March 2022

**DRAFT DRAFT DRAFT**

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. Especially **do not** change the formatting of the sign-off area.
- 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 one 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 the apache URL shortener [https://s.apache.org](https://s.apache.org).
- Please note that some lines have two spaces at the end. **Do not remove these spaces**.

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed March 02</td>
<td>Podling reports due by end of day</td>
</tr>
<tr>
<td>Sun March 06</td>
<td>Shepherd reviews due by end of day</td>
</tr>
<tr>
<td>Sun March 06</td>
<td>Summary due by end of day</td>
</tr>
<tr>
<td>Tue March 08</td>
<td>Mentor signoff due by end of day</td>
</tr>
<tr>
<td>Wed March 09</td>
<td>Report submitted to Board</td>
</tr>
<tr>
<td>Wed March 16</td>
<td>Board meeting</td>
</tr>
</tbody>
</table>

### Shepherd Assignments

<table>
<thead>
<tr>
<th>XXX</th>
<th>XXX</th>
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</thead>
</table>
Incubator PMC report for March 2022

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

TODO add narrative

Community

New IPMC members:

People who left the IPMC:

New Podlings

Podlings that failed to report, expected next month

Graduations

• list podling here

The board has motions for the following:

• Your podling here?

Releases

The following releases entered distribution during the month of November:

IP Clearance
Legal / Trademarks
Infrastructure
Miscellaneous
Credits

Table of Contents
AGE

AGE is a multi-model database that enables graph and relational models built on PostgreSQL.

AGE has been incubating since 2020-04-29.

**Three most important unfinished issues to address before graduating:**

All the minor issues that were raised last time during the graduation discussion are fixed now.

**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?**

The community developed a lot, we added more PPMCs and Committers to the projects.

**How has the project developed since the last report?**

Release 0.7.0 completed. AGEviewer release in process. AGE 1.0.0 release in process.

**How would you assess the podling's maturity?**

Please feel free to add your own commentary.

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

**Date of last release:**

2022-02-03

**When were the last committers or PPMC members elected?**

Last committer 2022-02-28 Last PPMC 2022-02-07

**Have your mentors been helpful and responsive?**

Are things falling through the cracks? If so, please list any open issues that need to be addressed. None

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

Are 3rd parties respecting and correctly using the podling's name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Yes, PPMC is managing the podling's brand / trademarks.
brpc

brpc is an industrial-grade RPC framework for building reliable and high-performance services.

brpc has been incubating since 2018-11-13.

Three most important unfinished issues to address before graduating:

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

How has the community developed since the last report?

How has the project developed since the last report?

How would you assess the podling's maturity?

Please feel free to add your own commentary.

 Initialize 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?

Have your mentors been helpful and responsive?

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?
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 unfinished issues to address before graduating:**

Are there any issues that the IPMC or ASF Board need to be aware of?
How has the community developed since the last report?
How has the project developed since the last 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:**

XXXX-XX-XX

**When were the last committers or PPMC members elected?**

**Have your mentors been helpful and responsive?**

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

**Signed-off-by:**

- (crail) Julian Hyde
- (crail) Luciano Resende
- (crail) Felix Cheung

**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:**

Are there any issues that the IPMC or ASF Board need to be aware of?
How has the community developed since the last report?
How has the project developed since the last 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:

XXXXXXXX-XX-XX

When were the last committers or PPMC members elected?

Have your mentors been helpful and responsive?

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Signed-off-by:

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

IPMC/Shepherd notes:

Hop

Hop is short for the Hop Orchestration Platform. Written completely in Java it aims to provide a wide range of data orchestration tools, including a visual development environment, servers, metadata analysis, auditing services and so on. As a platform, Hop also wants to be a reusable library so that it can be easily reused by other software.

Hop has been incubating since 2020-09-24.

Three most important unfinished issues to address before graduating:

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

How has the community developed since the last report?

How has the project developed since the last 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:

XXXXXXXX-XX-XX

When were the last committers or PPMC members elected?

Have your mentors been helpful and responsive?
Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

**Signed-off-by:**

- (hop) Tom Barber
  Comments:
- (hop) Julian Hyde
  Comments:
- (hop) Maximilian Michels
  Comments:
- (hop) Francois Papon
  Comments:
- (hop) Kevin Ratnasekera
  Comments:

**IPMC/Shepherd notes:**

**Kyuubi**

Kyuubi is a distributed multi-tenant Thrift JDBC/ODBC server for large-scale data management, processing, and analytics, built on top of Apache Spark and designed to support more engines.

Kyuubi has been incubating since 2021-06-21.

**Three most important unfinished issues to address before graduating:**

1. Gain more active contributors/committers to build a diverse community
2. Make Apache releases regularly and keep the quality for all releases
3. Improve project structure and documentation

**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?**

- Adds two new Committers
- 11 new contributors join code contribution. There are currently 65 contributors and 11 committers.
- Kyuubi Podling Maturity Self Assessment is drafted based on Apache Project Maturity Model.
- 1.5 branch cut
- Participate in 3 online, 1 offline meetup to share kyuubi

**How has the project developed since the last report?**

- Release v1.4.1-incubating on 2022-01-30
- Get help from some web developers from NetEase, and we are working on the new design of our website
- Trino, Flink engines in beta for pre-view in the comming v1.5.0
- Hive engine is designed and we are looking for contributors

**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:**

- 2022-01-30
When were the last committers or PPMC members elected?

- 2021-12-15 Yang Hua
- 2021-12-15 Dongdong Hong

Have your mentors been helpful and responsive?

- Mentors are helpful and always responsive.

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

Yes

### Signed-off-by:

- (kyuubi) Willem Ning Jiang
  - Comments:
- (kyuubi) Jeff Zhang
  - Comments:
- (kyuubi) Duo Zhang
  - Comments:
- (kyuubi) Akira Ajisaka
  - Comments: Sorry I was late for sign-off.

### IPMC/Shepherd notes:

**Livy**

Livy is web service that exposes a REST interface for managing long running Apache Spark contexts in your cluster. With Livy, new applications can be built on top of Apache Spark that require fine grained interaction with many Spark contexts.

Livy has been incubating since 2017-06-05.

**Three most important unfinished issues to address before graduating:**

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

**How has the community developed since the last report?**

**How has the project developed since the last 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:**

XXXX-XX-XX

**When were the last committers or PPMC members elected?**

**Have your mentors been helpful and responsive?**

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

**Signed-off-by:**
IPMC/Shepherd notes:

Linkis

Apache Linkis is a computation middleware project, which decouples the upper applications and the underlying data engines, provides standardized interfaces (REST, JDBC, WebSocket etc.) to easily connect to various underlying engines (Spark, Presto, Flink, etc.).

Linkis has been incubating since 2021-08-02.

Three most important unfinished issues to address before graduating:

1. Improve project infrastructure (CI, CD, test automation, etc.) and structure to facilitate community collaboration.
2. Make Apache releases regularly and keep the quality for all releases.
3. Gain more active contributors and committers to build a diverse community.

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 committer and 8 contributors increased. There are currently 77 contributors and 16 committers.
- 146 issues and 78 pull requests since last report (2022/01/26), (issues:total/closed/open 821/567/254, pr: total/closed/open 638/699/17)
- released a new version 1.0.3.
- 2022/02/24 The first Linkis Community Meetup of the year was held.

How has the project developed since the last report?

- We have released a new version 1.0.3.
- Apache release 1.1.0 under development, progress 80%.
- Apache release 1.1.1 under development, progress 20%.

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:

2022-01-29

When were the last committers or PPMC members elected?

2022-02-24 New Committer: Chen Xia

Have your mentors been helpful and responsive?

Our mentors have been helpful and responsive.

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

The PPMC manages the podling’s brand / trademarks.

Signed-off-by:

- [ ] (linkis) Duo Zhang
  Comments:
Marvin-AI

Marvin-AI is an open-source artificial intelligence (AI) platform that helps data scientists, prototype and productionalize complex solutions with a scalable, low-latency, language-agnostic, and standardized architecture while simplifies the process of exploration and modeling.

Marvin-AI has been incubating since 2018-08-21.

Three most important unfinished issues to address before graduating:

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

How has the community developed since the last report?

How has the project developed since the last 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:

XXXX-XX-XX

When were the last committers or PPMC members elected?

Have your mentors been helpful and responsive?

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Signed-off-by:

- (marvin-ai) Luciano Resende
- (marvin-ai) William Colen

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 unfinished issues to address before graduating:

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

How has the community developed since the last report?

How has the project developed since the last 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:

XXXX-XX-XX

When were the last committers or PPMC members elected?

Have your mentors been helpful and responsive?

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Signed-off-by:

- (nemo) Hyunsik Choi
  Comments:
- (nemo) Byung-Gon Chun
  Comments:
- (nemo) Jean-Baptiste Onofré
  Comments:
- (nemo) Markus Weimer
  Comments:

IPMC/Shepherd notes:

PageSpeed

PageSpeed represents a series of open source technologies to help make the web faster by rewriting web pages to reduce latency and bandwidth.

PageSpeed has been incubating since 2017-09-30.

Three most important unfinished issues to address before graduating:

1. Grow the number of active developers.
2. Enhance the release process: switch to github tagged release to simplify.

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

While there is a healthy user base, the number of active developers remains persistently low. This seems to be a hard to address challenge.

How has the community developed since the last report?

Mailing lists and git issues are active. The number of active developers is unchanged.

How has the project developed since the last report?
How would you assess the podling's maturity?

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

Date of last release:

The week of May 11th, 2020

When were the last committers or PPMC members elected?

May 27 2019 (Longinos Ferrando, elected as both committer and PMC member)

Have your mentors been helpful and responsive?

Yes

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

As far as we know the brand is respected by third parties.

Signed-off-by:

- (pagespeed) Jukka Zitting
  Comments:
- (pagespeed) Leif Hedstrom
  Comments:
- (pagespeed) Nick Kew
  Comments:

IPMC/Shepherd notes:

SDAP

SDAP is an integrated data analytic center for Big Science problems.
SDAP has been incubating since 2017-10-22.

Three most important unfinished issues to address before graduating:

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

How has the community developed since the last report?

How has the project developed since the last 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:

XXXX-XX-XX

When were the last committers or PPMC members elected?
Have your mentors been helpful and responsive?
Are things falling through the cracks? If so, please list any open issues that need to be addressed.

Is the PPMC managing the podling’s brand / trademarks?
Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Signed-off-by:
- (sdap) Jörn Rottmann
  Comments:
- (sdap) Trevor Grant
  Comments:

IPMC/Shepherd notes:

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 unfinished issues to address before graduating:

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

How has the community developed since the last report?

How has the project developed since the last 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:
XXXX-XX-XX

When were the last committers or PPMC members elected?

Have your mentors been helpful and responsive?
Are things falling through the cracks? If so, please list any open issues that need to be addressed.

Is the PPMC managing the podling’s brand / trademarks?
Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Signed-off-by:
- (spot) Uma Maheswara Rao G
  Comments:

IPMC/Shepherd notes:

StreamPipes
StreamPipes is a self-service (Industrial) IoT toolbox to enable non-technical users to connect, analyze and explore (Industrial) IoT data streams.

StreamPipes has been incubating since 2019-11-11.

**Three most important unfinished issues to address before graduating:**

1. Make more releases
2. Complete maturity assessment
3. Prepare graduation process

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

There are no issues right now.

**How has the community developed since the last report?**

- The community was focused on getting the next release ready
- Several active discussions on the mailing list
- Several users have asked for help on the user mailing list
- Number of Twitter followers has increased (last report: 208, current: 214)
- Number of Github stars increased (last report: 274, current: 289)

**How has the project developed since the last report?**

- This reporting period was focused on finishing the next release 0.69.0
- Next release will have major improvements related to the data explorer and user management
- The next release 0.69.0 is now under vote on the project list
- We plan to have a first stable release 1.0 within the next months

**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:**

2021-07-22 (next release is under vote)

**When were the last committers or PPMC members elected?**

2021-12-04

**Have your mentors been helpful and responsive?**

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

Yes, our mentors are helpful.

**Is the PPMC managing the podling’s brand / trademarks?**

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Yes, project name is approved and the brand is actively managed.

**Signed-off-by:**

- (streampipes) Christofer Dutz
- (streampipes) Jean-Baptiste Onofré
- (streampipes) Julian Feinauer
- (streampipes) Justin Mclean
IPMC/Shepherd notes:

**Toree**

Toree provides applications with a mechanism to interactively and remotely access Apache Spark.

Toree has been incubating since 2015-12-02.

**Three most important unfinished issues to address before graduating:**

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

**How has the community developed since the last report?**

**How has the project developed since the last 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:**

XXXX-XX-XX

**When were the last committers or PPCM members elected?**

**Have your mentors been helpful and responsive?**

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

**Is the PPCM managing the podling's brand / trademarks?**

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPCM taken to correct this? Has the VP, Brand approved the project name?

**Signed-off-by:**

- ☐ (toree) Luciano Resende
  Comments:
- ☐ (toree) Julien Le Dem
  Comments:
- ☐ (toree) Ryan Blue
  Comments:

IPMC/Shepherd notes:

**Training**

The Training project aims to develop resources which can be used for training purposes in various media formats, languages and for various Apache and non-Apache target projects.

Training has been incubating since 2019-02-21.

**Three most important unfinished issues to address before graduating:**

**Are there any issues that the IPMC or ASF Board need to be aware of?**
How has the community developed since the last report?
How has the project developed since the last 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:

XXXX-XX-XX

When were the last committers or PPMC members elected?

Have your mentors been helpful and responsive?

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Signed-off-by:

- (training) Craig Russell
- (training) Christofer Dutz
- (training) Justin Mclean
- (training) Lars Francke

IPMC/Shepherd notes:

Wayang

Wayang is a cross-platform data processing system that aims at decoupling the business logic of data analytics applications from concrete data processing platforms, such as Apache Flink or Apache Spark. Hence, it tames the complexity that arises from the "Cambrian explosion" of novel data processing platforms that we currently witness.

Wayang has been incubating since 2020-12-16.

Three most important unfinished issues to address before graduating:

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

How has the community developed since the last report?

How has the project developed since the last 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:

XXXX-XX-XX

When were the last committers or PPMC members elected?

Have your mentors been helpful and responsive?

Are things falling through the cracks? If so, please list any open issues that need to be addressed.

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

Are 3rd parties respecting and correctly using the podlings name and brand? If not what actions has the PPMC taken to correct this? Has the VP, Brand approved the project name?

Signed-off-by:

- (wayang) Christofer Dutz
- (wayang) Lars George
- (wayang) Bernd Fondermann
- (wayang) Jean-Baptiste Onofré

IPMC/Shepherd notes:

SeaTunnel

SeaTunnel is a distributed, high-performance data integration platform for the synchronization and transformation of massive data (offline & real-time). SeaTunnel has been incubating since 2021-12-9.

Three most important unfinished issues to address before graduating:

1: Make official SeaTunnel (Incubating) Release. 2: Build Community around the SeaTunnel project. 3: Guide community discuss more complicated topic via e-mail instead of other channel.

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?

The community ushers in 8 new contributors, bringing the total number to 49 now. 60+ pull requests have been merged since SeaTunnel entered the last report. We will be hosting a meetup with Kyuubi (Incubating) on 3.12 2022, in which the community contributors and users will share their stories about application practices or open-source contributions.

How has the project developed since the last report?

The community contributors continuously working on 2.0 features, and we are now testing individual modules. We will soon release the first version of SeaTunnel in March, stay tuned!

How would you assess the podling's maturity?

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

Date of last release:

We are currently working towards our first Apache-based release.

When were the last committers or PPMC members elected?

Huajie Wang was added as committer on 2022-01-25 Chunfu Wu has accepted the Committer's invitation and is submitting ICLA.
Have your mentors been helpful and responsive?
Yes, always responsive and helpful. They gave a lot of advice on building the first version.

Is the PPMC managing the podling's brand / trademarks?
No known issues, but further investigation is still required by the SeaTunnel community.

Signed-off-by:

- (SeaTunnel) Kevin Ratnasekera Comments:
- (SeaTunnel) Willem Jiang Comments:
- (SeaTunnel) William Guo Comments:
- (SeaTunnel) Zhenxu Ke Comments:
- (SeaTunnel) Ted Liu Comments:
- (SeaTunnel) Jean-Baptiste Onofre Comments:
- (SeaTunnel) Lidong Dai Comments:

IPMC/Shepherd notes: