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.
- 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.

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

### Timeline

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed December 01</td>
<td>Podling reports due by end of day</td>
</tr>
<tr>
<td>Sun December 05</td>
<td>Shepherd reviews due by end of day</td>
</tr>
<tr>
<td>Sun December 05</td>
<td>Summary due by end of day</td>
</tr>
<tr>
<td>Tue December 07</td>
<td>Mentor signoff due by end of day</td>
</tr>
<tr>
<td>Wed December 08</td>
<td>Report submitted to Board</td>
</tr>
<tr>
<td>Wed December 15</td>
<td>Board meeting</td>
</tr>
</tbody>
</table>

### Shepherd Assignments

| XXX | XXX |
Incubator PMC report for December 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:
1. Complete the Release 0.6.0 2. AGE Viewer First Release 3. New PPMC Member

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?
Yes, we have 4 new committers and new contributors.

How has the project developed since the last report?
We had the Apache AGE 0.5.0 release, the AGE Viewer tool client drivers for AGE.

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:
2021-08-03

When were the last committers or PPMC members elected?
2021-11-13

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.

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

Signed-off-by:
IPMC/Shepherd notes:

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.

- 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 podling’s 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:

- (brpc) Kevin A. McGrail
  Comments:
- (brpc) Jean-Baptiste Onofré
  Comments:
- (brpc) Von Gosling
  Comments:
- (brpc) Juan Pan
  Comments:

IPMC/Shepherd notes:
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
  Comments: 
• (crail) Luciano Resende
  Comments:
• (crail) Felix Cheung
  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:

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.
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:

* (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:

XXXX-XX-XX

When were the last committers or PPMC members elected?

Have your mentors been helpful and responsive?

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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:**

**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:

- (kyuubi) Willem Ning Jiang
  Comments:
- (kyuubi) Jeff Zhang
  Comments:
- (kyuubi) Duo Zhang
  Comments:
Livy

Livy is a 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
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Signed-off-by:

- (livy) Bikas Saha
  Comments:
- (livy) Luciano Resende
  Comments:
- (livy) Jean-Baptiste Onofré
  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
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Signed-off-by:

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

IPMC/Shepherd notes:

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
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- Nearing graduation
- Other:

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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:

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

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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:

- (pagespeed) Jukka Zitting
  Comments:
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
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- Nearing graduation
- Other:

Date of last release:
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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
- (sdap) Trevor Grant

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.

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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:

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
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- [ ] Other:

Date of last release:

XXXX-XX-XX

When were the last committers or PPMC members elected?

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

- (streampipes) Christofer Dutz
  Comments:
- (streampipes) Jean-Baptiste Onofré
  Comments:
- (streampipes) Julian Feinauer
  Comments:
- (streampipes) Justin Mclean
  Comments:
- (streampipes) Kenneth Knowles
  Comments:

**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.

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- Other:

**Date of last release:**

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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:**

- (toree) Luciano Resende
  Comments:
- (toree) Julien Le Dem
  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
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- 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

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Signed-off-by:

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

IPMC/Shepherd notes: