April2020

NOTE that the content for this month report is in markdown format- please do not remove any formatting characters when adding your reports.

It also best to:

- Do not change existing formatting.
- Keep all lines under **76 characters** long.
- All content under the ### headings should be indented by **two spaces**. Do not use **tabs**.
- Please don't change the text in the headings or add new ones.
- Include a space after a bullet point or full stop on a numbered list.
- Use **[X]** (X and no spaces) to sign off reports.
- Do not include long URLs and use apache URL shortener https://s.apache.org.

Please make sure you use the current report and don't copy an old one, the headings do change from time to time.

A script will be run on this report before it is submitted to the board. If your lines are too long it may insert line breaks in unexpected places.

Reflow

```
fold -w 76 -s $1 | cat -s
```

Timeline

Wed April 01	Podling reports due by end of day
Sun April 05	Shepherd reviews due by end of day
Sun April 05	Summary due by end of day
Tue April 07	Mentor signoff due by end of day
Wed April 08	Report submitted to Board
Wed April 15	Board meeting

Shepherd Assignments

Dave Fisher	**Hivemall**
Dave Fisher	**TVM**
Drew Farris	**Flagon**
Drew Farris	**MXNet**
Justin Mclean	**Livy**
P. Taylor Goetz	**Gobblin**
P. Taylor Goetz	**Milagro**
P. Taylor Goetz	**NuttX**
Timothy Chen	**APISIX**
Timothy Chen	**Annotator**
Timothy Chen	**YuniKorn**

Incubator PMC report for April 2020

The Apache Incubator is the entry path into the ASF for projects and codebases wishing to become part of the Foundation's efforts. This monthly report is in markdown so that it's easier to read. If you are not viewing this in that format, it can be seen here:

https://cwiki.apache.org/confluence/display/INCUBATOR/April2020 There are presently 45 podlings incubating. In March, podlings executed 7 distinct releases. We added one new IPMC member, and there are a couple of outstanding requests, no IPMC members retired.

There was one requested IP clearance. There are four new podlings under discussion or VOTE; they are AgenisGraph, BlueMarlin, HBlock and Rainbow. No projects graduated or retired last month. At least one podling is heading towards graduation in the next few months, and ShardingSphere has a resolution to graduate. All projected reported this month which is a rarity, but one podling Gobblin failed to get sign off from it's mentors and will be asked to report again next month.

It's nice to see that due to the covid-19 situation world-wide that things are operating mostly as usual.

Three podlings MXNet, SDAP and Spot still need to sort out their roster and private mailing list subscriptions and look lite they need to be reminded again to correct this.

One IPMC member removed by the recent board proposal asked to join again and was added back to the IPMC roster.

There was a discussion on graduating Apache ShardingSphere to become a Top Level Project and the project corrected some minor branding and trademark issues.

Regarding ShardingSphere, there was a discussion "Fork me on Github" the outcome of which is that wording should not be used, and the link to GitHub be a no-follow one.

It was discovered that some podling download pages were not following policy (in minor ways). Also, there has been a recent change to use download. apache.org rather than using apache.org.dist for .sha and .asc links. Some podlings have fixed these issues. However, in most cases, podlings will fix this when they make a new release.

A number of podlings have also made releases but are missing download pages on their web site; this issue is currently unresolved, and the podlings need to be contacted.

The (reasonably frequent) topic on distributing binaries came up again, once again underlining the need to have a clear policy around this.

Community

New IPMC members:

- Steve Blackmon

People who left the IPMC:

- None

New Podlings

- None, but several under discussion.

Podlings that failed to report, expected next month

- None

Graduations

- none

The board has motions for the following:

- ShardingSphere

Releases

The following releases entered distribution during the month of March:

- ECharts 4.7.0
- Flagon useraleJS 2.1.0
- Hudi 0.5.2
- Nemo 0.2
- Pinot 0.3.0
- ShardingSphere 4.0.1

- Tuweni 1.0.0

IP Clearance

- DotPulsar

Legal / Trademarks

- No issues

Infrastructure

- No issues

Miscellaneous

- None

Table of Contents

Annotator

Annotator provides annotation enabling code for browsers, servers, and humans.

Annotator has been incubating since 2016-08-30.

Three most important unfinished issues to address before graduating:

1. Release initial versions
2. Add active contributors
3. Demonstrate good governance through voting on process improvements.

Are there any issues that the IPMC or ASF Board need to be aware of?

Not at this time.

How has the community developed since the last report?

We have had increased mentor activity and increased participation on our weekly calls which have both helped improve our momentum.

How has the project developed since the last report?

We walked through the process of cutting a release (0.1.0) and putting that release up for a vote. The first vote attempt failed due to a process mistake we sent it to `general@` before we passed it to `dev@`. We then attempted a second vote which passed at the project level, but failed when sent to the Incubator list. However, we received valuable feedback from Justin Mclean which we are now acting upon. We plan to attempt another release and vote early this 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:

None yet (due to issues with release process and/or voting), but hopefully early this month.

When were the last committers or PPMC members elected?

No new committers nor PPMC members have been added since the last report.

Have your mentors been helpful and responsive?

Nick Kew has been more involved over email and has also been in attendance to at least one of the weekly community calls. We have greatly appreciated the involvement and look forward to more!

Signed-off-by:

- (annotator) Nick Kew
  Comments:
- (annotator) Tommaso Teofili
  Comments:

IPMC/Shepherd notes:

APISIX

APISIX is a cloud-native microservices API gateway, delivering the ultimate performance, security, open source and scalable platform for all your APIs and microservices.

APISIX is based on Nginx and etcd. Compared with traditional API gateways, APISIX has dynamic routing and plug-in hot loading, which is especially suitable for API management under micro-service system.

APISIX has been incubating since 2019-10-17.

Three most important unfinished issues to address before graduating:

1. More Apache Releases and more committers act as release manager to release a version.
2. More committers and PPMC members.
3. Branding issues in the documentation, code, website, etc.

Are there any issues that the IPMC or ASF Board need to be aware of?

None

How has the community developed since the last report?

- we released three Apache releases (APISIX 1.0, APISIX 1.1 and apisix-dashboard 1.0). the APISIX 1.0 is import for us with a lot enhancement in the core of Apache APISIX, also fixed many bugs come from users's production enviroment. more and more company choose using Apache APISIX and feedback experience to the community and we're happy to see that feedback. 4 Apache releases by 4 different release managers till now.
- We have 18 committers and 70 contributors (including 18 committers) now. since the last report, 5 commiters was elected (including one core contributor on Openresty and the first committer in Europe @sshniro who introduced Apache APISIX into the EU's industrial Internet Project and made a lot of optimization and improvement , showing the diversity of the community). we also elected first non-initial PPMC member @lilien1010.
- We strengthen interaction/cooperation with other Apache project. E.g. Apache skywalking. we also elected @Sheng Wu (from the PMC of Apache skywalking) as a member of our PPMC. then he can help us a lot on community building.
- the official docker image library migrated to Apache.
- 4 committers of APISIX signed up as mentor of Google summer of code, and add some tasks for it

How has the project developed since the last report?

The project has been quite health, with more than 255 pull requests, 120 of them have being merged since the last report. on the mail list, 310 emails sent by 35 people, divided into 61 topics since the last report. Compare to the last report, the number of pull requests have 779% increase and the number of merged requests have 380% increase. These pull requests are authored by a diverse set of contributors. In order to guide more users to get started, we have added a quick start guide and enriched more documents. Continue to remind people to communicate via the Apache APISIX mailing list.

During the peroidthe Pull Request is mainly divided three aspects:

- Fixing Apache APISIX bug.
- add new feature and strengthen the stability of the code.
- enrich more documents.

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:

Fri Feb 24 2020 (1.1)

When were the last committers or PPMC members elected?

- At Mar 15 2020 PPMC members elected a new PPMC member @Sheng Wu who help us a lot on the mail list. he also share the experience on the apache community.
- At Mar 24 2020 PPMC members elected a new commiter @Akayeshmantha (from the PMC of Apache Juneau) who contributed a lot for some new features.

Have your mentors been helpful and responsive?

Mentors are responsive and helpful. Things tend to be on the right way.

Is the PPMC managing the podling's brand / trademarks?

Yes, We keep tracking podling's brand / trademarks.

Signed-off-by:

- (apisix) Willem Ning Jiang
  Comments: It's good to see APISIX brings more and more PPMC aboard.
- (apisix) Justin Mclean
  Comments: Good progress here and nice report.
- (apisix) Kevin Ratnasekera
  Comments:
- (apisix) Von Gosling
  Comments:

IPMC/Shepherd notes:

DLab

DLab is a platform for creating self-service, exploratory data science environments in the cloud using best-of-breed data science tools.

DLab has been incubating since 2018-08-20.

Three most important unfinished issues to address before graduating:

1. Come up with a new name for DLab.
2. Extend the amount of committers.
3. The team is working towards the release 2.3 and is going to do this release in the first half of April.

Are there any issues that the IPMC or ASF Board need to be aware of?

No issues.

How has the community developed since the last report?

Leonid Frolov has been added as a new committer.

How has the project developed since the last report?

The team is working towards the release v.2.3 which contains a lot of new improvements. And the main feature of this release is multi-Cloud orchestration for AWS, Azure and GCP. Now, a single DLab instance can connect to all Clouds, by means of respective set of API's, deployed on cloud endpoints. Release 2.3 is planned for April.

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: Working towards next release

Date of last release:

2019-10-12

When were the last committers or PPMC members elected?

The last committer was elected on February 2, 2020.

Have your mentors been helpful and responsive?

Yes our mentors are super helpful.

Is the PPMC managing the podling's brand / trademarks?

We have a couple of naming options for the product. We agreed we need a name for the umbrella of our accelerators, rather than providing all products, implemented by our teams with different names. Process of approving of the new name for the suite of the products is undergoing an internal review and approval process.

Signed-off-by:

- (dlab) P. Taylor Goetz
  Comments:
- (dlab) Henry Saputra
  Comments:
- (dlab) Konstantin I Boudnik
  Comments:
- (dlab) Furkan
  Comments:

IPMC/Shepherd notes:

DolphinScheduler

Dolphin Scheduler is a distributed and easy-to-expand visual DAG workflow scheduling system dedicated to solving the complex dependencies in data processing, making the scheduling system out of the box for data processing.

Dolphin Scheduler has been incubating since 2019-8-29.

Three most important unfinished issues to address before graduating:

1. Develop more committers and contributors.
2. Make the architecture easily to expand for plug-ins.
3. Make intallation more easily to use.

Are there any issues that the IPMC or ASF Board need to be aware of?

None

How has the community developed since the last report?

1. Github code contributors grew from 62 to 71.
2. More articles were written by users and contributors initiatively.

How has the project developed since the last report?

1. Support Apache Ambari install and DataX data ETL.
2. Refactor worker architecture for better performance and augmentability.
3. Add resource management tree structure.

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:

2020-2-24

When were the last committers or PPMC members elected?

2020-1-24

Have your mentors been helpful and responsive?

Yes, our mentors help a lot on our progress on restruction.

Is the PPMC managing the podling's brand / trademarks?

Yes, We keep tracking podling's brand / trademarks.

Signed-off-by:

- (dolphinscheduler) Sheng Wu
  Comments:
- (dolphinscheduler) ShaoFeng Shi
  Comments:
- (dolphinscheduler) Liang Chen
  Comments:
- (dolphinscheduler) Furkan
  Comments:
- (dolphinscheduler) Kevin Ratnasekera
  Comments:

IPMC/Shepherd notes:

Flagon

Flagon is a software tool usability testing platform

Flagon has been incubating since 2016-07-13.

Three most important unfinished issues to address before graduating:

1. Grow the Flagon Committer/Contributor/Community Base
2. Refine release processes for core analytic product (Distill)
3. Finalize (through vote) Flagon logo, get marketing approvals (e.g swag)

Are there any issues that the IPMC or ASF Board need to be aware of?

- None at this time.
- Flagon will likely draft and vote on a graduation resolution this year.

How has the community developed since the last report?

1. Continued improving release processes and code base
2. Continued to generate a wide user base
3. Discussing collaborations for R&D applications
4. New potential committers are identified and will be introduced soon

How has the project developed since the last report?

1. Project maturity roadmaps & release plans are maintained
2. Sub-projects are being migrated to Git Issues
3. Core product source code is well maintained
4. Analytical products are being refactored to grow user base
5. Continued attention and improvement in Apache Process

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:

2020-03-17

When were the last committers or PPMC members elected?

- Furkan (Mentor) 2019-07-24
- Tim Allison (Mentor) 2019-07-17
- Arthi Vezhavendan (PPMC) 2017-01-24

Have your mentors been helpful and responsive?

- Our mentors have been very supportive and responsive.

Is the PPMC managing the podling's brand / trademarks?

- To date, there are no known issues of 3rd Party misuse of brand
- 'Flagon' was cleared through the Apache PODLINGNAMESEARCH workflow.
- 'Flagon' branded graphics will conform to Apache's Trademark and Branding policies.

Signed-off-by:

- (flagon) Lewis John McGibbney
  Comments:
- (flagon) David Meikle
  Comments:
- (flagon) Tim Allison
  Comments:
- (flagon) Furkan Kamaci
  Comments:

IPMC/Shepherd notes:

Gobblin

Gobblin is a distributed data integration framework that simplifies common aspects of big data integration such as data ingestion, replication, organization and lifecycle management for both streaming and batch data ecosystems.

Gobblin has been incubating since 2017-02-23.

Three most important unfinished issues to address before graduating:

1. Revisit Apache Maturity Model assessment. [In progress since last report]
2. Complete house-keeping tasks like revamp website, podling namesearch. [In progress since last report]

Are there any issues that the IPMC or ASF Board need to be aware of?

No.

How has the community developed since the last report?

- New committers Lei Sun (lesun) and Kuai Yu (kuyu).
- Email stats since last report: user@gobblin.incubator.apache.org : 9 dev@gobblin.incubator.apache.org : 1689
- There have been 76 Commits since last report: git log --format='%ci' | grep -cE '((2020-0(1|2|3)))'
- 43 ie. 56% of those commits were by non-committers: git log --format='%ae %ci' | grep -E '((2020-0(1|2|3)))' | cut -d ' ' -f 1 | sort | uniq -c | sort -n

How has the project developed since the last report?

- Handle orphaned Yarn containers in Gobblin-on-Yarn clusters
- Track and report histogram of observed lag from Gobblin Kafka pipeline
- Refresh flowgraph when templates are modified
- HighLevelConsumer re-design by removing references to ConsumerConnector and KafkaStream
- Add SFTP DataNode type in Gobblin-as-a-Service
- Optimize unnecessary RPCs in distcp-ng
- Supporting Avro logical type recognition in Avro-to-ORC transformation
- Support for direct Avro and Protobuf formats through Parquet writer

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:

2018-12-09

When were the last committers or PPMC members elected?

Kuai Yu in January 2020 and Lei Sun in February 2020

Have your mentors been helpful and responsive?

Yes.

Is the PPMC managing the podling's brand / trademarks?

Yes, but we have to perform podling namesearch.

Signed-off-by:

- (gobblin) Jean-Baptiste Onofre
  Comments:
- (gobblin) Olivier Lamy
  Comments:
- (gobblin) Jim Jagielski
  Comments:

IPMC/Shepherd notes:

Hivemall

Hivemall is a library for machine learning implemented as Hive UDFs/UDAFs/UDTFs.

Hivemall has been incubating since 2016-09-13.

Three most important unfinished issues to address before graduating:

1. Community growth (committers and users)
2. One or more Apache Releases as an Incubator project

Are there any issues that the IPMC or ASF Board need to be aware of?

PPMC need to consider exit approaches (retiring or graduate as Hive subproject).

How has the community developed since the last report?

- No enough progress since the last report due to changes in PPMC member job roles.
- Makoto is not active since he is taking paternity leave.
- Github watchers/stars are gradually increasing: 252 stars as of April 1 (was 243 on Dec 2)

How has the project developed since the last report?

The development [has been calmed down) since the last Apache release on Dec 2019.

Created 5 minor tickets and resolved 3 issues.

Need to set some major target with new major features to activate the development. Also, we need to discuss about exit strategy of the project with PPMCs.

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:

2019-12-19

When were the last committers or PPMC members elected?

Elected Jerome Banks as a committer on April 2, 2018.

Have your mentors been helpful and responsive?

Koji is active at mentoring.

Is the PPMC managing the podling's brand / trademarks?

Yes, we keep tracking podling's brand / trademarks. Finished [polding name search] (https://issues.apache.org/jira/browse/PODLINGNAMESEARCH-176).

Signed-off-by:

- (hivemall) Daniel Dai
  Comments:
- (hivemall) Koji Sekiguchi
  Comments:

IPMC/Shepherd notes:

Iceberg

Iceberg is a table format for large, slow-moving tabular data.

Iceberg has been incubating since 2018-11-16.

Three most important unfinished issues to address before graduating:

1. Grow the Iceberg community 2. Add more committers and PPMC members

Are there any issues that the IPMC or ASF Board need to be aware of?

No issues.

How has the community developed since the last report?

 - The community added a committer and PPMC member, Ratandeep Ratti. Ratandeep is the 4th new PPMC member. - In the 3 months since the last report, 76 pull requests were merged, for an average of 25 per month so the contribution rate is still active and healthy - The community had a video sync with about 20 attendees. These will be held about every 3 weeks at alternating times so that contributors in Europe and Asia can attend - The community is working toward an 0.8.0 release in mid-April

How has the project developed since the last report?

 - The community is building support for the upcoming Spark 3.0 release and working on moving this to master - More Parquet vectorization PRs have been merged, showing significant progress - A contributor has built support for Spark streaming, which is under review - Members of the Apache Flink community have been discussing integration and have contributed an early Flink sink - Support for ORC files is nearly done. Schema evolution, type promotion, and support for generics have been recently added - Support for cherry-picking append snapshots was added - Added new metadata table

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
 - [X] Nearing graduation
 - [ ] Other:

Date of last release:

 - 0.7.0-incubating was released 25 October 2019

When were the last committers or PPMC members elected?

 - Ratandeep Ratti was added 30 August 2019

Have your mentors been helpful and responsive?

Yes.

Is the PPMC managing the podling's brand / trademarks?

Yes, the podling is managing the brand and is not aware of any issues. The project name has been approved.

Signed-off-by:

 - [X] (iceberg) Ryan Blue   Comments: - [ ] (iceberg) Julien Le Dem   Comments: - [X] (iceberg) Owen O'Malley   Comments: - [ ] (iceberg) James Taylor   Comments: - [X] (iceberg) Carl Steinbach   Comments:

Milagro

Milagro is core security infrastructure and crypto libraries for decentralized networks and distributed systems.

Milagro has been incubating since 2015-12-21.

Three most important unfinished issues to address before graduating:

1. Continue to build relevant and useful crypto libraries and applications for decentralized networks in order to grow the ecosystem of users and contributors to the project.
2. Continue to improve compliance with the Apache Way. In particular to update the Milagro website and other project sites (e.g. Whimsy) in accordance with Apache policies.
3. Further releases to increase the scope of the Milagro project, extend the capability of existing releases and to demonstrate improved compliance with the Apache Way.

Are there any issues that the IPMC or ASF Board need to be aware of?

No significant issues, however, due to recent time constraints, several administrative aspects of the project have not been dealt with (updating Whimsy, countersigning code signing keys, checking download links, confirming brand/trademark compliance etc.)

How has the community developed since the last report?

Kirk Baird accepted as a new committer and he's now contributing to the Rust version of the Milagro Crypto Library

How has the project developed since the last report?

A second official Apache release of the Crypto-C library (2.0.1) was released in February

A new "Multi Party Computation" (MPC) library has been accepted from Qredo Ltd into the Apache Milagro project. The new repository is: https://github.com/apache/incubator-milagro-MPC The code is being optimised, bug fixed, documented and tested (including a proposed external code review by the NCC Group) in preparation for its first official Apache release.

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:

2020-2-10

When were the last committers or PPMC members elected?

February 2020

Have your mentors been helpful and responsive?

No issues.

Is the PPMC managing the podling's brand / trademarks?

No known issues, but further investigation is still required by the Milagro community.

Signed-off-by:

- (milagro) Nick Kew
  Comments:
- (milagro) Jean-Frederic Clere
  Comments:

IPMC/Shepherd notes:

MXNet

A Flexible and Efficient Library for Deep Learning

MXNet has been incubating since 2017-01-23.

Three most important unfinished issues to address before graduating:

1. Address past release issues. Successfully and smoothly make releases

- ONGOING.

1. Improve development process and tooling to help reduce the overhead of releases

- ONGOING.

Are there any issues that the IPMC or ASF Board need to be aware of?

1. MXNet 2.0 has started (10 projects completed): https://github.com/apache/incubator-mxnet/projects/18 RFC: https://github.com/apache/incubator-mxnet/issues/16167
2. There have been stability issues and high cost associated with the CI system due to complexity and high load.
   - We are suffering from high failure rate in CI due to technical debts such as flaky tests.
   - Efforts on reducing waste in time and cost on CI: https://github.com/apache/incubator-mxnet/projects/19

- We intend to update our toolchain and improve engineering practices to address technical debts and improve the development experiences.
- We want to improve automation and address licensing issues to reduce release overhead.
- We seek experiences from other projects with extensive C/C++ development on validating for a diverse set of platforms, and experiences on reducing the test complexity and runtime. We appreciate any lessons other projects can share in these aspects.

How has the community developed since the last report?

- The number of GitHub contributors increased to currently 781 (2019-03-28; +2.4% since last report)
- Active discussions on user forums

  - https://discuss.mxnet.io/ (English, 2.5K registered users (+8.7%) and 7.7K posts (+4.0%))
  - https://discuss.gluon.ai/ (Chinese, 8.1K registered users (+6.9%) and 21.9K posts(+1.3% since last report))
- Active blogs and social media presence

  - Medium (https://medium.com/apache-mxnet) w/ 1.8k followers (+5.9%)
  - Twitter account (https://twitter.com/ApacheMXNet) w/ 2.4k followers (+5.4%)
- Active video channels

  - YouTube channel (https://www.youtube.com/apachemxnet) w/ 1.04k subscriber (+9.6% since last report)
  - Chinese YouTube channel (https://www.youtube.com/channel/UCjeLwTKPMlDt2segkZzw2ZQ) w/ 5.71k subscribers (+5.7%)
  - (in China) bilibili space (https://space.bilibili.com/209599371) w/ 22k subscriber (+4.8% since last report)
- Highlights in MXNet ecosystem

  - Dive into Deep Learning has 50.5K 28-day active users, and has attracted 20.7K stars & 230+ contributors on GitHub. It has been adopted as a textbook or reference book by 70+ universities from 21 countries, such as MIT, UC Berkeley, CMU, UPenn, IIT Bombay, and NUS.
  - GluonCV v0.6.0 release (https://github.com/dmlc/gluon-cv/releases/tag/v0.6.0)
  - GluonNLP v0.9.1 release (https://github.com/dmlc/gluon-nlp/releases/tag/v0.9.1)
  - GluonTS v0.5.0 release (https://github.com/awslabs/gluon-ts/releases/tag/v0.5.0)
  - MXNet Model Server v1.1.0 release (https://github.com/awslabs/mxnet-model-server/releases/tag/v1.1.0)
  - DeepInsight (https://github.com/deepinsight/insightface)
  - Sockeye (https://github.com/awslabs/sockeye)

How has the project developed since the last report?

1. 1.6.0 was released: https://github.com/apache/incubator-mxnet/releases/tag/1.6.0 with over 830+ patches of new features, improvements, and fixes.
2. 2.0 project: https://github.com/apache/incubator-mxnet/projects/18
3. Github statistics of last month:

- Feb 28, 2019 – March 28, 2019: Excluding merges, 40 authors have pushed 75 commits to master and 78 commits to all branches. On master, 404 files have changed and there have been 17,944 additions and 6,344 deletions.

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:

2020-02-20

When were the last committers or PPMC members elected?

2020-03-02

Have your mentors been helpful and responsive?

Yes, mentors have been responsive and helpful as usual

Signed-off-by:

- (mxnet) Henri Yandell
  Comments:
- (mxnet) Markus Weimer
  Comments:
- (mxnet) Michael Wall
  Comments:

- (mxnet) Bob Paulin
  Comments:
- (mxnet) Jason Dai
  Comments:

IPMC/Shepherd notes:

NLPCraft

A Java API to convert natural language into actions.

NLPCraft has been incubating since 2020-02-13.

Three most important unfinished issues to address before graduating:

1. Finish migration to Apache process. DONE
2. Grow an active and healthy community around Apache NLPCraft product. ONGOING
3. Have a stable release schedule and 3 successful product releases. ONGOING

Are there any issues that the IPMC or ASF Board need to be aware of?

No open issues to make IPMC/ASF board aware of.

How has the community developed since the last report?

No community development as we are in the midst of infra migration trying to get the 1st ASF release out.

How has the project developed since the last report?

In the first 30 days the project has developed in the following ways:

- Project infra bootstrap is complete.
- All three repos have been migrated to ASF infra.
- GitHub Issues have been migrated to ASF JIRA.
- All ICLAs have been filed.
- All new committers accounts are created
- All code migration is completed & all work on the project is happening on ASF infra & using ASF way.
- NLPCraft 0.5.0 release voting is underway.

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?

2020-02-13

Have your mentors been helpful and responsive?

Yes, mentors have been responsive and helpful as usual

Signed-off-by:

- (wave) Dave Fisher
  Comments:
- (evansye) Evans Ye
  Comments:
- (kamaci) Furkan Kamaci
  Comments:
- (cos) Konstantin I Boudnik
  Comments:

NuttX

NuttX is a mature, real-time embedded operating system (RTOS).

NuttX has been incubating since 2019-12-09.

Three most important unfinished issues to address before graduating:

1. Clear any potential infringing use of the NuttX trademark
2. Determine the form and location of NuttX releases
3. Make the first release under Apache

Are there any issues that the IPMC or ASF Board need to be aware of?

None

How has the community developed since the last report?

- We have extended invitations to two new committers.
- One of the new invited committers, Yamamoto Takashi, has accepted, filed an ICLA with the ASF, and has been added to the roster successfully.
- The other new invited committer has accepted but is still currently undergoing the ICLA and account creation process.
- We continue to see new contributors to the project through GitHub.
- Most communications have moved from old venues to dev@nuttx.apache.org. Currently this list is the primary home of all development discussions and users questions. Some users continue to post questions to the old Google Group but we let them know about the move, so as to consolidate the project in one place.
- GitHub's PRs and Issues also have their own discussions.

How has the project developed since the last report?

- Regarding making our first release as Apache NuttX (Incubating), the community has agreed on a branch date (April 6th) and a tentative release date of end of April. Furthermore, we have agreed to reinstate the bimonthly releases that NuttX was making prior to becoming a Podling, subsequent to this first release.
- One of our PPMC members, Brennan Ashton, has volunteered to be Release Manager (RM) for this first release, provided that we make progress on licensing. To that end, several community members have invested considerable time with Fossology to qualify license headers of various files. As we have nearly 90,000 files in our repository, we expect this work to continue for quite some time, but the goal is to make additional progress at each release.
- The nightly build is up and running: https://s.apache.org/wnv2u Our Continuous Integration (CI) system continues to receive various tweaks and fixes. Currently, our automated nightly tests are showing various failures but this is gradually improving.
- The community continues to collaborate on various technical improvements, bug fixes, and new architectures. Contributions are flowing regularly as Pull Requests (PRs) in GitHub and as patches emailed to the dev list.

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:

Still working towards making the first Apache release.

When were the last committers or PPMC members elected?

Last elected PPMC: 2020-01-10
Last elected Committers: 2020-03-27

Have your mentors been helpful and responsive?

Mentors are helpful and responsive.

Is the PPMC managing the podling's brand / trademarks?

Some concerns and actions regarding podling's brand were noted in
the past reports, however, trademarks issues will be dealt with when
graduation draws near.

Signed-off-by:

- (nuttx) Junping Du
  Comments:
- (nuttx) Justin Mclean
  Comments: Nice detailed report, good to see progress.
- (nuttx) Mohammad Asif Siddiqui
  Comments:
- (nuttx) Flavio Paiva Junqueira
  Comments:

IPMC/Shepherd notes:

PonyMail

Pony Mail is a mail-archiving, archive viewing, and interaction service, that can be integrated with many email platforms.

Annotator has been incubating since 2016-05-27.

Three most important unfinished issues to address before graduating:

1. Grow community
2. Work on release scheduled

Are there any issues that the IPMC or ASF Board need to be aware of?

No Answer

How has the community developed since the last report?

The project is discussing graduating from the incubator. Feedback is positive, and we are drafting a resolution to the fact.

How has the project developed since the last report?

See above.

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:

2019-04-20

When were the last committers or PPMC members elected?

Sebastian Bazley was added as committer on 2017-06-10

Have your mentors been helpful and responsive?

No Answer

Is the PPMC managing the podling's brand / trademarks?

All good here.

Signed-off-by:

- (ponymail) Sharan Foga
  Comments: Good to see the project starting the graduation process. Increasing the community especially additional developers is challenging, but as a key tool within the ASF, there is a standard user base that may simply need communication and engagement to become involved.
- (ponymail) John D Ament
  Comments:

IPMC/Shepherd notes:

Teaclave

Teaclave is a universal secure computing platform.

Teaclave has been incubating since 2019-08-20.

Three most important unfinished issues to address before graduating:

1. Improving project structure and documentation
2. Grow the community (committers, contributors, users)
3. Publish Apache release

Are there any issues that the IPMC or ASF Board need to be aware of?

No.

How has the community developed since the last report?

- Since last report, one external contributor has became our regular contributor.
- Compared to the last report, we have seen more pull request from external contributors.
- We received emails from some companies which are interested in the project and willing to make some contributions for the secure computing community.
- Since we are mainly working on GitHub, with the help of the INFRA team, we can sync the notifications of GitHub with our mailing list.

How has the project developed since the last report?

- Since last report, the whole project has been refactored to be more functional, as well as readable and approachable for new contributors.
- We have rewrote the framework for implementing enclave services. Also, we have redesigned current services into seven core services including access control, authentication, execution, frontend, management, scheduler, and storage service. Communication protocols between services are defined in protobuf.
- RPC between services has been redesigned to supported TLS-based attestation.
- We have added DCAP attestation algorithm in the platform so that people can deploy the system in environments without Intel's attestation service.
- Communication between app and enclave has been also redesigned with better APIs.
- All updates is currently in the `develop` branch. We plan to merge into `master` when main refactoring is done.

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?

We haven't started new committers or PPMC members elections yet. Currently, our work focus on improving the design and documents to make the project more approachable for newcomers.

Have your mentors been helpful and responsive?

Yes, our mentors help use to resolve the mailing list moderator issues.

Is the PPMC managing the podling's brand / trademarks?

We don't find any 3rd parties incorrectly using the podling's name and brand. The VP, Brand has approved the project name. (PODLINGNAMESEARCH-175)

Signed-off-by:

- (teaclave) Felix Cheung
  Comments:
- (teaclave) Furkan Kamaci
  Comments:
- (teaclave) Jianyong Dai
  Comments:
- (teaclave) Luciano Resende
  Comments:
- (teaclave) Matt Sicker
  Comments:
- (teaclave) Zhijie Shen
  Comments:

IPMC/Shepherd notes:

Hudi

Hudi provides atomic upserts and incremental data streams on Big Data

Hudi has been incubating since 2019-01-17.

Three most important unfinished issues to address before graduating:

1. Project is ready to graduate from incubator.

Are there any issues that the IPMC or ASF Board need to be aware of?

None

How has the community developed since the last report?

1. 683 conversations on dev ML across 130 topics [1]
2. 75 participants during this period

How has the project developed since the last report?

1. ~180 Commits in gitbox [2]
2. ~260 issues opened on Jira [3]. ~140 issues resolved in Jira [4]
3. Hudi 0.5.1 released on Jan 31, 2020
4. Hudi 0.5.2 released on March 26, 2020
5. Work in progress for Hudi 0.6.0 planned for Apr 2020.
6. 2 new committers - Sivabalan Narayanan, Lamber-ken
7. 3 new PPMCs - Leesf, Vino Yang, Bhavani Sudha Saktheeswaran
8. Completed the Apache Maturity Matrix for the project [5]
9. Apache Hudi talk at Hadoop Summit Bangalore [6]
10. Apache Hudi & Apache Kylin Online Meetup, China [7] [8]
11. Steve Blackmon was added as a mentor on April 3, 2020

[1] https://lists.apache.org/trends.html?dev@hudi.apache.org:lte=3M
[2] git log --since="2019-12-25" --no-merges | grep -e 'commit
[a-zA-Z0-9]*' | wc -l

[3] project = HUDI AND created >= 2019-12-25 AND created <=now()
[4] project = HUDI AND status = Closed AND status changed to Closed
DURING ("2019/12/25",now())
[5] https://cwiki.apache.org/confluence/display/HUDI/Apache+Hudi
+Maturity+Matrix
[6] https://www.slideshare.net/SyedKather/building-robust-cdc-
pipeline-with-apache-hudi-and-debezium
[7] https://drive.google.com/open?id=1dmH2kWJF69PNdifPp37QBgjivOHaSLDn
[8] https://drive.google.com/open?id=1Pk_WdFxfEZxMMfAOn0R8-m3ALkcN6G9e

How would you assess the podling's maturity?

Please feel free to add your own commentary.

1. The project now has a diverse developer and user community, and excellent community traction.
2. The project's committers and PPMC members are drawn from diverse places - Tencent, Uber, Confluent, Snowflake, Lyft, Shopify, Double Verify.
3. Apache Hudi is being used across various industries for creating data lakes and also for managing Machine Learning feature stores.
   - AWS, Alibaba, Uber, Tencent, Kyligence, EMIS Health, Tathastu.ai, Logical Clocks

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

Date of last release:

2020-03-26 Apache Hudi-incubating 0.5.2 Release 2020-01-31 Apache Hudi-incubating 0.5.1 Release

When were the last committers or PPMC members elected?

Sivabalan Narayanan was made committer on Feb 15, 2020 Vino Yang and Leesf were added to PPMC on Feb 15, 2020 Bhavani Sudha was added to PPMC on April 1, 2020 Lamber-ken was made a committer on March 31, 2020

Have your mentors been helpful and responsive?

Yes, very helpful

Is the PPMC managing the podling's brand / trademarks?

Yes.

Signed-off-by:

- (hudi) Suneel Marthi
  Comments: The project is ready to graduate incubator.
- (hudi) Thomas Weise
  Comments: Ready for graduation.
- (hudi) Luciano Resende
  Comments:
- (hudi) Kishore Gopalakrishnan
  Comments:
- (hudi) Steve Blackmon
  Comments:

IPMC/Shepherd notes:

TubeMQ

TubeMQ is a distributed messaging queue (MQ) system. TubeMQ has been incubating since 2019-11-03.

Three most important unfinished issues to address before graduating:

1. Launch the first Apache release.
2. Grow community
3. Make development document more easily to read

Are there any issues that the IPMC or ASF Board need to be aware of?

None

How has the community developed since the last report?

We are applying TubeMQ to the actual environment, at this stage we have discovered and fixed some bugs; at the same time, we are learning and preparing for the first release. It is expected that in the next stage we will release the first release

How has the project developed since the last report?

Near the first Apache release launch.

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

When were the last committers or PPMC members elected?

Aloys Zhang was added as committer on 2020-02-20

Have your mentors been helpful and responsive?

Yes.

Is the PPMC managing the podling's brand / trademarks?

Yes, all good here.

Signed-off-by:

- (tubemq) Junping Du
  Comments: Better to be more active for community activities.
- (tubemq) Justin Mclean
  Comments: Looking froward to the first release.
- (tubemq) Sijie Guo
  Comments:
- (tubemq) Zhijie Shen
  Comments:
- (tubemq) Jean-Baptiste Onofre
  Comments:

IPMC/Shepherd notes:

TVM

TVM is a full stack open deep learning compiler stack for CPUs, GPUs, and specialized accelerators. It aims to close the gap between the productivity-focused deep learning frameworks, and the performance- or efficiency- oriented hardware backends.

TVM has been incubating since 2019-03-06.

Three most important unfinished issues to address before graduating:

1. Keep growing the community
2. Improve documentations

Are there any issues that the IPMC or ASF Board need to be aware of?

no

How has the community developed since the last report?

TVM community has welcomed two new committers/PPMC members since last report. There are also on-going new committer nominations. The community is active and vibrate, with wide collaborations from many contributors. The total number of contributors has grown to 343.

The community also actively worked on items under the guide of the Apache maturity model

https://docs.google.com/document/d/18nyAH-fcptVezAxPQe6H3FeTKPRkujOp1tc1Y RSPLok/edit?usp=sharing

How has the project developed since the last report?

A lot of improvements have been made. Including major improvements to the unified IR and Pytorch support.

See also our monthly reports for detailed improvements

- Jan https://discuss.tvm.ai/t/tvm-monthly-january-2020/5589
- Feb https://discuss.tvm.ai/t/tvm-monthly-february-2020/5935
- Mar https://discuss.tvm.ai/t/tvm-monthly-march-2020/6199

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:

2019-12-1

When were the last committers or PPMC members elected?

Feb 20 2020

Have your mentors been helpful and responsive?

Our mentors are super helpful.

Is the PPMC managing the podling's brand / trademarks?

Yes, we have completed the name search.

Signed-off-by:

- (tvm) Byung-Gon Chun
  Comments:
- (tvm) Sebastian Schelter
  Comments:
- (tvm) Henry Saputra
  Comments:
- (tvm) Timothy Chen
  Comments:
- (tvm) Furkan Kamaci
  Comments:
- (tvm) Tianqi Chen
  Comments:
- (tvm) Markus Weimer

IPMC/Shepherd notes:

Weex

Weex is a framework for building Mobile cross-platform high performance UI. Weex has been incubating since 2016-11-30.

Three most important unfinished issues to address before graduating:

1. [Branding issues] (https://cwiki.apache.org/confluence/display/WEEX/Branding+issues). There are about 10 git repos violating the trademark of Apache Weex, together with their NPM/Maven artifact.

2. [Community diversity] (https://cwiki.apache.org/confluence/display/WEEX/Communtiy+diversity). Apache Weex needs more PPMCs and committers from community, no employees from a single company shall have majority vote in PPMC and committer.

Are there any issues that the IPMC or ASF Board need to be aware of?

No

How has the community developed since the last report?

NO

How has the project developed since the last report?

- We have 14 incoming pull request, and 8 of them are merged.
- We have 5 threads in Weex mailing list .
- We have solved 21 Github issues.

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:

2019-10-23

When were the last committers or PPMC members elected?

2019-12-05

Have your mentors been helpful and responsive?

Yes, they are very helpful.

Is the PPMC managing the podling's brand / trademarks?

We are collecting a list of [branding issues], (https://cwiki.apache.org/confluence/display/WEEX/Branding+issues), and we shall fix the problem one by one.

Has the VP, Brand approved the project name?

No yet. We have not done Podling name search.

Signed-off-by:

- (weex) Willem Ning Jiang
  Comments:
- (weex) Myrle Krantz
  Comments:
- (weex) Jan Piotrowski
  Comments:

IPMC/Shepherd notes:

YuniKorn

Apache YuniKorn (incubating) is a standalone resource scheduler responsible for scheduling batch jobs and long-running services on large scale distributed systems running in on-premises environments as well as different public clouds.

Yunikorn has been incubating since: 2020-01-21

Three most important unfinished issues to address before graduating:

- Gain more contributors and active committers.

- Launch the first Apache release.
- Improve documentation and provide a roadmap.

Are there any issues that the IPMC or ASF Board need to be aware of?

- No critical issues at this point in time

How has the community developed since the last report?

- The community has held its first sync-up. English sync up scheduled bi-weekly, Mandarin sync up every 4 weeks from this time forward.
- Added 3 new contributors to the project.

How has the project developed since the last report?

- started working on the first release (version 0.8)
- notification for JIRA and GitHub setup finished
- website development has started (including build process)

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?

No new committers or PPMC members have been added since starting incubation.

Have your mentors been helpful and responsive?

Yes, gave guidance on email list usage and provided valuable input during the community sync up.

Is the PPMC managing the podling's brand / trademarks?

No issues that we are aware of

Signed-off-by:

- (yunikorn) Junping Du
  Comments:
- (yunikorn) Felix Cheung
  Comments:
- (yunikorn) Jason Lowe
  Comments:
- (yunikorn) Holden Karau
  Comments:

Comments:

IPMC/Shepherd notes: