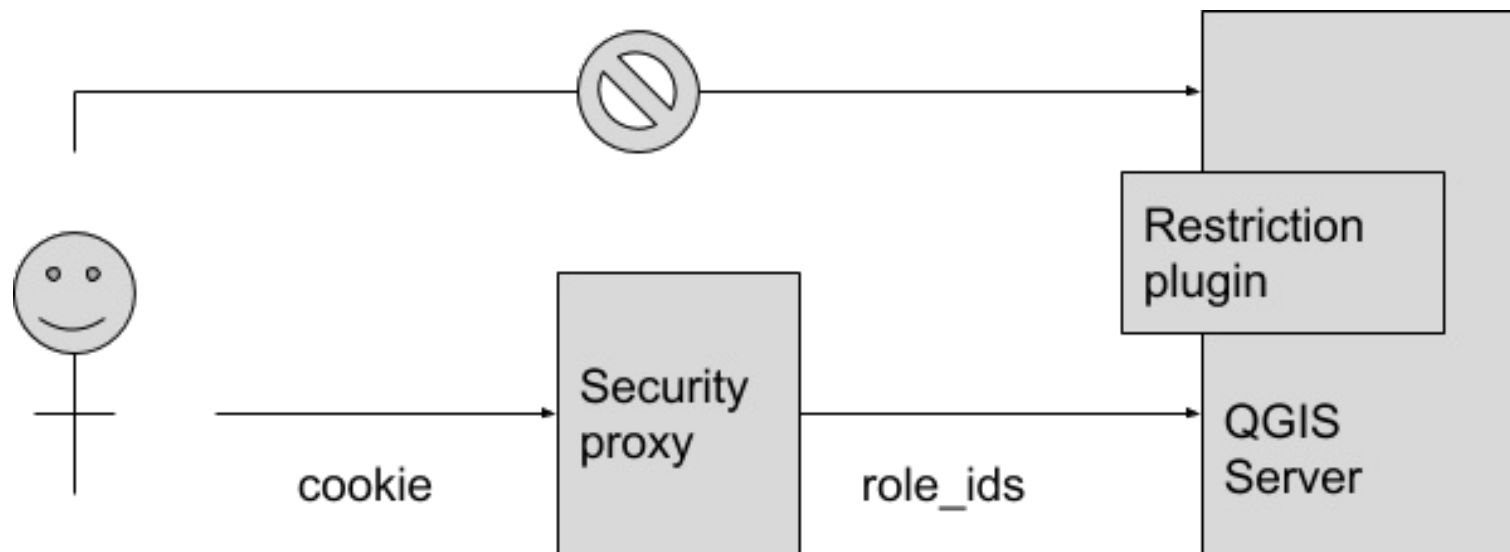
- Uses the best of both worlds, for instance:

  - 300 DPI legends with QGIS

  - No WMS-Time with QGIS

GeoMapFish and QGIS
QGIS Server Security Proxy

- Proxy knows about cookie → user → roles

- Restriction plugin knows about roles → restrictions
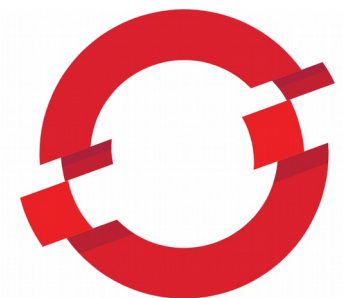
GeoMapFish and OpenShift Introduction

- Docker status
  - Moving to Docker since early 2018
  - Currently two modes available (Docker and not Docker)
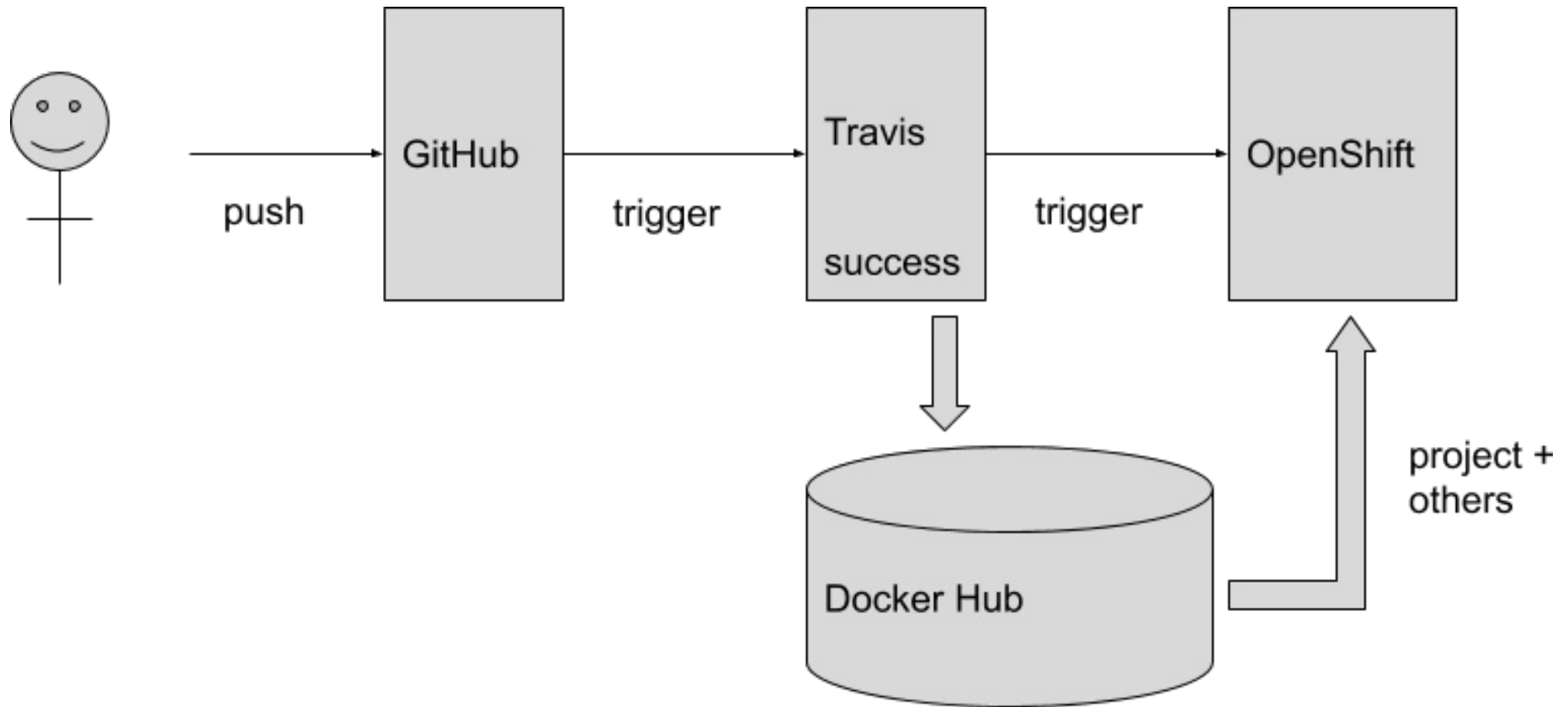 - Version 2.5 will be Docker-only
- OpenShift
  - Docker container platform by Red Hat
  - Based on Kubernetes orchestration system
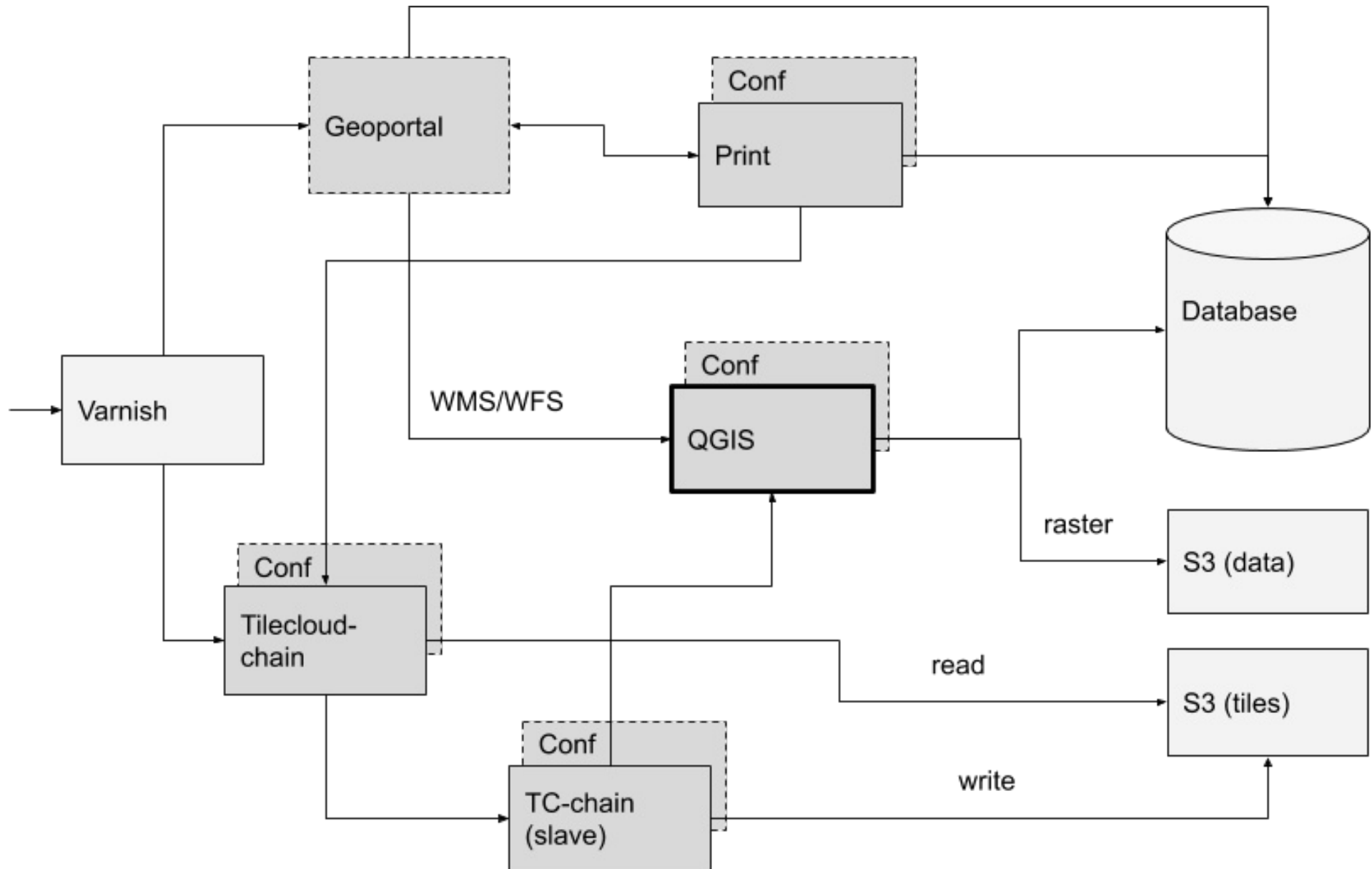 - The clean way to put Docker in production

GeoMapFish and OpenShift Continuous Integration

All Three Together – Architecture

All Three Together
Status

- Docker images at Camptocamp
  - Standard QGIS Server
  - QGIS Server ready for GeoMapFish
- Demonstration application
  - Includes QGIS Server data
  - Runs on OpenShift
  - https://geomapfish-demo-2-4.camptocamp.com
- A couple projects now migrating to OpenShift

Demonstration (2/2)

- Change a layer's color…

- …and see the change on geoportal

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Contacts

- Thank you for your attention!

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