

# Releasing Apache Geode

This article contains all the steps required to release Apache Geode.

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## Before you begin

### Software dependencies

1. git <https://git-scm.com/downloads>
2. docker <https://docs.docker.com/docker-for-mac/install/>
3. gpg tools <https://gpgtools.org>
4. java JDK8 <https://adoptopenjdk.net> **Make sure you have the latest patch release of OpenJDK 1.8.0 (not Oracle JDK).**
5. Homebrew <https://brew.sh/>
6. svn [on Mac, brew install svn]
7. fly use platform-appropriate download link in bottom right corner of <https://concourse.apachegeode-ci.info>. Do it this way, not with homebrew, so you get the version that matches concourse.
8. cmake, doxygen, and openssl - install using an appropriate package manager, e.g. on Mac: brew install doxygen && brew install cmake && brew install openssl
9. jinja pip3 install Jinja2
10. PyYAML pip3 install PyYAML
11. text editor (vi or whatever you prefer)
12. web browser

### Permission and keys



#### Permission and Keys:

- Ensure that the release manager is (or will be able to work with) a Geode PMC member (needed at svn checkout step in prepare\_rc).
- Ensure that the release manager has bulk modification permissions on Apache Geode JIRA.

#### To verify

- a. Go to : <https://issues.apache.org/jira/secure/Dashboard.jspa> login **Issues Search for Issues** select **Geode in the Project list**
- b. After logging in, on the top right side of the page click on **Tools Bulk Change Current Page**
- c. Select any ticket and click **Next**
- d. The **Transition Issue** option should not be blocked as N/A. If it is not blocked means that you have bulk operation permission.
- e. You will also need admin permissions to manage releases in Jira. To check, see if you can see an Add button on <https://issues.apache.org/jira/projects/GEODE?selectedItem=com.atlassian.jira.jira-projects-plugin:release-page>
- f. If you don't have permissions, send a mail requesting permission to [dev@geode.apache.org](mailto:dev@geode.apache.org).

- Ensure that the release manager has permission to modify the wiki for the release docs : [Release Notes](#)
  1. If you don't have permissions, send a mail requesting permission to [dev@geode.apache.org](mailto:dev@geode.apache.org).
- Ensure that the release manager has permission to deploy pipelines to Geode CI (you need to be able to login to <https://concourse.apachegeode-ci.info> AND send a request to [dev@geode.apache.org](mailto:dev@geode.apache.org) requesting concourse permissions for your login)
- Ensure that the release manager has Docker Hub credentials with permission to upload Apache Geode to Docker Hub. To get permissions follow the steps below
  - a. If you don't have a docker hub account create one at <https://hub.docker.com/>
  - b. After creating the docker hub ID, send an email to [dev@geode.apache.org](mailto:dev@geode.apache.org) requesting access to upload Apache Geode artifacts to Docker Hub mentioning your docker id.
- Ensure that the release manager has a valid pgp key. Make sure to keep your gpg passphrase in a safe place (you will need it again later). The email address associated with your gpg key **must** be your `@apache.org` email address.
  - a. For MacOS use <https://gpgtools.org/>
  - b. For Ubuntu <https://askubuntu.com/questions/100281/how-do-i-make-a-gpg-key>
  - c. Ensure that the public key is published and uploaded to servers.
    - i. Add the key fingerprint to <https://id.apache.org> under **OpenPGP Public Key Primary Fingerprint**. The fingerprint can be found in the GPG Keychain in MacOS or the second line of the command executed in step a.
    - ii. Upload your public key into ALL of the following keyservers:
      1. <http://pool.sks-keyservers.net:11371>
      2. <http://keyserver.ubuntu.com:11371>
      3. 

```
gpg --send-keys 8_digit_fingerprint
gpg --keyserver pgp.mit.edu --send-keys 8_digit_fingerprint
gpg --keyserver keyserver.ubuntu.com --send-keys 8_digit_fingerprint
```
  - d. Ask a fellow committer to co-sign your key. Note: it may take several hours or overnight before other's can "see" that your key has been uploaded, and as along again for you to see that they signed it, so start this process early.
- Add the release manager's public key block to the `KEYS` file in develop branch, if they are not already present in it.

- a. On MacOS : (More information available at <https://www.apache.org/dev/release-signing.html#basic-facts>)

**On MacOS terminal**

```
(gpg --list-sigs <your name> && gpg --armor --export <your name>) >> keys.log
```

- b. Take the contents of keys.log and append it to KEYS file in the develop branch of Apache Geode. Commit and push to origin.  
c. Sample key block which needs to be appended to the KEYS file in develop:

```
pub   rsa4096 2018-01-04 [SC] [expires: 2022-01-04]
      CE6CD0A89480B1B9FCB98699274C66710770C135
uid           [ultimate] Nabarun Nag <nag@cs.wisc.edu>
sig 3          274C66710770C135 2018-01-04  Nabarun Nag <nag@cs.wisc.edu>
sig 3          C8D3705F9DBE2177 2018-02-26  Jason Huynh <jasonhuynh@apache.org>
sub   rsa4096 2018-01-04 [E] [expires: 2022-01-04]
sig          274C66710770C135 2018-01-04  Nabarun Nag <nag@cs.wisc.edu>

-----BEGIN PGP PUBLIC KEY BLOCK-----

mQINBFpOogwBEADlT2Ue6XDFHqbM/LbZXhHMw4rcT4ifuBGyibbUbhLWGimav5tI
buGRxOViV2q5FNIYK6Gyfr1kKt1BxCZxkmbNj5lyqgBM7HfL0sTQ2kGd9IE7rPz
KQ65yzUdKd4Aacm9Zlfja6pV6vYbMBdd4gcGFfsobh4yD0dzFXB1kEiqKV89PhxG
h9PaBFN6FfDYTaUwir2MveV54N5ynPKcVt9Ler5v6wo/1Mr+bxoZ5dyl5UMqxgHT
YfRDGmLvCPjI0Aabc86bzgi8FJ8QdW1/oBLH/fjDardQOSgGCI7Smz4F52LGXb7Z
.
.
.
Y79TWN0e0dBLf6B8dmX+aqfWhziCz2Ijy8lF8sfQl2DalG+YpBkBBsNs8j/6lpHr
Fgh2AddGmNuaP+tMFGCtdeHujkSbx7b1UOkxgLTS7nsRM016QN4czTNYcaUFgVU4
Ig==
=VFqr
-----END PGP PUBLIC KEY BLOCK-----
```

2. Check that git is configured with your apache email address
- check current email: `git config user.email`
  - set to apache if necessary: `git config --global user.email your_apache_ldap_username@apache.org`
3. In GitHub, from drop-down menu in top-right of screen:
- under Settings > Emails > Add email address, add your apache email address (and check your inbox for verification link)
  - paste your public key block (same what you put in KEYS file) into GitHub under Settings > SSH and GPG keys > New GPG Key

## Terminology

A major release is a version `x.0.0` and allows/implies breaking changes, removal of deprecated methods, changes to minimum JDK, etc.

A minor release is a version `x.y.0` where `y > 0` and typically allows/implies new features.

A patch release is a version `x.y.z` where `z > 0` and should contain a limited number of critical fixes only.

Except where noted, all instructions in this guide apply to all three types of releases. Dev list proposals for patch releases may be made at any time since the branch already exists, however some planning ahead is helpful for major or minor releases. since it is usually desirable to cut the branch a couple months in advance.

## Propose cutting a support branch (major/minor only)

Send a [DISCUSS] email to [dev@geode.apache.org](mailto:dev@geode.apache.org) proposing that a new support branch be created.

## Review LICENSE and NOTICE files

Confirm that the Geode LICENSE and NOTICE files on develop are accurate (ask for help on the dev list if needed). This is best done before cutting the branch, otherwise be sure to backport any changes to the support branch as well.

1. `cd .. && ./geode/dev-tools/release/license_review.sh -v HEAD -p 1.12.0` (replace 1.12.0 with the version of the previous release) to check the LICENSE files for missing dependencies or outdated versions and compare dependencies against a previous release. If any dependencies were removed, manually check for stale references in LICENSE or NOTICE files that can be removed. If new dependencies were added that have Apache 2.0 License, add them to the license\_review script's `isApache2` function. If a new 3rd-party .jar is now appearing in the binary distribution, update `geode-assembly/src/main/dist/LICENSE` appropriately. If new 3rd-party intellectual property was checked into the source tree (e.g. a javascript library), update both LICENSE and `geode-assembly/src/main/dist/LICENSE`.

## Branching for release

### Create the support branches (major/minor only)

1. From *one directory above* a checkout of latest geode **develop**, run the `create_support_branches` script. This will create branches on all projects and update version numbers appropriately, and guide you through creating the support pipeline, updating Jira, and creating a PR to bump develop to the next version.

```
cd ..
geode/dev-tools/release/create_support_branches.sh -v 1.13 -g your_github_username
```

2. Review the benchmark baseline on the support branch. It should usually be {previous release}

See `ci/pipelines/shared/jinja.variables.yml` around line 20 (under `benchmarks:`)

```
baseline_version: '1.12.0'
```

3. Send email to [dev@geode.apache.org](mailto:dev@geode.apache.org) informing the creation of the support branch and any rules for backporting changes to the branch.

```
Hello Geode Dev Community,

We have created a new support branch for Apache Geode {x.y.0} - "support/{x.y}"

Please focus your acceptance testing on this branch and raise any concerns in the next few weeks. If any changes are needed please add blocks-{x.y.0} label in Jira and create a PR against support/{x.y}. After some quiet period we will prepare a release candidate and begin voting upon it.

Regards
{Release Manager}
```

4. For the duration of the release process, continue to monitor the new release pipeline and address any issues that may arise, including analyzing any test failures (ask for volunteers on the dev list to investigate any failures you are unsure of).

### Bump the version of the **develop** branch (major/minor only)

1. The `create_support_branches` script already walked you through creating the PR for this, adding the new version to Jira, and bumping the pipeline version on develop. (note: you must be in the Jira Administrators group to see the Add button in Jira; request permission on the dev list if you don't see it).

## Validate Fix Versions in JIRA

There are two parts to this audit:

1. Does every commit since the last release have a corresponding Jira ticket marked as Fixed in this version?
2. Can every Jira ticket marked as fixed in this version be traced to a commit in this support branch since the last release?

To help automate the process of identifying commits and tickets in need of review, you may find [this script](#) useful, or create your own script.

Tips:

- If a Jira ticket is fixed on develop AND cherry-picked to a support branch, it should list both fix versions.
- If a Jira ticket is fixed by way of another commit or Jira ticket, there should be a comment detailing this.
- If a Jira ticket is partially fixed but there is more work to be done in the next release, splitting into two tickets may be the best way to represent that.
- Don't forget about geode-native. It's a separate git repository but uses GEODE Jira tickets and is released as part of Geode.
- Be mindful of revert commits.
- Be mindful of Jira tickets resolved as "Won't Fix", "Duplicate" etc.
- Be mindful of Jira tickets that were re-opened, but the Fixed version was never cleared.
- For changes that came in close to the time a support branch was cut, double-check whether the fix actually made it onto the branch. The list of [release start dates](#) can be helpful, but checkout the release tag to confirm for certain.

- When in doubt, reach out to people that have been involved with the ticket to confirm its status. Many times they just forgot to mark it fixed when their PR got merged, or forgot to fill in the fixed version.

## Begin preparing release documentation

1. Start preparing the release docs at [Release Notes](#). Ask the community for suggestions on fixes and features to highlight, or go through the commits yourself and choose 5-10 items of interest.
2. Also write up a short paragraph on what was added to the release. This will need to go with the final announce email. Sample:

```
Geode 1.13.0 contains a number of improvements and bug fixes.
Changes since last release:
- Performance improvements in OQL order-by and distinct queries in client/server when security is enabled.
- New GFSH commands were added to get/set cluster config and to destroy gateway receivers.
- A new post processor was added to the new client protocol.
- Pulse now supports legacy SSL options.
- Auto-reconnecting members no longer reuse old addresses and IDs.
- Duplicated or member-specific receivers are removed from cluster config during rolling upgrades.
Users are encouraged to upgrade to the latest release.
```

## Creating a Release Candidate

### Accept critical fixes to the support branch

It is expected that some stabilization work may be needed once the support branch is cut. This phase may be very short or very long until a Release Candidate is proposed.

The Release Manager will set the rules for backporting changes to the support branch. For example, they may stipulate critical fixes only and/or require a dev list proposal and/or require a PR against the support branch and/or require a label to be added in Jira. In all cases, fixes need to be made on develop first, then backported.

By some method, determine when all fixes are in. This might involve one or more of:

- checking for Jira tickets tagged as blockers that are not yet delivered
- checking for PRs that are not yet merged
- checking on the dev list for proposals
- waiting for any test failures or other concerns to be resolved
- waiting for some quiet period of no new blocker, PRs, proposals, or concerns.

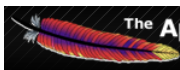
When all signs point to "go", you can either just create the RC and propose it in one email, or if there is any uncertainty, start a dev list discussion first.

### Create the release candidate

1. From *one directory above* a checkout of latest geode **develop**, run the `prepare_rc` script (a `release-n.n.n-workspace` dir will be created in the current directory). This script will do a fresh checkout of the support branch for all repos, build them, and prepare the artifacts. It will also prepare RC tags in each repository and finally pre-stage to nexus. Do not run this in a remote shell or headless environment, as a GUI is required to prompt for your GPG passphrase (several times) and your ASF LDAP password (Apache password). Do not include `@apache.org` in your apache username. If you are not a PMC member, when prompted for SVN password, hit enter and ask a PMC member to enter their username and password, otherwise you will not be able to make the final release later.

```
geode/dev-tools/release/prepare_rc.sh -v 1.13.0.RC1 -k last_8_digits_of_your_gpg_key -a
your_apache_ldap_username
```

2. The "next steps" printed out at the end of the `prepare_rc` script will walk you through the remaining steps to finalize nexus staging (pictured below), publish the release candidate, and send the VOTE email.



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Advanced Search

Views/Repositories

Central Statistics

Repositories

System Feeds

Build Promotion

Staging Profiles

Staging Repositories

Staging Ruleset

Staging Upload

Help

Welcome

Refresh

Close

Promote

Release

Drop

Staging Repositories

Repository	Profile	Status	Updated
orgapacheasterix-1042	org.apache.aste...	closed	2018-Jul-16 17:15:51
orgapacheasterix-1043	org.apache.aste...	closed	2018-Jul-16 20:10:27
orgapachecarbondata-1031	org.apache.car...	closed	2018-Jul-30 20:16:02
orgapachecarbondata-1033	org.apache.car...	closed	2018-Sep-25 22:43:20
orgapachecarbondata-1034	org.apache.car...	closed	2018-Oct-09 12:09:02
orgapachegobblin-1004	org.apache.gob...	closed	2018-Jul-27 19:10:01
orgapachegobblin-1005	org.apache.gob...	closed	2018-Jul-30 17:22:55
orgapachegobblin-1006	org.apache.gob...	closed	2018-Aug-07 16:42:27
orgapachegriffin-1016	org.apache.griffin	closed	2018-Aug-30 03:42:19
orgapachegriffin-1017	org.apache.griffin	closed	2018-Aug-30 06:13:59
orgapacheignite-1430	org.apache.ignite	closed	2018-Sep-25 09:45:13
orgapachemesos-1232	org.apache.mes...	closed	2018-Aug-21 19:12:40
orgapachemesos-1233	org.apache.mes...	closed	2018-Aug-24 16:36:17
orgapachepulsar-1029	org.apache.pulsar	closed	2018-Oct-10 12:34:30
orgapacheratis-1007	org.apache.ratis	closed	2018-Oct-08 14:09:51
orgapacheservicecomb-1318	org.apache.serv...	closed	2018-Jul-23 05:55:29
orgapacheskywalking-1022	org.apache.sky...	closed	2018-Oct-06 08:47:51

orgapachegriffin-1017

Summary

Activity

Content

Repository

orgapachegriffin-1017 (org.apache.griffin)

Created

Thursday, August 30, 2018 06:07:48 PDT (GMT-0700)

Updated

Thursday, August 30, 2018 06:13:59 PDT (GMT-0700)

URL

<https://repository.apache.org/content/repositories/orgapachegriffin-1017>

Activity

✓

Last operation completed successfully

Owner

lionellu (216.113.160.77)

User-Agent

Apache-Maven/3.2.1 (Java 1.8.0\_131; Linux 4.4.0-104-generic), Apache-Maven/3.2.1 (Java 1.8.0\_131; L

Description

done

Save Discard

3.

If there is an older geode staging repository listed (from a previous RC, make sure you drop it. Find "**orgapachegeode-####**" and click on "Drop"

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Welcome

Staging Repositories

Refresh Close Promote Release Drop

Repository	Profile	Status	Updated	Description
orgapacheasterix-1042	org.apache.aste...	closed	2018-Jul-16 17:15:51	Implicitly created (auto staging).
orgapacheasterix-1043	org.apache.aste...	closed	2018-Jul-16 20:10:27	Implicitly created (auto staging).
orgapachecarbondata-1031	org.apache.car...	closed	2018-Jul-30 20:16:02	Apache Carbondata 1.4.1-RC1
orgapachecarbondata-1033	org.apache.car...	closed	2018-Sep-25 22:43:20	Apache Carbondata 1.5.0-RC1
orgapachecarbondata-1034	org.apache.car...	closed	2018-Oct-09 12:09:02	Apache Carbondata 1.5.0-RC2
orgapachegobblin-1004	org.apache.gob...	closed	2018-Jul-27 19:10:01	Apache Gobblin 0.13.0 RC0
orgapachegobblin-1005	org.apache.gob...	closed	2018-Jul-30 17:22:55	Apache Gobblin 0.13.0 RC0
orgapachegobblin-1006	org.apache.gob...	closed	2018-Aug-07 16:42:27	Apache Gobblin 0.13.0 RC1
orgapachegriffin-1016	org.apache.griffin	closed	2018-Aug-30 03:42:19	check done
orgapachegriffin-1017	org.apache.griffin	closed	2018-Aug-30 06:13:59	done
orgapacheignite-1430	org.apache.ignite	closed	2018-Sep-25 09:45:13	Test release close
orgapachemesos-1232	org.apache.mes...	closed	2018-Aug-21 19:12:40	1.7.0-rc1
orgapachemesos-1233	org.apache.mes...	closed	2018-Aug-24 16:36:17	1.7.0-rc2
orgapachepulsar-1029	org.apache.pulsar	closed	2018-Oct-10 12:34:30	Apache Pulsar 2.2.0-candidate-1
orgapacheratis-1007	org.apache.ratis	closed	2018-Oct-08 14:09:51	Apache Ratis Thirdparty 0.1.0rc0
orgapacheservicecomb-1318	org.apache.serv...	closed	2018-Jul-23 05:55:29	ServiceComb Java-Chassis 1.0.0 RC-01
orgapacheskywalking-1022	org.apache.sky...	closed	2018-Oct-06 08:47:51	Implicitly created (auto staging).

## Sanity Checks

1. As instructed by `commit_rc`, before giving the RC to the community to validate, make an `rc` pipeline to validate that the artifacts are viable (do this in a separate terminal window as it can be quite verbose):

```
geode/dev-tools/release/deploy_rc_pipeline.sh -v 1.13
```

2. wait for all jobs to turn green (about 1-2 hours)

## Send out an email announcing the RC

The last instruction from the `prepare_rc` script will be to run the `commit_rc` script. When that is complete, it will print out the contents of the email for you to send (and also copy it to your clipboard, if you have `pbcopy` installed). If you need to re-generate the email for any reason, use `geode/dev-tools/release/print_rc_email.sh`.

Click on every link to validate (especially release notes!), then send the email to the [dev@geode.apache.org](mailto:dev@geode.apache.org) with subject "[VOTE] Apache Geode <ver>. RC<n>".

The voting deadline should be at least 72 hours in the future (typically 3pm 5 days hence if there is a weekend). For emergency patch releases, an expedited voting deadline of as little as 24 hours may be used.

## Tally the votes

After the deadline has passed, reply to the VOTE thread with a voting result summary similar to the following (use the [PMC roster](#) to determine which votes are binding):

### Sample Voting Results Email

It's past the announced deadline and we have enough votes to close the vote.

Voting status

=====

+1: 3 binding votes

\* Name (PMC member)

\* Name (PMC member)

\* Name (PMC member)

\* Other Name

\* Other Name

+0: zero votes

-0: zero votes

-1: zero votes

The voting meets the requirements of at least 3 PMC members with +1 votes and has the required majority of +1 votes.

Apache Geode {ver}.RC{n} has passed the vote and we will finalize the release shortly.

Thanks everyone for the great work!

~{Release Manager}

If not enough votes are received, the release manager may, at their discretion, extend the voting deadline, or abandon the release.

If the voting is successful, [proceed to the next section](#). If showstopper issues were raised, [create a new release candidate](#). If the release is to be abandoned, destroy any staged artifacts in nexus and svn.

## Finalizing (shipping) the Release

### Promote the release candidate to official release

Once a release candidate has been approved:

1. Click 'Release' in <http://repository.apache.org/> (pictured below step 7)
2. Make sure you have forked <https://github.com/Homebrew/homebrew-core> (click the Fork button in top-right corner)
3. Make sure you have forked <https://github.com/apache/geode-native>
4. Make sure you have forked <https://github.com/apache/geode>
5. Make sure you can run `docker info` and `docker images`. On Linux, you may need to add `sudo` before each docker command in the `promote_rc` script and/or `sudo usermod -aG docker $USER`
6. From the same directory you ran the previous release scripts, run the `promote_rc` script (note: you must be a Geode PMC member to `svn commit` to `dist/release/geode`):

```
geode/dev-tools/release/promote_rc.sh -v 1.13.0.RC1 -k last_8_digits_of_your_gpg_key -g  
your_github_username
```

7. The "next steps" printed at the end of the `promote_rc` script will walk you through the remaining tasks to validate the docker image, update Jira, make the brew PR, then finalize the release, followed by the contents of the announce email (also copied to your clipboard, if you have `pbcopy` installed). You can also (re)generate the email later using `geode/dev-tools/release/print_announce_email.sh`. It's ok to start on the



steps below while you are waiting for promote\_rc to finish.

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Welcome | Staging Repositories

Refresh Close Promote **Release** Drop

Repository	Profile	Status	Updated
orgapacheasterix-1042	org.apache.aste...	closed	2018-Jul-16 17:15:51
orgapacheasterix-1043	org.apache.aste...	closed	2018-Jul-16 20:10:27
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orgapachecarbondata-1033	org.apache.car...	closed	2018-Sep-25 22:43:20
orgapachecarbondata-1034	org.apache.car...	closed	2018-Oct-09 12:09:02
orgapachegobblin-1004	org.apache.gob...	closed	2018-Jul-27 19:10:01
orgapachegobblin-1005	org.apache.gob...	closed	2018-Jul-30 17:22:55
orgapachegobblin-1006	org.apache.gob...	closed	2018-Aug-07 16:42:27
orgapachegriffin-1016	org.apache.griffin	closed	2018-Aug-30 03:42:19
<input checked="" type="checkbox"/> orgapachegriffin-1017	org.apache.griffin	closed	2018-Aug-30 06:13:59
orgapacheignite-1430	org.apache.ignite	closed	2018-Sep-25 09:45:13
orgapachemesos-1232	org.apache.mesos...	closed	2018-Aug-21 19:12:40
orgapachemesos-1233	org.apache.mesos...	closed	2018-Aug-24 16:36:17
orgapachepulsar-1029	org.apache.pulsar	closed	2018-Oct-10 12:34:30
orgapacheratis-1007	org.apache.ratis	closed	2018-Oct-08 14:09:51
orgapacheservicecomb-1318	org.apache.serv...	closed	2018-Jul-23 05:55:29
orgapacheskywalking-1022	org.apache.sky...	closed	2018-Oct-06 08:47:51

**orgapachegriffin-1017**

Summary Activity Content

**Repository** orgapachegriffin-1017 (org.apache.griffin)

**Created** Thursday, August 30, 2018 06:07:48 PDT (GMT-0700)

**Updated** Thursday, August 30, 2018 06:13:59 PDT (GMT-0700)

**URL** <https://repository.apache.org/content/repositories/orgapachegriffin-1017>

**Activity** Last operation completed successfully

**Owner** lionelliu (216.113.160.77)

**User-Agent** Apache-Maven/3.2.1 (Java 1.8.0\_131; Linux 4.4.0-104-generic), Apache-Maven/3.2.1 (Java 1.8.0\_131; L

**Description**

done

Save Discard

## Mark the version as released in Jira

1. Go to <https://issues.apache.org/jira/projects/GEODE?selectedItem=com.atlassian.jira.jira-projects-plugin:release-page>
2. Click on the ... to get the Actions pop-up menu for the version you are releasing
3. Click **Release** (note: you must be in the Jira Administrators group to do this, ask on the dev list if you are not).
4. While you're in there, add the next patch release (i.e. if you are releasing x . y . n, add x . y . n+1)

## Transition JIRA issues fixed in this release from Resolved Closed

1. List all the JIRAs with fix version as the release version and status as resolved.

**Search**

Geode ▾ Type: All ▾ Resolved ▾ Assignee: All ▾  More ▾ 🔍 [Advanced](#)

Fix Version: 1.8.0 ▾ ✕

2. Using bulk operations transition to closed state.

**Bulk Change:**  
all 60 issue(s)

## Bulk Operation

- **Choose Issues**
- Choose Operation
- Operation Details
- Confirmation

### Step 1 of 4: Choose Issues

[Cancel](#)



T

Patch Info

Key



GEODE-5846



GEODE-5828

## Bulk Operation

- **Choose Issues**  
Selected **60** issues from **1** project(s)
- **Choose Operation**
- Operation Details
- Confirmation

### Step 2 of 4: Choose Operation

Choose the operation you wish to perform



Edit Issues

N/A

Move Issues



Transition Issues

N/A

Delete Issues

## Bulk Operation

- Choose Issues  
Selected **60** issues from 1 project(s)
- Choose Operation
- **Operation Details**
- Confirmation

### Step 3 of 4: Operation Details

Select the workflow transition to execute on the associated issues.

Workflow: patch-available, re-open possible

#### Available Workflow Actions

- ☐ Reopen Issue
- ☒ **Close Issue**

## Publish to GitHub

1. Go to <https://github.com/apache/geode/tags>
2. Locate (but do not click on) the row with the final release tag (e.g. rel/v1.13.0)
3. Click on the 2nd "... " menu (the one to the right of the Verified bubble), then **Create release**.
4. "Existing tag" should be selected.
5. Fill in Release Title e.g. Apache Geode 1.13.0.
6. Describe the release:
  - a. Copy the summary sentence from the [release notes](#).
  - b. Add the SHA256 (e.g. from the directory you ran the release scripts, `cat release-1.13.0-workspace/geode/geode-assembly/build/distributions/apache-geode-1.13.0.tgz.sha256`).
  - c. Add a link to the release notes. Example:

#### Sample Release Description

This release contains some new gfsh commands and support for SNI as well as a number of improvements and bug fixes.

sha256 for apache-geode-1.13.0.tgz is  
8caf6dcafa5c6bb7c10dc7d512d0569dd16e463e01c18997118e20a5f43e6097

See full release notes at <https://cwiki.apache.org/confluence/display/GEODE/Release+Notes#ReleaseNotes-1.13.0>

7. Click where it says "Attach binaries" and upload the Apache Geode .tgz (found in the directory you ran the release scripts under `release-1.13.0-workspace/geode/geode-assembly/build/distributions/apache-geode-1.13.0.tgz`)
8. Click the green **Publish Release** button.

## Publish javadocs and documentation to the website

Ask on the dev list if you need help with these steps.

1. Keep only the latest patch release of each of the 3 most recent minors (including the one you're about to release) on <https://geode.apache.org/releases/>
2. Build website from sources as described in [geode-site/website/README.md](#).
3. In the generated site, create the directory `geode-site/content/releases/latest`.
4. Obtain a copy of the javadoc directory from the binary release and put it in the `geode-site/content/releases/latest` directory (link from the website's Docs landing page points to `./releases/latest/javadoc`).
5. Deploy the generated site by checking it into the `asf-site` branch of the `apache-geode` repo.

## Final checks

(note: These steps are also covered by the "Final steps" printed at the end of `promote_rc`)

1. Confirm that your brew PR has been merged or closed and `brew install apache-geode` picks up the new release. Note: this may take overnight...no need to hold the release announcement just for brew.

```
brew uninstall apache-geode
brew install apache-geode
gfsh version
```

2. Check that docs for the version you are releasing appear on <https://geode.apache.org/docs/>
3. Check that download detail for the version you are releasing appear on <https://geode.apache.org/releases/>
4. Check that the release tag appears as "Verified" in <https://github.com/apache/geode/tags> (if not, see last step in [Permissions and Keys](#))

## Ask for a volunteer to update dependencies on develop (major/minor only)

Now is the best time to bump dependency versions on develop for the various 3rd-party libraries used by Geode. Start a DISCUSS thread asking for a volunteer to lead this effort.

To: [dev@geode.apache.org](mailto:dev@geode.apache.org)

Subject: [DISCUSS] Volunteer to update 3rd-party libraries used by GEODE

```
Hello Apache Geode Community,

It's time to update the 3rd-party libraries used by GEODE. We need a volunteer to take on this responsibility.

https://github.com/apache/geode/blob/develop/dev-tools/dependencies/README.md describes how to carry out this task.

It would be awesome to get this done within the next few weeks, to allow plenty of time to shake out any issues before the next release.

Regards,
{Release Manager} on behalf of the Apache Geode team
```

## Remove old unsupported branches (major/minor only)

Geode's N-2 support policy allows patch releases to be proposed for its 3 most recent minors, e.g. on the day 1.15.0 is released, 1.12 would become no longer supported. But this is not set in stone, so it's probably wise to start a discussion on the dev list before just running this command!

1. remove 1.<N-3> support branch, pipelines and RC tags:

```
geode/dev-tools/release/end_of_support.sh -v 1.{N-3}
```

Note that `end_of_support` is a **destructive** command. It will prompt you to continue, then will delete the branch and pipeline. If run by accident, these can be restored by re-flying the pipeline and re-pushing the branch (if you or someone has an up-to-date local copy, otherwise google `git reflog` for more ways to recover a deleted branch).

## Send the announce mail

The template for this email was output at the end of `promote_rc`, or you can re-generate it using `geode/dev-tools/release/print_announce_email.sh`. Consider customizing the generated text if there are more upcoming releases (or even waiting and combining the announcements) or if there are notable fixes worth highlighting after the generic "contains a number of fixes".

\*\*\* **Important:** Send the email from your apache email ID\*\*\* (otherwise [announce@apache.org](mailto:announce@apache.org) will bounce. See <https://infra.apache.org/committer-email.html> for how to send email from your apache email address)

\*\*\* **Important:** Send the email as plain text\*\*\* (otherwise [announce@apache.org](mailto:announce@apache.org) will reject the email. If using gmail, at the bottom of the compose window, click the three-dot menu then click Plain text mode)

Example:

To: [user@geode.apache.org](mailto:user@geode.apache.org), [announce@apache.org](mailto:announce@apache.org), [dev@geode.apache.org](mailto:dev@geode.apache.org)

Subject: [ANNOUNCE] Apache Geode {version e.g. 1.13.0}

```
The Apache Geode community is pleased to announce the availability of
Apache Geode {version e.g. 1.13.0}.

Apache Geode is a data management platform that provides a database-like
consistency model, reliable transaction processing and a shared-nothing
architecture to maintain very low latency performance with high concurrency
```

processing.

Geode {version e.g. 1.13.0} contains a number of improvements and bug fixes. It includes performance improvements in OQL order-by and distinct queries in client/server when security is enabled. New GFSH commands were added to get/set cluster config and to destroy gateway receivers. A new post processor was added to the new client protocol. Pulse now supports legacy SSL options. Auto-reconnecting members no more reuse old addresses and IDs. Duplicated or member-specific receivers are removed from cluster config during rolling upgrades. Users are encouraged to upgrade to the latest release.

For the full list of changes please review the release notes:

<https://cwiki.apache.org/confluence/display/GEODE/Release+Notes#ReleaseNotes-{version e.g. 1.13.0}>

The release artifacts can be downloaded from the project website:

<https://geode.apache.org/releases/>

The release documentation is available at:

[https://geode.apache.org/docs/guide/{version eg. 113}/about\\_geode.html](https://geode.apache.org/docs/guide/{version eg. 113}/about_geode.html)

We would like to thank all the contributors that made the release possible.

Regards,

{Release Manager} on behalf of the Apache Geode team