

CREDO server

data storage & access

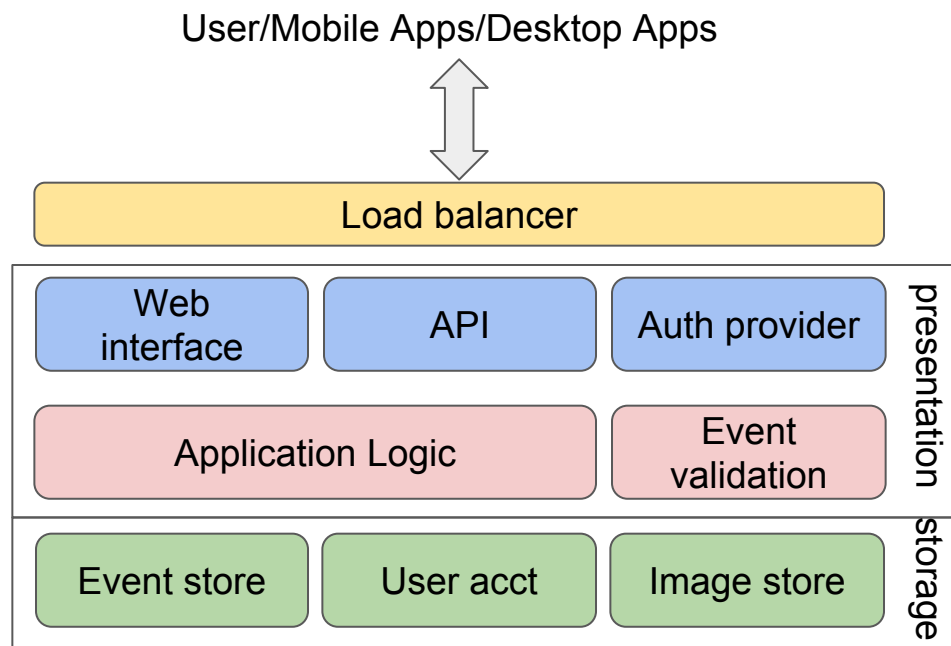
Objectives

- Manage information about detections
 - store/process/share
- Integrate with credo ecosystem (mobile/desktop/web app)
 - interface versioning
- User management

- Extensibility (documentation)
- Scalability
- Simplicity
- Community driven (OS, github.com)

Architecture

- Web Interface & data access
 - Web Portal
 - REST API
 - i18n
- User management
 - authentication & authorization
 - credentials and credential delegation
- Persistence of event information
 - Detection store



Technical details - presentation

- Load balancing
- Web portal
- API Service
 - schema support
 - data driven
 - versioning
- User management
 - authentication & authorization
 - credential delegation



django

django
REST
framework

Core API



Technical details - storage

- Data diversity:
 - some is structured
 - and we have big binary blobs
- Relational database
 - HA and performance considerations
 - GIS support
 - stats generation & regeneration
- Object store
 - Does “heavy lifting”
 - handles many small images, and many big ones



Deployment

- Cyfronet Compute Cloud
 - scalability options: manually, app level, containers
- Database & Object store hosted at Cyfronet

Thank you for the attention!