

March2018

/\ FINAL (!)

Incubator PMC report for March 2018

Timeline

Wed March 07	Podling reports due by end of day
Sun March 11	Shepherd reviews due by end of day
Sun March 11	Summary due by end of day
Tue March 13	Mentor signoff due by end of day
Wed March 14	Report submitted to Board
Wed March 21	Board meeting

Shepherd Assignments

Dave Fisher		Gearpump
Dave Fisher		HTrace
Drew Farris		AriaTosca
Drew Farris		PLC4X
John Ament		Nemo
John Ament		Taverna
Justin Mclean		Crail
P. Taylor Goetz		Dubbo
P. Taylor Goetz		SINGA
P. Taylor Goetz		ServiceComb
Timothy Chen		Griffin
Timothy Chen		Omid
Timothy Chen		SkyWalking
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="d3d6a8e9-ba32-4312-8cc3-33d35c5f1b87"><ac:plain-text-body><![CDATA[	[none]	Daffodil]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="48912b99-9457-4676-9182-396a2bea0e45"><ac:plain-text-body><![CDATA[	[none]	Druid]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="9d32ef8f-b711-4657-a77b-048052340d50"><ac:plain-text-body><![CDATA[	[none]	ECharts]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="46e5aef3-1492-49c6-a9ee-10694a254c26"><ac:plain-text-body><![CDATA[	[none]	Hivemall]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="2034db87-0359-4970-8a0d-7f3ee5698447"><ac:plain-text-body><![CDATA[	[none]	Milagro]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="27a92e3a-b156-47e7-9576-c5715dfbca7a"><ac:plain-text-body><![CDATA[	[none]	Myriad]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="785c35c7-405d-4e17-821e-ff28740bb816"><ac:plain-text-body><![CDATA[	[none]	OpenWhisk]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="bf6839d8-adff-4435-be42-e4d4674b4b02"><ac:plain-text-body><![CDATA[	[none]	Pony Mail]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="e7371d0c-fbab-4073-8a80-177466f8e0b6"><ac:plain-text-body><![CDATA[	[none]	Pulsar]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="158d3cfd-2cb2-4183-a0c6-77ef0d139cb8"><ac:plain-text-body><![CDATA[	[none]	Quickstep]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="0e6b79ec-e3c2-4bb4-bef7-9e2f08687adf"><ac:plain-text-body><![CDATA[	[none]	SAMOA]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="bbd07411-1067-4763-86e3-4eb766946923"><ac:plain-text-body><![CDATA[	[none]	Slider]]></ac:plain-text-body></ac:structured-macro>

<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="fa4a0ea5-ee5d-445b-b922-c652a3a5d1b6"><ac:plain-text-body><![CDATA[	[none]	Spot	]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="72a142ba-26c5-42b2-b576-2e2dfd528979"><ac:plain-text-body><![CDATA[	[none]	Superse t	]]></ac:plain-text-body></ac:structured-macro>
<ac:structured-macro ac:name="unmigrated-wiki-markup" ac:schema-version="1" ac:macro-id="ccc8216e-5c7d-4628-abef-8d7acb44e6b6"><ac:plain-text-body><![CDATA[	[none]	Tephra	]]></ac:plain-text-body></ac:structured-macro>

Report content

Incubator PMC report for March 2018

The Apache Incubator is the entry path into the ASF for projects and codebases wishing to become part of the Foundation's efforts.

There are currently 54 podlings under incubation. We added 1 new IPMC member, 3 new podlings and executed on 4 releases. The HTrace report indicates retirement in flight.

* Community

New IPMC members:

- Timothy Chen

People who left the IPMC:

* New Podlings

- Druid
- Dubbo
- Nemo

* Podlings that failed to report, expected next month

- Gearpump
- Hivemall
- Milagro
- Pony Mail
- Quickstep
- SINGA

* Graduations

The board has motions for the following:

- Freemarket

* Releases

The following releases entered distribution during the month of February:

- 2018-02-05 Apache Livy 0.5.0
- 2018-02-15 Apache Netbeans 9.0 beta
- 2018-02-19 Apache PonyMail 0.10.0
- 2018-02-19 Apache MXNet 1.1.0

* IP Clearance

* Legal / Trademarks

- See Daffodil's report related to open legal questions.
- See SkyWalking's report for open questions around optional modules under discussion on legal lists.

* Infrastructure

* Miscellaneous

* Credits

Table of Contents

AriaTosca
Crail
Druid
Dubbo
ECharts
Griffin
HTrace
Myriad
Nemo
Omid
OpenWhisk
PLC4X
Pulsar
Quickstep
SAMOA
ServiceComb
SkyWalking
Slider
Spot
Superset
Taverna
Tephra

AriaTosca

ARIA TOSCA project offers an easily consumable Software Development Kit(SDK) and a Command Line Interface(CLI) to implement TOSCA(Topology and Orchestration Specification of Cloud Applications) based solutions.

AriaTosca has been incubating since 2016-08-27.

Three most important issues to address in the move towards graduation:

1. Grow the community and enroll new committers.
2. Have (more) frequent Release cycles to be compliant with the Apache Way.
3. Grow the project's contributions from existing community of contributors

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

1. The project issued its third release (0.2.0) as far as the code is concerned. Some considerable functionality has been added since the last release in addition to a growth in diversity of contributions.

How has the community developed since the last report?

- * All project communication now takes place on either the mailing list or ASF's Slack, and is open for everybody. We have worked hard to make this the normal operating mode of the community. There have been some hiccups, but in general the majority of discourse has taken place on the list.
- * Increased chatter on the mailing list including new subscribers who ask questions, make suggestions and are likely to become contributors themselves in the near future.
- * Weekly grooming meetings are now attended by the majority of the community. This is not only a forum to review the weekly work items list, but also as a place for open discussion about issues, questions as well as for the community to get to better know each other.

How has the community developed since the last report?

Over the last 3 months we have seen a significant increase in contributions as well as a few new contributors, particularly from the Ericsson contingent.

How has the project developed since the last report?

ARIA now has two new patches considerably extend the parser's plugin/extensions

Website and documentation improvements for usability and to enhance new user Usability in terms of "getting started" instructions

9 JIRA issues have been resolved since the last report. Note that the repository was locked for several weeks during this period due to release process issues and learning curve.

We will be doing another release during this quarter.

The community has begun to undertake updating AriaTosca to support the Tosca 1.1 Simple YAML profile.

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

The 0.2.0 release was issued on January 16, 2018. The .3 release is planned for this quarter.

When were the last committers or PPMC members elected?

Tom Nadeau was added to the PMC/committers on 11/28/2017

Signed-off-by:

- [X](ariatosca) Suneel Marthi
Comments: Podling needs to focus on growing the community and a more frequent release cadence.
- [X](ariatosca) John D. Ament
Comments: It's a small group. On list communication is still a struggle.
- [X](ariatosca) Jakob Homan
Comments: Small but growing slowly and heading in the right direction.

Crail

Crail is a storage platform for sharing performance critical data in distributed data processing jobs at very high speed.

Crail has been incubating since 2017-11-01.

Three most important issues to address in the move towards graduation:

- 1 Community building
2. Improve project visibility
3. Create a first release

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

* None

How has the community developed since the last report?

- * We got one new active committer.
After moving the code base under apache/incubator-craill, we are re-gaining frequency on downloads and followers
- * To advertise the project, we are preparing for the SF Spark Summit presentation on Craill.
We got a presentation on Craill's non-volatile data management accepted at OpenFabrics workshop in April.

How has the project developed since the last report?

- * Podling name search done and approved by Legal.
- * Applied fixes resolving two major bugs within Craill code.
- * New project front end website.

How would you assess the podling's maturity?

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

N/A

When were the last committers or PPMC members elected?

2017-11-01 (entering incubation)

Signed-off-by:

- (craill) Julian Hyde
Comments: Good progress on the "admin" aspects of incubation, and dev list is showing good activity.
- (craill) Luciano Resende
Comments:
- (craill) Raphael Bircher
Comments:

Daffodil

Apache Daffodil is an implementation of the Data Format Description Language (DFDL) used to convert between fixed format data and XML/JSON.

Daffodil has been incubating since 2017-08-27.

Three most important issues to address in the move towards graduation:

1. Complete first Apache release as an Incubator
2. Broaden base of contributors and build the community (e.g. work with other Apache projects where Daffodil could provide extra functionality)
3. Improve documentation on setting up a development environment to ease the addition of new developers

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

- Outstanding legal issue regarding Open Grid Forum document inclusion in Daffodil (LEGAL-369)

How has the community developed since the last report?

- No new committers. However, we have had activity from a couple outside users on the mailing lists asking about Daffodil capabilities/usage

How has the project developed since the last report?

- All SGA/CLAs have been submitted (from Tresys, IBM, and NCSA), all code relicensed to ASF, and package namespace switched to org.apache.daffodil
- Development pace has continued without any notable issues
- The first release candidate was created in February 2018. However, bugs were found that required an rc2 release. Those issues were resolved, but issues related to the LICENSE and NOTICE files were raised in the rc2 release vote. This is expected to require an rc3 release, planned to start voting in early March.

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

2017-09-06 - 2.0.0 (pre-Apache release)

When were the last committers or PPMC members elected?

- None, same as project incubation

Signed-off-by:

- (daffodil) John D. Ament
Comments: Project is moving in the right direction, and aiming for their first ASF release.
- (daffodil) David Fisher
Comments:

Druid

Druid is a high-performance, column-oriented, distributed data store.

Druid has been incubating since 2018-02-28.

Three most important issues to address in the move towards graduation:

1. Migrate existing contributors and users to apache mailing lists.
2. Move the source code and website to apache infrastructure.
3. Plan and execute our first Apache release.

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

- * The team is working on the items on the Incubation Checklist.
- * We're working on moving the existing mailing lists, source code, github issues and website to Apache Infrastructure.
- * In order to keep the project momentum up until the migration is complete we are continuing the development on existing druid repository.
- * We are considering doing the 0.12.0 release before migrating source code to apache, since the IPMC has already voted for it and migrating infra to apache might take a while, and we don't want to block 0.12.0 on this migration.

How has the community developed since the last report?

- * This is our first board report.
- * Current Status of our Github contributors (212), forks (1,516), watchers (524) and stars (6,157)

How has the project developed since the last report?

- * Creation of Domain name for Druid - DONE
- * Creation of Mailing lists - DONE.
- * A healthy, constant flow of bug fixes, quality improvements and new Features are still ongoing on <https://github.com/druid-io/druid>.

How would you assess the podling's maturity?

@Mentors Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

* No official release yet since being voted into Apache Incubation.
(Planning for the first Apache release in Q2, 2018)

When were the last committers or PPMC members elected?

* Project is still functioning with the initial set of committers.

Signed-off-by:

(druid) Julian Hyde

Comments:

Druid has only been in the incubator for a week, but the PPMC have already checked off quite a few of the initial tasks. This momentum is encouraging.

(druid) P. Taylor Goetz

Comments: Druid is off to a good start. They were not required to report this soon, but voluntarily did so.

(druid) Jun Rao

Comments:

Good start for Druid.

Dubbo

Dubbo is a high-performance, lightweight, java based RPC framework.

Dubbo has been incubating since 2018-02-16.

Three most important issues to address in the move towards graduation:

1. Get ICLA signed (currently got 7 out of 9 initial committers)
2. Get community to sign up and move discussion to dev@
3. Move codebase to Apache

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

None.

How has the community developed since the last report?

N/A(This is the first report)

How has the project developed since the last report?

N/A(This is the first report)

How would you assess the podling's maturity?

Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

2018-01-25 (before joining Apache Incubator)

When were the last committers or PPMC members elected?

N/A, right now all the PPMC members come from initial committers.

Signed-off-by:

(dubbo) Justin Mclean

Comments:

(dubbo) John D. Ament

Comments: Keep up the focus on the transition work.

(dubbo) Jean-Frederic Clere

Comments:

(dubbo) Mark Thomas

Comments: Transition is still underway. Good to see discussion with (prospective) mentors that was happening off-list has moved on-list.

ECharts

ECharts is a charting and data visualization library written in JavaScript.

ECharts has been incubating since 2018-01-18.

Three most important issues to address in the move towards graduation:

1. Move GitHub repository to apache/incubator-echarts.
2. Working towards first ASF release.
3. Build the community and attract more committers.

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

None.

How has the community developed since the last report?

1. Got all ICLA signed of initial committers.
2. Updated the license to apache v2

How has the project developed since the last report?

None

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

N/A

When were the last committers or PPMC members elected?

N/A

Signed-off-by:

(echarts) John D. Ament

Comments: No on list discussion of report. Some more user based discussions happening, no development activities.

(echarts) Daniel Gruno

Comments:

(echarts) Kevin A. McGrail

Comments:

(echarts) Dave Fisher

Comments: Slow startup.

Griffin

Griffin is a open source Data Quality solution for distributed data systems at any scale in both streaming or batch data context.

Griffin has been incubating since 2016-12-05.

Three most important issues to address in the move towards graduation:

1. Grow/Marketing the community since we will release milestone version soon.
2. Onboard use cases, we need to contact with our customers weekly for feedback.
3. Make profiling and accuracy matured based on feedback.

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

- None

How has the community developed since the last report?

- A new committer has been elected.
- More users had contacted us for use cases.

How has the project developed since the last report?

- Active development is moving on well, 38 commits in last three months.
- Measure module performance enhancement in streaming mode.
- Timeliness and uniqueness measure for batch and streaming mode has been developed.
- Publish measure management has been developed.
- Metrics management supported in service module.
- UI module for job schedule process has been developed.
- Work toward for next version release.

How would you assess the podling's maturity?

- Initial setup
- Working towards first release
- Community building - One new contributor
- Nearing graduation
- Other:

Date of last release:

- Nov 23rd, 2017

When were the last committers or PPMC members elected?

- A new committer was elected at Dec 21st, 2017

Signed-off-by:

- (griffin) Henry Saputra
Comments:
- (griffin) Kasper Sørensen
Comments:
- (griffin) Uma Maheswara Rao Gangumalla
Comments:
- (griffin) Luciano Resende
Comments:

HTrace

HTrace is a tracing framework intended for use with distributed systems written in java.

HTrace has been incubating since 2014-11-11.

Three most important issues to address in the move towards graduation:

1. -

- 2. -
- 3. -

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

The HTrace podling has seen no code activity in months. Discussion of sending it to the Attic have been circulating for some time as well. After literally no activity again over the last few months, it looks like it is time to progress with sending HTrace to the Attic.

How has the community developed since the last report?

It has not.

How has the project developed since the last report?

It has not.

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other: No activity.

Date of last release:

2016-03-04

When were the last committers or PPMC members elected?

2016-10-03

Signed-off-by:

- (htrace) Jake Farrell
Comments:
- (htrace) Todd Lipcon
Comments:
- (htrace) Lewis John McGibbney
Comments: In our January 2018 report we mentioned that "HTrace is very quiet. There is opportunity to continue work if we engage with projects already using HTrace. If that does not happen, we should retire the podling." We should therefore retire the podling.
- (htrace) Andrew Purtell
Comments:
- (htrace) Billie Rinaldi
Comments:
- (htrace) Michael Stack

Myriad

Myriad enables co-existence of Apache Hadoop YARN and Apache Mesos together on the same cluster and allows dynamic resource allocations across both Hadoop and other applications running on the same physical data center infrastructure.

Myriad has been incubating since 2015-03-01.

Three most important issues to address in the move towards graduation:
In this project state the most important action to move towards graduation is to create traction on the project again. So from my point of view the list of actions is the following:

- Promote the project in social networks, blog entries and so forth for getting interest again.

Get a few active new users.
 Refresh the state of unattended issues reported for interested users in the pass.

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

Only to be informed about new users are willing to boosting up the project again.

How has the community developed since the last report
The most relevant thing is the activation of mailing list again and a few new users willing to participate.

How has the project developed since the last report.
The project has not evolved since the last report.

How does the podling rate their own maturity.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation

Date of last release:
2016-05-29

When were the last committers or PPMC members elected?

Signed-off-by:

- (myriad) Benjamin Hindman
Comments:
- (myriad) Danese Cooper
Comments:
- (myriad) Ted Dunning
Comments:
- (myriad) Luciano Resende
Comments:

Nemo

Nemo is a data processing system to flexibly control the runtime behaviors of a job to adapt to varying deployment characteristics.

Nemo has been incubating since 2018-02-04.

Three most important issues to address in the move towards graduation:

1. Grow the community
2. Create a first Apache release
3. Donate code to ASF

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

None.

How has the community developed since the last report?

- * Committers filed ICLAs.
- * Committers enrolled in mailing lists
- * Committers enrolled in the slack channel
- * Committers used mailing lists to discuss initial setups
- * Committers started to send PRs to the apache infra

How has the project developed since the last report?

- * gitbox/github set up and code transferred from snuspl/nemo to apache/incubator-nemo
- * JIRA created and issues transferred from github to JIRA
- * web site set up
- * mailing lists set up

* The name 'Apache Nemo' approved (PODLINGNAMESEARCH-139)

How would you assess the podling's maturity?

Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

None yet.

When were the last committers or PPMC members elected?

None yet.

Signed-off-by:

- (nemo) Davor Bonaci
Comments: The podling is moving very quickly.
- (nemo) Hyunsik Choi
Comments:
- (nemo) Byung-Gon Chun
Comments:
- (nemo) Jean-Baptiste Onofre
Comments:
- (nemo) Markus Weimer
Comments:
- (nemo) Reynold Xin

IPMC/Shepherd notes:

johndament: Seeing good progress with on list communication.

Omid

Omid is a flexible, reliable, high performant and scalable ACID transactional framework that allows client applications to execute transactions on top of MVCC key/value-based NoSQL datastores (currently Apache HBase) providing Snapshot Isolation guarantees on the accessed data.

Omid has been incubating since 2016-03-28.

Three most important issues to address in the move towards graduation:

1. Boost project dissemination in the Apache community.
2. Collaborate/integrate Omid with other Apache projects.
3. Get positive feedback from other projects currently in Apache.

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

N/A

How has the community developed since the last report?

Apache Phoenix

How has the project developed since the last report?

HBase 0.x version being tested in prod environment at Yahoo.
Preparing 0.9.0 version.

Quarter Stats (from: 2017-12-01 to: 2018-02-28):

```

+-----+
| Metric | counts |
+-----+
| # of msgs in dev list | 108 |
| Active Contributors (incl mentors)| 8 |
| Jira New Issues | 2 |
| Resolved Issues | 8 |
| Pull Requests merged | 9 |
| Pull Requests proposed | 3 |
+-----+

```

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

2016-06-24

When were the last committers or PPMC members elected?

Signed-off-by:

- (omid) Alan Gates
Comments:
- (omid) Lars Hofhansl
Comments:
- (omid) Flavio P. Junqueira
Comments:
- (omid) Thejas Nair
Comments:
- (omid) James Taylor
Comments:

OpenWhisk

OpenWhisk is an open source, distributed Serverless computing platform able to execute application logic (Actions) in response to events (Triggers) from external sources (Feeds) or HTTP requests governed by conditional logic (Rules). It provides a programming environment supported by a REST API-based Command Line Interface (CLI) along with tooling to support packaging and catalog services. Additionally, it now provides options to host the platform components as Docker containers on various Container Frameworks such as Mesos, Kubernetes, and Compose.

OpenWhisk has been incubating since 2016-11-23.

Three most important issues to address in the move towards graduation:

Establish process for source release (automation work ongoing here <https://github.com/apache/incubator-openwhisk-release>) Increase contributions to maintain all project repos. Kubernetes and Mesos deployments work and integrations need improvement; comm, aware of lots of work being done in (private and public) forks.

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

- Issue backlog building on incubator-openwhisk has grown significantly; need to prioritize and work to reduce while advancing

performance/security/deployment issues.

- Trying to add more active Committers to augment those who have dropped off in their activity. A consistent hosted, staging environment would help repro. issues, as well as stage PRs to test fixes. It had been our intent to have Apache host our staging (and move it out of disparate private builds within various companies). However, INFRA indicates they only typically allocate 1 VM per project for use with demos and minor things. They indicate that perhaps a corporate donation is in order (ala. Spark).
- Goal: standup testing resources at Apache and utilize for public CI and performance testing of OpenWhisk on Kubernetes
- See discussion here: OpenWhisk / Kubernetes proposed epics/action items/questions
- No change in status since last quarterly report
- Formal hand-off of OpenWhisk trademark/logo from IBM needs to be executed; need to identify process for this.
 - Discussion started w/ Apache legal via "legal-discuss" mailing list with subject "Trademark handoff for "OpenWhisk" name and logo".
 - No change in status since last quarterly report

How has the community developed since the last report?

Mentor changes:

- Felix Meschberger and Sergio Fernández have stepped down from being mentors with regrets.
- Bertrand Delacretaz volunteered to become mentor to fill Felix' spot.
- Jim Jagielski volunteered to become mentor to fill Sergio's spot.
- dev mailing list usage has been relatively active
- incubator-openwhisk Github stars: 2877 (+696 since last report)
- incubator-openwhisk GitHub forks: 544 (+75 since last report)

The bi-weekly Zoom "Technical Interchange" continues to be well received and attended. Complete videos posted to OW YouTube channel and detailed notes to our CWIKI. YouTube Channel:

<https://www.youtube.com/channel/UCbzgShnQk8F43NKsvEYA1SA> CWiki Meeting

Notes: OpenWhisk Technical Interchange Meeting

Notes:<https://cwiki.apache.org/confluence/display/OPENWHISK/OpenWhisk+Technical+Interchange+Meeting+Notes>

New Contributors

- Michele Sciarra: developing a GoLang runtime w/ perf. tests
- Seonghyun Oh: working on a Bash runtime for functions
- Nhat Nguyen: NodeJS interest
- Sang Heon Lee: working on CouchDB implementation for ArtifactStore (WIP)
- Allen Servedio: identified a bug in wskdeploy, extended code to allow support for GitHub private repos.
- Vipul Kashyap: RedHat, no commits yet
- Lorna Mitchell: IBM, data service integrations (e.g., CouchDB), NodeJS, PHP runtimes
- Neeraj Mangal: discussing namespace enhancements
- Jason Peterson: IBM, maintaining packages Alarms, Push Notifications, Cloudant and Deploy
- Sudipta Biswas: support S390X deployment (i.e., power architectures)
- Kiseok Jang: Java (JVM) enhancement interest, no commits yet
- Junyoung Sung: interest in support Bash actions (runtime), no commits yet

How has the project developed since the last report?

Emphasis on 3 areas have been featured since last report:

- Release process
 - See incubator-openwhisk-release (code, tools, documentation), see demo (as of 2/28): YouTube
 - Lots of discussion and work on developing both a manual and automated (source code) release process for 12 openwhisk project repos. that constitute the project's platform and related tooling (i.e., version tied).
 - All steps in release process are described in repo's markdown that the comm. is working to complete
 - Checklists/Runbooks created for release managers to follow
 - Automation tested with signing/hashing as per Apache requirements

- still working on assuring all Apache license/legal/notice/change files are present (perhaps automated as well) issues with RAT and TENTACLES tools documented, working to document our exception lists and policies and alternative tools to verify licenses when not supported by RAT
- Security enhancements
 - Now encrypting "data-in-motion" by enabling SSL between Controllers, Kafka and Invokers.
- Scalability / Performance
 - Controller now uses fully scalable impl. instead of active with "hot standby"; lots of testing/changes to validate as optional before moving to promote as default on dev. list.
 - Introduced new LoadBalancer plug-in that uses Horizontal sharding; evaluating making it the default as perf. tests indicate notable improvement in controller-invoker throughput under load.
 - Improved handling of Artifact Attachments as a separate artifact (for storage/update/deletion) and provide alternative implementations (other than CouchDB), primarily Object Storage services as targets.
 - Made ActivationId implementation leaner by adopting UUID (single string) versus an object that wraps a UUID.
- Other Notable discussions/changes/issues/features:
 - Added support of Time-series DBs using Kamon Tag (e.g., OpenTSDB, Datadog)
 - Discussions on large (size) argument support in runtimes/impacts on performance/configurability.
 - Updated all tools/ubuntu-setup to support xenial and later Ubuntu releases.
 - Implementation of runtime for Go (GoLang) actions. New contributor authored new Invoker runtime and tested with 3 possible impls. for performance before submitting for review.
 - Action Compositions now supported in Controller and demonstrated on Interchange call; more changes may be coming for Controller to enable parallel processing.
 - Added A Pull Request (PR) template (checklist) for all code submissions (incubator-openwhisk) to assure they are ready for review and get assigned correctly.
 - <https://github.com/apache/incubator-openwhisk/pull/3386>
 - Action time limits are now configurable.

How would you assess the podling's maturity? Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Comments:

Need greater variety of contributors and contributing companies

Date of last release:

N/A

When were the last committers or PPMC members elected?

New Committers+PPMC: Dave Grove (2018-02-08), James Thomas (2018-02-08)
Mark Deuser (2018-02-22) New Committers: Priti Desai (2018-02-19)

Signed-off-by:

- (openwhisk) Bertrand Delacretaz
Comments:
- (openwhisk) Jim Jagielski
Comments:
- (openwhisk) Isabel Drost-Fromm
Comments:

PLC4X

PLC4X is a set of libraries for communicating with industrial programmable logic controllers (PLCs) using a variety of protocols but with a shared API.

PLC4X has been incubating since 2017-12-18.

Three most important issues to address in the move towards graduation:

1. Building the community: The PPMC and committer group has a large percentage of codecentric employees, we have been recruiting people from other companies, but will have to continue these efforts for establishing a healthy Apache community.
2. Onboarding of new committers: With PLC4X several people on the team are not very familiar with the Apache Way. We have started and will continue our efforts on this onboarding.
3. Make our first release

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

In order to get access to some of the specifications the ASF will eventually have to become Members of some external foundations: OPC, EtherCat, Modbus ... these memberships usually have a free level, that allows us to use the specifications but doesn't result in any regular costs. We will have to discuss these details with the ASF and the other foundations.

One of the external foundations (Profinet) doesn't have a free membership. In general, the CEO of the European branch of the Profinet Foundation has signaled that it should be possible for the ASF to become a member and have an outside company pay the membership fees, but we have to discuss the details (With them as well as the ASF).

How has the community developed since the last report?

Christofer has invested most of his time in February spreading the word about PLC4X.

A first POC has been created for the company "Kampf Schneid- und Wickeltechnik GmbH & Co. KG"

Two articles for IoT Special editions of German tech magazines have been submitted. The "JavaSPEKTURM - IoT Sonderheft" is scheduled for sale end of March, the "iX - IoT Sonderheft" is scheduled later.

The university of Stuttgart has shown great interest in joining our effort, as they had just started a project with a similar goal. Chris will continue on-boarding efforts in March.

At this year's AALE Conference in Cologne, Chris has talked to a lot of people from different German universities. We're hoping to get at least a hand full of them on board too.

We have continuing our onboarding of new Apache committers (extended emails with a lot of explanations on why we are doing things the way we are)

In the next few months we are expecting to spread the word and hopefully grow the community due to the tech magazine articles as well as several talks on different conferences.

How has the project developed since the last report?

The work on the RawSocket Netty transport which is a requirement to implement protocols that are IP based, but are not TCP or UDP has continued and we are currently waiting for infra to setup a dedicated Jenkins VM for our project so we can enable the RawSocket related tests.

We have finished a first version of the Beckhoff ADS driver, and are looking forward to first tests with this.

The functionality of the S7 driver has improved due to experience collected with the Kampf POC.

Next we are aiming to implement Modbus and OPC-UA protocols.

How would you assess the podling's maturity?

Please feel free to add your own commentary.

We have a mix of new participants and experienced Apache people involved. So far, the new participants have shown great willingness and success in adopting the Apache Way.

However, we still need to continue:

the on-boarding
increasing the diversity of the team
Also, will we need to decide and establish all the processes involved in
releasing software at Apache

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

XXXX-XX-XX

When were the last committers or PPMC members elected?

Signed-off-by:

- (plc4x) Greg Trasuk
Comments:
- (plc4x) Justin Mclean
Comments:
- (plc4x) Luciano Resende
Comments:
- (plc4x) Stefan Bodewig

Pulsar

Pulsar is a highly scalable, low latency messaging platform running on commodity hardware. It provides simple pub-sub semantics over topics, guaranteed at-least-once delivery of messages, automatic cursor management for subscribers, and cross-datacenter replication.

Pulsar has been incubating since 2017-06-01.

Two most important issues to address in the move towards graduation:

1. Grow the community with new Committers/PPMC members.
2. Complete the Podling name search tasks

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

None

How has the community developed since the last report?

The community added 6 new contributors that submitted pull-requests which were merged into master.

There has been a sharp increase in users approaching the team on the Slack channel with many questions on getting started, clarifications, troubleshooting. While developers use Slack for informal chatting, the predominant usage of Slack has been users support. We have created a tool to create daily email digests of the conversation and post it on dev@ and user@ lists, to comply with ASF policy of. We are also extracting the most recurrent questions/answer from Slack and plan to add an FAQ section on the website, together with improving documentation in the areas that seemed more difficult to users.

Project members from several companies have organized or participated in several meetups, presenting Pulsar's introductions, deep-dives and hands-on tutorial, including recorded podcasts. We have several scheduled talks on Pulsar at various conferences (such as Strata San Jose on March 8th).

How has the project developed since the last report?

22 authors have pushed 536 commits to master in the last 3 months.

The project has made the its third and fourth releases since joining the Apache Incubator (1.21.0-incubating on Dec 17th and 1.22.0-incubating on Mar 6th). Project members are actively working on next milestone, 2.0 release that will include several new features including:

- * Topic compaction
- * Redesigned type-safe API with schema support
- * Lightweight compute support

Overall, since December, 7 new PIPs (Pulsar Improvement Proposals) for major feature/changes, have been submitted to the wiki and discussed in the mailing list.

Since the last report the number of weekly-active-users on the Slack channel has increased from 27 to 53.

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

2017-12-13, 1.21.0-incubating
2018-03-06, 1.22.0-incubating

When were the last committers or PPMC members elected?

2018-01-19 - Sijie Guo

Signed-off-by:

- (pulsar) Dave Fisher
Comments: They have the release cycle down pretty well. Building community.
- (pulsar) Jim Jagielski
Comments: I would say that the project is still building community and doing so extremely well.
- (pulsar) P. Taylor Goetz
Comments: I would have checked the "Community Building" box, but the podling is doing very well.
- (pulsar) Francis Liu
Comments:

SAMOA

SAMOA provides a collection of distributed streaming algorithms for the most common data mining and machine learning tasks such as classification, clustering, and regression, as well as programming abstractions to develop new algorithms that run on top of distributed stream processing engines (DSPEs). It features a pluggable architecture that allows it to run on several DSPEs such as Apache Storm, Apache Flink, and Apache Samza.

SAMOA has been incubating since 2014-12-15.

Three most important issues to address in the move towards graduation:

1. Enlarge the contributing community
2. Have new companies and organizations using the Apache Samoa technology

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

None

How has the community developed since the last report?

Mailing list activity (December 2017 - February 2018):
* @dev: 23 messages

Jira issues backlog (December 2017 - February 2018):
* Created: 2
* Resolved: 1

How has the project developed since the last report?

- * Just elected two new members to the Apache Samoa PPMC
- * Planning a new release in the next month
- * Worked on consolidating input and output API, to work better with multiple types of data

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

2016-09-30

When were the last committers or PPMC members elected?

January 2018

Signed-off-by:

- (samoa) Alan Gates
Comments:
- (samoa) Ashutosh Chauhan
Comments:
- (samoa) Enis Soztutar
Comments:
- (samoa) Ted Dunning
Comments: Is this community really generating enough momentum to graduate?

ServiceComb

ServiceComb is a microservice framework that provides a set of tools and components to make development and deployment of cloud applications easier.

ServiceComb has been incubating since 2017-11-22.

Three most important issues to address in the move towards graduation:

1. IP clearance and License clean up
2. Community building
3. Create a first release

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

None

How has the community developed since the last report?

- * The community has been working hard to get the first release out, which will be service-center 1.0.0-m1, java-chassis 1.0.0-m1 and saga 0.1.0
- * service-center had three internal release votes, java-chassis and saga release is one the way.

How has the project developed since the last report(Feb 2018)?

Due to Chinese new year, lots of committer take the holiday

* Java Chassis merged with 10 PRs by 5 contributors.
* Service Center merged with 24 PRs by 4 contributors .
* Saga resolved merged with 6 PRs by 3 contributors.
* 48 mails sent by 14 people on the dev@ list
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

XXXX-XX-XX

When were the last committers or PPMC members elected?

NONE

Signed-off-by:

- (servicecomb) Roman Shaposhnik
Comments:
- (servicecomb) Jean-Baptiste Onofre
Comments:
- (servicecomb) Timothy Chen
Comments:

SkyWalking

Skywalking is an APM (application performance monitor), especially for microservice, Cloud Native and container-based architecture systems. Also known as a distributed tracing system. It provides an automatic way to instrument applications: no need to change any of the source code of the target application; and an collector with an very high efficiency streaming module.

SkyWalking has been incubating since 2017-12-08.

Three most important issues to address in the move towards graduation:

1. IP clearance.
3. First ASF release. (SkyWalking 5.0)
3. Further ASF culture and processes.
4. 5.x releases are stable for product, and have an open end user case, at least.

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

Looking for input on how to develop/release our plugins that rely on GPL libraries, is making those plugins optional good enough?

How has the community developed since the last report?

Improved understanding of the release process way of the Apache. And prepare for the first release.

A C# agent proposed by .NET community has started.
After it release, will make SkyWalking can support multi languages.
Some discussions about golang and Nodejs server are on going.

How has the project developed since the last report?

Code wise the project has good momentum.
There has been ~44 pull requests opened and accepted, and 103 commits,

by 7 contributors in the last month.

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

5.0.0-alpha is currently in progress. One attempt was made and put into the staging repository, only a minor issue blocked the test build announcement email going out.

When were the last committers or PPMC members elected?

Hongtao Gao (PPMC)
Sheng Wu (PPMC)
Shinn Zhang (PPMC)
Yongsheng Peng (PPMC)

Signed-off-by:

- (skywalking) Luke Han
Comments:
- (skywalking) Willem Ning Jiang
Comments:
- (skywalking) Mick Semb Wever
Comments:

Slider

Slider is a collection of tools and technologies to package, deploy, and manage long running applications on Apache Hadoop YARN clusters.

Slider has been incubating since 2014-04-29.

Most important issues to address in the move towards graduation:

Since new development on one of Slider's primary maven modules has moved to the hadoop-yarn-services-core module in Apache Hadoop, development of other Slider modules has also tailed off. The Slider community needs to decide whether we should retire the remaining Slider code or propose graduation.

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

No additional issues.

How has the community developed since the last report?

Mailing list and commit activity have continued at a low rate. We invited a new committer / PPMC member, Kyungwan Nam.

How has the project developed since the last report?

An improvement to allow Slider to work in multi-homed environments is in progress and we have fixed a couple of bugs related to certificate management and functional test failures when running on newer versions of Hadoop.

How would you assess the podling's maturity?
The podling is relatively mature, but activity is low.

- Initial setup
- Working towards first release

- Community building
- Nearing graduation
- Other: Discussing direction

Date of last release:

2017-03-23 slider-0.92.0-incubating

When were the last committers or PPMC members elected?

2018-02-21 New committer and PPMC member Kyungwan Nam

Signed-off-by:

(slider) Arun C Murthy

Comments:

(slider) Devaraj Das

Comments:

(slider) Jean-Baptiste Onofré

Comments:

(slider) Mahadev Konar

Comments:

(slider) Vinod Kumar Vavilapalli

Comments: Given the progress of development in hadoop-yarn-services, I think this community should start the retirement proceedings. The things to figure out when the retirement happens is the website redirect, past releases' bits and any outstanding apps that are not yet migrated.

Spot

Apache Spot is a platform for network telemetry built on an open data model and Apache Hadoop.

Spot has been incubating since 2016-09-23.

Three most important issues to address in the move towards graduation:

1. More activity in the User and Dev mail lists
2. Integrate Open Data Model on top of Spot modules
3. Develop a better release process

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

How has the community developed since the last report?

- A. more interaction from partners
- B. Seeing more interest and usage of Spot leading to more contributions in on the way

How has the project developed since the last report?

- A. More development around Open Data Model
- B. New data sources being integrated with ODM is maturing the structure
- C. Adding Kerberos support to the project
- D. Ingest Redesign

How would you assess the podling's maturity?

Please feel free to add your own commentary.

Initial setup

Working towards first release

Community building

Nearing graduation

Other:

Date of last release:

2017-09-08

When were the last committers or PPMC members elected?

2018-01-18

Signed-off-by:

[](spot) Jarek Jarcec Cecho

Comments:

[](spot) Brock Noland

Comments:

[](spot) Andrei Savu

Comments:

[X](spot) Uma Maheswara Rao G

Comments: Dev list discussions are low and community should give more attention to this point.

Superset

Superset is an enterprise-ready web application for data exploration, data visualization and dashboarding.

Superset has been incubating since 2017-05-21.

Three most important issues to address in the move towards graduation:

1. Plan and execute our first Apache release
2. Align on a long-term product roadmap with the broader Apache Superset community
3. Grow the community and enroll new committers

Any issues that the Incubator PMC or ASF Board might wish/need to be aware of?

* None

How has the community developed since the last report?

- * Organic growth of our Github contributors (211), forks (2,981), watchers (975) and stars (18,249)
- * Group of active committers meeting bi-weekly from Airbnb, Lyft and Twitter
- * Slack channel for Apache Superset at <https://apache-superset.slack.com/> has active growth and activity

How has the project developed since the last report?

- * A redesign of the Dashboarding view is now midway through completion
- * A redesign of the Explore view has just started
- * Deck.gl (<https://uber.github.io/deck.gl/#/>) has been integrated as a visualization type
- * A healthy, constant flow of bug fixes, quality improvements and new features, take a look at the project's Pulse on Github for more details

How does the podling rate their own maturity.

- [] Initial setup
- [X] Working towards first release
- [] Community building
- [] Nearing graduation
- [] Other:

Date of last release: No official release yet since being voted into Apache Incubation. (Planning for the first Apache release in Q2, 2018)

When were the last committers or PPMC members elected?

- * Grace Guo - PPMC & Committer (2017-10-29)
- * Chris Williams - PPMC & Committer (2017-10-20)
- * John Bodley - PPMC & Committer (2017-10-20)

Signed-off-by:

[X](superset) Ashutosh Chauhan

Comments:

[x](superset) Luke Han

Comments:

[X](superset) Jim Jagielski

Comments: Looking forward to seeing how the project handles the release process

Taverna

Taverna is a domain-independent suite of tools used to design and execute data-driven workflows.

Taverna has been incubating since 2014-10-20.

Three most important issues to address in the move towards graduation:

1. Re-engage PPMC towards community building
2. Release or Retire legacy git repositories
3. Graduate!

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

How has the community developed since the last report?

Large interest from Google Summer of Code students.
Multiple pull requests, many already merged.
Elected new PPMC member Sagar.

Email stats dev@taverna:

2017-12: 18
2018-01: 120
2018-02: 156

How has the project developed since the last report?

Taverna Server release, addressed many IP/license issues.

Active development, but focused mainly on the Android app.
Some challenges with maintaining legacy git repositories as they require different skills.

How would you assess the podling's maturity?
Please feel free to add your own commentary.

- Initial setup
- Working towards first release
- Community building
- Nearing graduation
- Other:

Date of last release:

2018-01-18

When were the last committers or PPMC members elected?

2018-02-26 (PPMC)

Signed-off-by:

(taverna) Andy Seaborne
Comments:

While there has been an uptick in development activity recently, and the contributor is a new PPMC member, the podling PPMC as a group is not moving towards graduation.

Reiterating my comments from December: I am worried that pushing through graduation will only result in the same situation as a TLP.

(taverna) Daniel J Debrunner

Comments:

[](taverna) Marlon Pierce

Comments:

[x](taverna) Stian Soiland-Reyes

Comments:

I have been quite impressed by the uptick since New Year, which shows how just a bit of PMC engagement can give lots of follow-on activity. I would hope Taverna can continue this move out of the "risk of retire" zone, but that requires more PMC members to chip in now and then.

[](taverna) Suresh Marru

Comments:

[](taverna) Suresh Srinivas

Comments:

IPMC/Shepherd notes:

johndament: the discrepancies between the mentors seems to be a concern. In general it seems like good communication flow.

Tephra

Tephra is a system for providing globally consistent transactions on top of Apache HBase and other storage engines.

Tephra has been incubating since 2016-03-07.

Two most important issues to address in the move towards graduation:

1. Improve community engagement
2. Increase adoption

Any issues that the Incubator PMC (IPMC) or ASF Board wish/need to be aware of?

- None at this time.

How has the community developed since the last report?

- 15 new JIRAs filed since the last report
- 1 external contributors submitted patches since the last report
- 1 external contributor created tickets in JIRA since the last report

How has the project developed since the last report?

- Working on 0.14.0-incubating release
- Adding support for HBase 2.0 (new major version of HBase)

How would you assess the podling's maturity?

Please feel free to add your own commentary.

[] Initial setup

[] Working towards first release

[x] Community building

[] Nearing graduation

[] Other:

Date of last release:

2017-09-21

When were the last committers or PPMC members elected?

- None since coming to incubation

Signed-off-by:

[](tephra) Alan Gates

Comments:

[](tephra) Andrew Purtell

Comments:

[x](tephra) James Taylor

Comments:

[](tephra) Lars Hofhansl

Comments: