



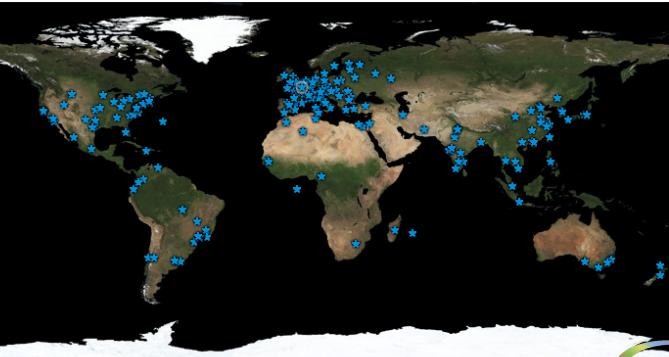
Consolidating OW2 Project Metrics with GrimoireLab

CHAOSCon + GrimoireCon Europe 2018

Assad Montasser

Brussels, Feb. 2018

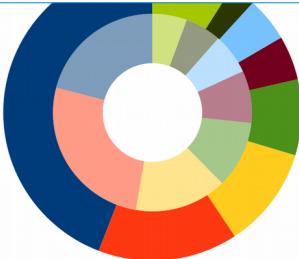




OW2

Non-Profit Open Source Organization European and Global

Community



Governance



Code Base

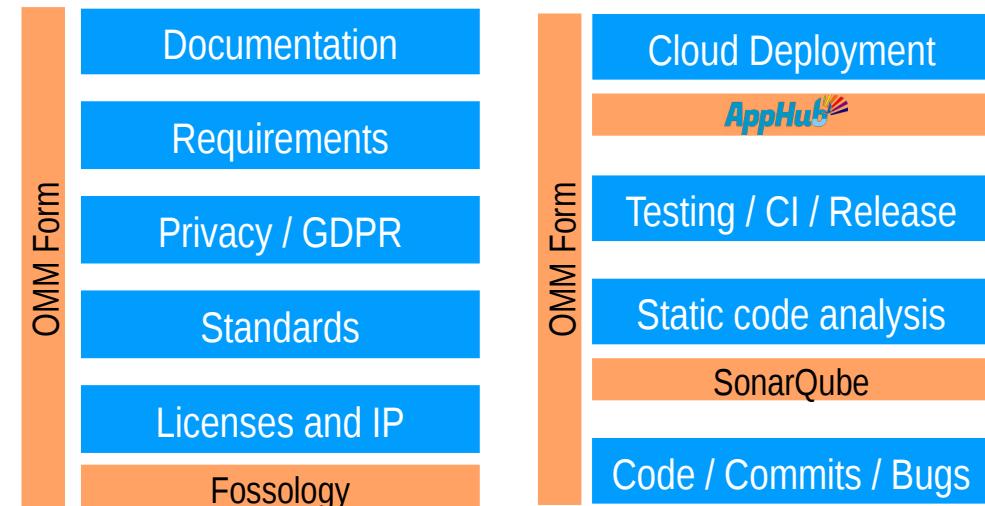


OW2 OSCAR

- A methodology and a platform
- Quality assessment tools
- Raw data + risk assessment models
- Transparent information on projects
- Check-list of best practices to reach market maturity



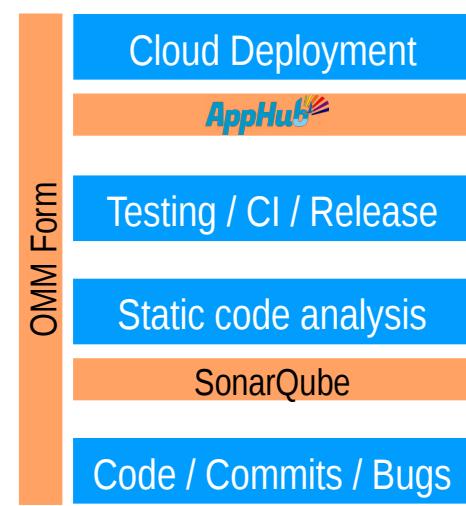
Metrics / Scorecards



Governance



Engineering



Today: Fragmented Dashboards

ProActive Parallel Suite

Overview Quality Assessment Tools Risk Drivers Market Readiness

Licensing Code Quality Activeness

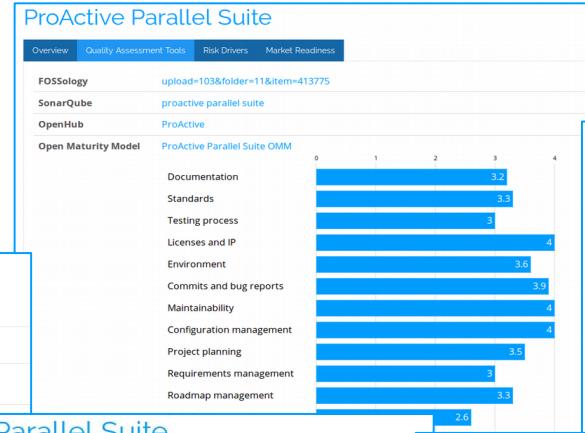
Metric	Value	Source
Lines	186,764	
Ncloc	99,115	
Classes	1,343	
Files	1,133	
Directories	247	
Functions	7,539	
Accessors	1,159	
Statements	43,171	
Public API	5,768	
Comment lines	18,293	
Comment lines density	15.6%	
Public documented API density	46.1%	

ProActive Parallel Suite

Overview Quality Assessment Tools Risk Drivers Market Readiness

Licensing Code Quality Activeness

Metric	Value	Source
OpenHub activity score	0	OpenHub
OpenHub one year contributor count	11	OpenHub
OMM configuration management	0	ProActive Parallel Suite OMM
OMM project planning	0	ProActive Parallel Suite OMM
OMM requirements	0	ProActive Parallel Suite OMM
OMM roadmap	0	ProActive Parallel Suite OMM
OMM stakeholders	1	ProActive Parallel Suite OMM



ProActive Parallel Suite

Overview Quality Assessment Tools Risk Drivers Market Readiness

License	File count	Source
AGPL-3.0	940	FOSSology
No_license_found	427	FOSSology
MPL	12	FOSSology
Microsoft-possibility	6	FOSSology
BSD	6	FOSSology
Apache-2.0	5	FOSSology
MIT	4	FOSSology

ProActive Parallel Suite

Overview Quality Assessment Tools Risk Drivers Market Readiness

Choose a Risk Model: OW2 Risk Model

Indicators	Value	Normalized	Computed Score
License risk	1.7	3	1.7
Quality Risk	3.5	1	
Activeness Risk	0.9	0	

License risk	Value	Normalized
Unique license	17	3
Ratio no license	30%	1
OMM License Indicator	0	0

Quality risk	Value	Normalized
Blocker issues	131	4
Critical issues	183	4
Test coverage		5
Test success		5
OMM documentation	1	0
OMM standards	0	0

riscoss

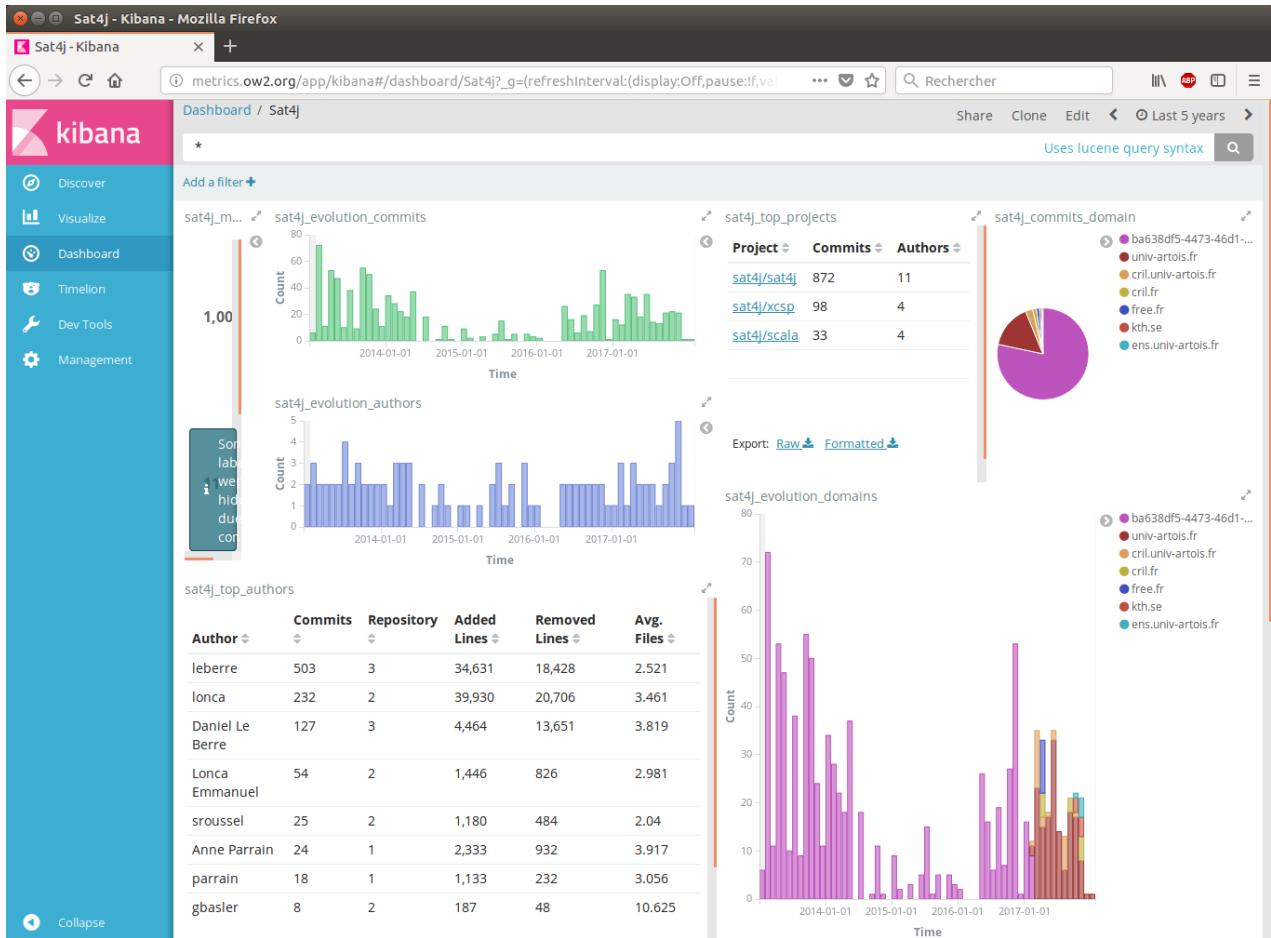
OW2 & GrimoireLab

OW2 & GrimoireLab



- ▶ URL : <http://metrics.ow2.org>
- ▶ Commits tracking on a Gitlab repository
 - ▶ Perceval Git backend allows to retrieve commits both on Github and Gitlab repositories
 - ▶ Metrics on commits by author for each project inside a repository
 - ▶ Metrics on commits by project for each author
 - ▶ Metrics on evolution of commits by time and by author

Tomorrow: Consolidated Dashboards



OW2 & GrimoireLab



- ▶ Issue tracking on a Gitlab repository
 - ▶ Perceval Gitlab backend allows to retrieve issues in Gitlab repository
 - ▶ Github:
<https://github.com/grimoirelab/perceval/blob/master/perceval/backends/core/gitlab.py>
- ▶ Next steps
 - ▶ Integration in grimoireelk in order to store enriched items in ElasticSearch
 - ▶ Kibana dashboard in order to show metrics

OW2 & GrimoireLab

Gitlab API



Mozilla Firefox

Sat4j - Kibana | GrimoireELK/utils at master | perceval/gitlab.py at master | gitlab.ow2.org/api/v4/... | +

JSON Données brutes En-têtes

Enregistrer Copier

0:

```
id: 2612
iid: 5
project_id: 41
title: "Allow testing of Sat4j on both Java 7 and Java 8 VMs"
description: "A user described that the behavior of Sat4j could be different on Java 7 and Java 8 VM.\n\nIn order to study that, we need to be able to launch the tests both on a Java 7 and a Java 8 context."
state: "closed"
created_at: "2017-08-23T15:09:25.876Z"
updated_at: "2017-09-21T19:50:48.258Z"
closed_at: "2017-09-21T19:50:48.060Z"
labels: []
milestone: null
assignees: []
author:
  id: 25
  name: "Daniel Le Berre"
  username: "leberre"
  state: "active"
  avatar_url: "https://gitlab.ow2.org/uploads/-/system/user/avatar/25/avatar.png"
  web_url: "https://gitlab.ow2.org/leberre"
  assignee: null
  user_notes_count: 1
  upvotes: 0
  downvotes: 0
  due_date: null
  confidential: false
  discussion_locked: null
  web_url: "https://gitlab.ow2.org/sat4j/sat4j/issues/5"
time_stats:
  time_estimate: 0
  total_time_spent: 0
  human_time_estimate: null
  human_total_time_spent: null
1:
id: 127
iid: 4
project_id: 41
title: "How can we explain that SonarQube identifies 2.2k unit tests in Sat4j and a coverage of 0?"
description: "At https://sonarqube.ow2.org/dashboard?id=org.ow2.sat4j%3Aorg.ow2.sat4j.pom"
state: "closed"
created_at: "2017-03-23T10:22:21.700Z"
updated_at: "2017-06-08T15:15:44.981Z"
closed_at: null
labels: []
```

OW2 & GrimoireLab



►Next steps

- Mbox messages metrics using GrimoireLab
- Download statistics: for the moment in stand by until technical solution for File Release System decided internally



Thank You

And now let's talk
Q&A
Disagreements
Complements
Feedback
etc.

ow2

www.ow2.org