1.19 Release

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Jira Boards

Flink 1.19 Burndown: 1.19 Burndown - Agile Board - ASF JIRA (apache.org)

Sync meeting

- The release sync will start from Nov 14th, 2023, at 9am (CET, UTC+1) and 4pm (UTC+8). The release sync happens bi-weekly at first, and will be adjusted to weekly as we approaching the feature freeze date.
- Feel free to join on Google Meet, and attendees are encouraged to fill out the topics to be discussed at the bottom of this page a day in advance to make it easier for everyone to understand the background of the topic.

Timeline

- Feature Freeze
  - Jan 26, 2024, 00:00 CET(UTC+1)
- Release
  - End of Feb 2024

Highlight features

*please feel free to add/suggest.*

Features

List of features announced by contributors and committers that are likely to be ready for the feature freeze:

**NOTICE:** It's preferred if only new features end up there and not all bugs/tasks separately, so that the page is not over bloated. Of course, unless fixing a bug is a really big or important one equivalent to implementing a completely new feature. A good rule of thumb would be that each entry in the page could (but does not have to) be later on included in a release blog post.

Legend
State

<table>
<thead>
<tr>
<th>symbol</th>
<th>meaning</th>
<th>comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>😊</td>
<td>validated</td>
<td>through cross team testing</td>
</tr>
<tr>
<td>✔️</td>
<td>done</td>
<td>well documented with a complete test coverage</td>
</tr>
<tr>
<td>⭐️</td>
<td>will make it</td>
<td>there is no reason this effort should not go into 1.19</td>
</tr>
<tr>
<td>⭐️</td>
<td>in danger</td>
<td>there are some concerns the effort could be ready for the feature freeze of 1.19</td>
</tr>
<tr>
<td>⭐️</td>
<td>very unlikely</td>
<td>there are severe concerns the effort could make it to 1.19</td>
</tr>
<tr>
<td>🙅</td>
<td>won't make it</td>
<td>it was decided against adding this for the 1.19 release. working on the effort has been stopped.</td>
</tr>
<tr>
<td>❓</td>
<td>state unclear</td>
<td></td>
</tr>
<tr>
<td>⭐️</td>
<td>independent</td>
<td>as the artifact could be released independent of Apache Flink</td>
</tr>
</tbody>
</table>

X-Team verification

<table>
<thead>
<tr>
<th>symbol</th>
<th>meaning</th>
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<tbody>
<tr>
<td>✔️</td>
<td>done</td>
</tr>
<tr>
<td>⭐️</td>
<td>not required</td>
</tr>
</tbody>
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Feature Stage

Please align with the list on the Apache Flink Roadmap (https://flink.apache.org/roadmap.html).

- MVP: Have a look, consider whether this can help you in the future.
- Beta: You can benefit from this, but you should carefully evaluate the feature.
- Ready and Evolving: Ready to use in production, but be aware you may need to make some adjustments to your application and setup in the future, when you upgrade Flink.
- Stable: Unrestricted use in production
- Reaching End-of-Life: Stable, still feel free to use, but think about alternatives. Not a good match for new long-lived projects.
- Deprecated: Start looking for alternatives now

Summary

Numbers are based on the items in the list below, not on the tickets

<table>
<thead>
<tr>
<th></th>
<th>😊</th>
<th>✔️</th>
<th>⭐️</th>
<th>⭐️</th>
<th>⚪️</th>
<th>⚫️</th>
<th>Remaining weeks</th>
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<td></td>
<td>21 9</td>
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<td>2023-12-12</td>
<td>3</td>
<td>11</td>
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<td>23 7</td>
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<td>2023-12-26</td>
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<td>27 5</td>
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<td>27 3</td>
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<td>29 1</td>
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<td>2024-01-30</td>
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<td>2</td>
<td>1</td>
<td>4</td>
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<td>31 0</td>
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<td>2024-02-06</td>
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List

Feel free to add categories.

<table>
<thead>
<tr>
<th>Name/JIRA Issue</th>
<th>Responsible Contributor</th>
<th>Reviewer/committer available</th>
<th>Feature Stage</th>
<th>Note</th>
<th>State</th>
<th>%</th>
<th>Updated</th>
<th>Implemented</th>
<th>Documented</th>
<th>X-team verified</th>
<th>Volunteers for tests</th>
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<tr>
<td>Shuffle</td>
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<td>Coordination</td>
<td>Responsible</td>
<td>Reviewer</td>
<td>Feature Stage</td>
<td>Note</td>
<td>State</td>
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<td>Implemented</td>
<td>Documented</td>
<td>X-team verified</td>
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<tr>
<td>FLIP-379: Dynamic source parallelism inference for batch jobs</td>
<td>Xia Sun</td>
<td>Zhu Zhu</td>
<td>✔️</td>
<td>2024-01-23</td>
<td></td>
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<td>FLINK-31787 - Getting issue details...</td>
<td>RocMarshal</td>
<td>Rui Fan Yangz e Gue Zhu Zhu</td>
<td>Accepted</td>
<td>✔️</td>
<td>✔️</td>
<td>2024-01-22</td>
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<td>FLINK-33735 - Getting issue details...</td>
<td>Rui Fan</td>
<td>Zhu Zhu RocMarashal</td>
<td>Done</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>2024-01-22</td>
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<tr>
<td>FLIP-384: Introduce TraceReporter and use it to create checkpointing and recovery traces</td>
<td>Piotr Nowojski</td>
<td>Done</td>
<td>✔️</td>
<td>2024-01-18</td>
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<tr>
<td>FLIP-385: Add OpenTelemetryTraceReporter and OpenTelemetryMetricReporter</td>
<td>Piotr Nowojski</td>
<td>Done</td>
<td>✔️</td>
<td>2024-01-24</td>
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<tr>
<td>FLIP-386: Support adding custom metrics in Recovery Spans</td>
<td>Piotr Nowojski</td>
<td>Done</td>
<td>✔️</td>
<td>2024-01-24</td>
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<td>State &amp; Checkpoint</td>
<td>Hangxiang Yu</td>
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<td>2024-1-15</td>
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<td>FLINK-34190 - Getting issue details...</td>
<td>Zakelly Lan</td>
<td>✔️</td>
<td>2024-1-24</td>
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<td>Configuration</td>
<td>FLINK-366: Support standard YAML for FLINK configuration</td>
<td>Junrui Lee</td>
<td>Zhu Zhu</td>
<td>✔️</td>
<td>✔️</td>
<td>2024-01-26</td>
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<td>FLINK-33712 - FLIP-391: Deprecate RuntimeContext#getExecution Config</td>
<td>Junrui Lee</td>
<td>Zhu Zhu</td>
<td>✔️</td>
<td>✔️</td>
<td>2024-01-16</td>
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<td>FLINK-33581 - FLIP-381: Deprecate configuration getters/setters that return/set complex Java objects</td>
<td>Junrui Lee</td>
<td>Zhu Zhu</td>
<td>✔️</td>
<td>✔️</td>
<td>2024-01-16</td>
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<td>FLINK-34079 - Getting issue details...</td>
<td>Xuannan Su Rui Fan</td>
<td>Done</td>
<td>✔️</td>
<td>2024-01-22</td>
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<td>Reviewer</td>
<td>Feature Stage</td>
<td>Note</td>
<td>State</td>
<td>%</td>
<td>Updated</td>
<td>Implemented</td>
<td>Documented</td>
<td>X-team verified</td>
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<td>FLINK-33397 - Getting issue details...</td>
<td>Jane Chan</td>
<td>✔️</td>
<td>2024-01-30</td>
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<tr>
<td>FLINK-33203</td>
<td>Getting issue details...</td>
<td>@Yangze Guo</td>
<td>✓</td>
<td></td>
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<tr>
<td>FLIP-376: Add DISTRIBUTED BY clause</td>
<td>Timo Walther</td>
<td>2024-01-30</td>
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<td>FLIP-392: Deprecate the Legacy Group Window Aggregation</td>
<td>xuyang</td>
<td>no new flip needed, continue the work on FLINK-24024 &amp; FLINK-20281</td>
<td>✓</td>
<td>2024-01-26</td>
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<tr>
<td>FLINK-24024 &amp; FLINK-20281</td>
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<tr>
<td>FLIP-393: Make QueryOperations SQL serializable</td>
<td>Dawid Wysakowicz</td>
<td>Done</td>
<td>✓</td>
<td>2024-01-18</td>
<td></td>
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<tr>
<td>FLIP-387: Support named parameters for functions and call procedures</td>
<td>@Feng Jin xuyang</td>
<td>need documentation</td>
<td>✓</td>
<td>2024-01-30</td>
<td></td>
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</tr>
<tr>
<td>FLINK-31830 - Getting issue details...</td>
<td>Jane Chan</td>
<td>Under discussion</td>
<td></td>
<td>2024-01-18</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>FLIP-415: Introduce a new join operator to support minibatch</td>
<td>xu_shuai_ Isy</td>
<td>need documentation</td>
<td>✓</td>
<td>2024-01-30</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>FLIP-400: AsyncScalarFunction for asynchronous scalar function support</td>
<td>Alan Sheinberg Timo Walther</td>
<td>Needs documentation</td>
<td>✓</td>
<td>2024-02-05</td>
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</tbody>
</table>

**Connectors**

| FLINK-31275 - Getting issue details... | Fang Yong Qingsheng Ren |  | 2024-01-22 |
| FLINK-26203 - Getting issue details... | Leonard Xu | Pulsar connector has formal release already | ✓ | 2024-01-23 |
| FLINK-33261 - Getting issue details... | Zhanghao Chen Dewei Su | only left for changes in kafka connect or | ✓ | 2024-01-22 |
| FLINK-25857 - Getting issue details... | Peter Vary Márton Balassi | Done | ✓ | 2024-01-18 |
| FLIP-371: Provide initialization context for Committer creation in TwoPhaseCommittingSink | Peter Vary Tzu-Li (Gordon) Tai | Mark it done since main part of the new api been merged (remaining tests and doc) | ✓ | 2024-01-23 |

**Resource Management**

**Runtime**
Status / Follow-ups

11/14/2023

- Is Google Meet OK for everyone? - ok
- The release sync meeting time, currently Europe has gone into winter time (CET, UTC+1), is 9am ok? - ok
- Daily work divisions
  - JIRA ticket (Mainly focus on new blockers, progress of existing blockers each week) lincoln lee
  - CI (Failures reported in #build channel and not reported) Martijn Visser
  - Benchmark (Check if there's regression in the #flink-dev-benchmarks channel) Yun Tang
  - Mailing list monitoring Jing Ge
  - This division doesn't mean that other RMs are now allowed to do the work. All RMs should take responsibilities on all of these daily issues if they are available.
- Feature freezing date. - Jan 26, 2024, 00:00 CET (UTC+1)
- Retrospective of 1.18

11/28/2023

- Blockers
  - FLINK-25857 - Getting issue details... [discuss thread] - back to ml discussion
  - documentation build failures [FLINK-33544 - Getting issue details...] - closed

- GitHub Actions Migration discussion in dev ML (FLIP-396)
- flink-shaded driven by Sergey Nuyanzin
- As suggested by Xintong Song, we encourage attendees to fill out the topics a day in advance to make it easier for everyone to understand the background of the topic.

12/12/2023

- Current status of 1.19 Features lincoln lee - updated
- Existing blocker issues lincoln lee
  - FLINK-25857 - Getting issue details... [discuss thread] - closed
  - FLINK-33641 - Getting issue details... [STATUS] (potential blocker)

12/26/2023

- Current status of 1.19 Features lincoln lee - updated
  - 5 weeks remaining, total 27, done 4, will make it 15
- Existing blocker issues lincoln lee
01/09/2024

- Current status of 1.19 Features lincoln lee - updated
  - 3 weeks remaining, total 27, done 4, will make it 15, won’t make it 1
- Existing blocker issues lincoln lee
  - FLINK-32978 - Getting issue details... sergy reported a breaking change, will be fixed soon Wencong Liu

01/23/2024

- Current status of 1.19 Features lincoln lee
  - Jan 26th is the planned feature freeze day, total 28, done 15, will make it 6, won’t make it 4;
- Existing blocker issues lincoln lee
  - FLINK-34148 - Getting issue details... Sergey Nuyanzin Zakelly Lan
  - FLINK-34007 - Getting issue details... Matthias Pohl
  - FLINK-34135 - Getting issue details... the disk-full issue was addressed, should be stable for now
    - Weird build on Friday (Jan 19): https://dev.azure.com/apache-flink/apache-flink/_build/results?buildId=56601&view=results (probably caused by infrastructure issues; but AFAIU, they were resolved the day before?)
- Whether to delay feature freeze day Yun Tang
- Build pipeline stability
  - FLINK-343202 - Getting issue details... python stage reaches 4h timeout
  - FLINK-341742 - Getting issue details... AsyncSinkWriterThrottlingTest quite unstable recently
  - FLINK-34069 - Getting issue details... : macos wheels build seems to be unstable (multiple open issues)
  - FLINK-34200 - Getting issue details... FLINK-33919 - Getting issue details... : new feature

01/30/2024

- Current status of 1.19 Features lincoln lee
  - We extend the feature freeze day to Jan 30th, total 31, done 24;
  - FLIP-376: Add DISTRIBUTED BY clause could be done this week: do we want to wait, or do we want to cut the release branch? Martijn Visser Will be postponed to 1.20
- Existing blocker issues lincoln lee
  - FLINK-34148 - Getting issue details... Sergey Nuyanzin Zakelly Lan
  - FLINK-34007 - Getting issue details... Matthias Pohl
  - FLINK-34225 - Getting issue details... & FLINK-34233 - Getting issue details... @yunfengzhou
  - FLINK-34272 - Getting issue details...
- When to cut release-1.19 branch?
- Cross-team release testing work

02/06/2024

- Blockers:
  - FLINK-34148 - Getting issue details...
  - FLINK-34007 - Getting issue details...
  - FLINK-34225 - Getting issue details... & FLINK-34233 - Getting issue details... @yunfengzhou
  - FLINK-34272 - Getting issue details...
  - FLINK-34337 - Getting issue details... pr reviewing jiabao.sun
FLINK-33958 - Getting issue details... not yet clarified whether it's a production code or test issue

- Cut release 1.19 branch
- fyi: FLINK-34360 - Getting issue details... GitHub Actions e2e tests seem to have disk space issues causing multiple test failure (not present in Azure)

Cross-team release testing FLINK-34285 - Getting issue details... status
- total 26 flip/features, 15 confirmed, 7 not required. 4 wait for response (authors: Dawid Wysakowicz, Peter Vary, Alan Sheinberg)
- testing instructions ready: 11 (1 completed, 3 assigned, 7 unassigned), wait for doc ready: 2
- more completed flips found, will update the testing ticket (done, 6 instructions tickets added)

02/13/2024

- Not verified Jira issues:
  - FLINK-34404 - Getting issue details... status
  - FLINK-34424 - Getting issue details... status
  - FLINK-34425 - Getting issue details... status
  - FLINK-34427 - Getting issue details... status
  - Matthias Pohl

- CI instability issues:
  - FLINK-34273 - Getting issue details... status
  - FLINK-34202 - Getting issue details... status
  - Nightly build for 1.19 doesn't seem to be picked

Cross-team release testing FLINK-34285 - Getting issue details... status
- wait for response: there's some authentication problem in current kanban dashboard. use filter on Jira search 'project = FLINK AND type = Sub-task AND parent = FLINK-34285 AND labels is EMPTY AND status = OPEN ORDER BY updatedDate'
- wait for doc ready:
  - FLINK-34310 - Getting issue details... status
  - FLINK-34305 - Getting issue details... status
- testing tickets: Jira filter condition 'project = FLINK AND type = Sub-task AND parent = FLINK-34285 AND labels = release-testing ORDER BY updatedDate'

02/20/2024

- Not verified Jira issues:
  - FLINK-34404 - Getting issue details... status
  - FLINK-34424 - Getting issue details... status
  - FLINK-34425 - Getting issue details... status
  - FLINK-34427 - Getting issue details... status
  - Matthias Pohl
  - Yunfeng Zhou

- CI instability issues:
  - FLINK-34273 - Getting issue details... status
  - FLINK-34202 - Getting issue details... status
  - @Xingbo Huang

Cross-team release testing FLINK-34285 - Getting issue details... status
- wait for response: there's some authentication problem in current kanban dashboard. use filter on Jira search 'project = FLINK AND type = Sub-task AND parent = FLINK-34285 AND labels is EMPTY AND status = OPEN ORDER BY updatedDate'
- wait for doc ready:
  - FLINK-34305 - Getting issue details... status
- testing tickets: Jira filter condition 'project = FLINK AND type = Sub-task AND parent = FLINK-34285 AND labels = release-testing ORDER BY updatedDate'
  - 15 total, 8 closed, 4 unassigned, 3 testing

- When to create rc? — after release testing finished and no blockers
02/27/2024

- CI instability issues
  - [FLINK-34513](https://lists.apache.org/thread/2llhhbkcx5w7c8hp3d6cthoqc8khv6x) - Getting issue details...
  - [FLINK-34489](https://github.com/apache/flink/pull/24378#pullrequestreview-1902749309) - Getting issue details...

- One api-deprecation pr requested to merge
  - [https://lists.apache.org/thread/2llhhbkcx5w7c8hp3d6cthoqc8khv6x](https://lists.apache.org/thread/2llhhbkcx5w7c8hp3d6cthoqc8khv6x)
  - [https://github.com/apache/flink/pull/24387#pullrequestreview-1902749309](https://github.com/apache/flink/pull/24387#pullrequestreview-1902749309)

- Cross-team release testing
  - [FLINK-34285](https://lists.apache.org/thread/2llhhbkcx5w7c8hp3d6cthoqc8khv6x) - Getting issue details...
  - testing tickets: 2 under testing

- release note

03/05/2024

- Release (call for reviewing)
  - rc1 has been created, will start a vote after local verification – voting thread: [https://lists.apache.org/thread/10bxy1zhzy6hycjyohyl3psxz3zs3zh34](https://lists.apache.org/thread/10bxy1zhzy6hycjyohyl3psxz3zs3zh34)
  - release note pr: [https://github.com/apache/flink/pull/24394](https://github.com/apache/flink/pull/24394)
  - release announcement pr: [https://github.com/apache/flink-web/pull/721](https://github.com/apache/flink-web/pull/721)

- Unclear priority:
  - [FLINK-34571](https://lists.apache.org/thread/2llhhbkcx5w7c8hp3d6cthoqc8khv6x) - Getting issue details...

03/12/2024

- Release (call for reviewing)
  - rc2 voting thread: [https://lists.apache.org/thread/x61673q3r6o5zjvwy17jht2bqowzcy2v](https://lists.apache.org/thread/x61673q3r6o5zjvwy17jht2bqowzcy2v)
  - release announcement pr: [https://github.com/apache/flink-web/pull/721](https://github.com/apache/flink-web/pull/721)

- Subject to investigation:
  - [FLINK-34227](https://lists.apache.org/thread/2llhhbkcx5w7c8hp3d6cthoqc8khv6x) - Getting issue details...