# **Release Procedure**

### **Abstract**

Warning

- This page only gives a brief step of Weex release, always reference the release policy of ASF if you have questions or confusions.
- Content of this page aimed at Weex release manager, PPMCs and committers of Weex. End-users may consider using the
  artifacts of Weex release directly.
- Release must be voted before publishing according to the ASF's policy.
- Release are always about source code, binary is only published for users' convenience.

This page describes the steps of Weex release under ASF policy.

Releases are, by definition, anything that is published beyond the group that owns it. A release is normally conducted by a release manager who is a committer or PPMC member of Weex.

# Before start

# Prepare environment

To generate and compile a weex release, you need to set up the following environment:

- Weex build environment, which includes Android, iOS, JS, C++ toolchains.
- OpenPGP environment, which is used to generate signature and checksum for release candidate. Please note that OpenPGP is not the same as your ssh key though both of them may use the same cryptography algorithm. You may simply use brew install gpg to install tools and setup your key pair by gpg --full-gen-key.

#### Create release branch

The release branch should be named to release/xxx, like release/0.24. Then the release manager should push the release branch to the remote repository.

Tip

Normally, developers should create a release branch based on the latest commit of master. One can also break this rule if you have proper reasons, like there is an unstable commit in master.

### Request buy-in

Remember to send an email to dev@weex.apache.org to see that if there is any has any reason to postpone your release.

I'd like to start a release for Weex 0.xxxxxxx based on release/xxxxxxxxx branch.

Does anyone have any reason to delay a Weex release? Any vital patches needs to be merged?

If not, I will start the release process tomorrow.

# Release candidate

Release Candidates are packages that have been proposed for approval as a release but have not yet been approved by the project.

### Generate release candidate

Release manager could invoke scripts/apache\_release.sh \$RELEASE\_CANDIDATE \$TAG\_OF\_LATEST\_RELEASE to generate a release candidate. The explanation of the variable is listed below:

• \$RELEASE\_CANDIDATE The full-name of the release candidate, like 0.24.0-RC3

• \$TAG\_OF\_LATEST\_RELEASE Weex tag of last release, like 0.19.0.2. RELEASE\_NOTE.md came from the difference between \$RELEASE\_CANDI DATE and \$TAG\_OF\_LATEST\_RELEASE.

The above script will do following things for the release manager:

- 1. Generate RELEASE\_NOTE.md based on the history of git commit and CHANGELOG.md.
- 2. Create a temp directory named apache\_release\_temp and copy files related to the release to this dir. Files like test file, local configure files, build directory, week playground and etc. are exclude from a release by this script.
- 3. Run Apache Rat, which is a release audit tool used for check license and output the result to RELEASE\_AUDIT.LOG
  - You can execute Apache rat by java -jar scripts/apache-rat-0.12.jar \$RELEASE\_CANDIDATE\_DIRECTORY
- 4. Create a tarball, signature and checksum for your release.

Release manager should always check the following things before you move to the next step:

- 1. Check RELEASE AUDIT.LOG to see if there is any license problems in your release candidate.
- 2. Go to apache\_release\_temp and verify you can compile it from source by running scripts/build\_from\_source.sh

### Publish release candidate

### Warning

- The procedure below may not work well if the release manager is not a PPMC member of Weex as it needs to publish
  artifact with the privilege of PPMC. If this is the case, please contact one of the PPMC member and ask him/her to execute
  the following script for you with the following information:
  - The tarball of the source file, like apache-weex-incubating-xxxxx-xxxxx-src.tar.gz
  - $^{\circ} \ \textit{The signature of the source file, like} \ \texttt{apache-weex-incubating-xxxxx-xxxxx-src.tar.gz.asc}$
  - The checksum of the source file, like apache-weex-incubating-xxxxx-xxxxx-src.tar.gz.sha512
  - $\circ$  The KEYS as a result of gpg  $\,$  --list-sigs && gpg  $\,$  --armor  $\,$  --export  $\,$  >> KEYS  $\,$
- Remeber to append your public-key info to KEYS file in repository https://dist.apache.org/repos/dist/release/incubator/weex and https://dist.apache.org/repos/dist/dev/incubator/weex within the help of PPMC member.

Release manager could invoke scripts/publish\_release\_candidate.sh \$RELEASE\_CANDIDATE\_PREFIX \$RELEASE\_CANDIDATE\_SUFFIX \$GIT\_REMOTE to publish a release candidate. The explanation of the variable is listed below:

- \$RELEASE\_CANDIDATE\_PREFIX, Weex release candidate prefix, like 0.24.0
- \$RELEASE\_CANDIDATE\_SUFFIX, The release candaidate suffix, like RC3
- \$GIT\_REMOTE The name of your Github repository, like github-Apache whose URL should be git@github.com:apache/incubator-weex.git. You can view .git/config file to find the name of your repository.

The above script will do following things for the release manager:

- 1. Push git tag with the name \${RELEASE\_CANDIDATE\_PREFIX}-\${RELEASE\_CANDIDATE\_SUFFIX} to \${GIT\_REMOTE} repository.
- 2. Push the release candidate to https://dist.apache.org/repos/dist/dev/incubator/weex/

### Call a vote in PPMC

### Warning

- All the links in your emails must be https instead of http.
- It's recommendation that release manager should send email during release with him/her Apache email account instead of personal account.

#### **Start Vote**

Release manager should call a vote for your release in dev@weex.apache.org. To get the vote passed, you need three positive vote(namely +1 binding vote) and more positive vote than negative vote(namely -1).

Tip

- In general community members are encouraged to vote, but their votes are only advisory. Only PMC members have formally binding vote.
- Though there are no vetoed in release vote, but negative vote should be considered seriously by the release manager.
- It is really normal that your release candidate failed in the vote. Don't re frustrated. Read the message that makes you fail
  and try to fix them. Then start another release vote like RC2, RC3 and so on.

One may reference the following email template:

```
Subject: [VOTE] Release Apache Weex (Incubating) XXXXXXXXX-RCX
```

I am going to call a vote for release Apache Weex (Incubating) XXXXXX-RCXXXXXX

- \* Git tag for this Release:
- \* The source tarball could be found at :
- $^{\star}$  The signature of the source tarball could be found at :
- $^{\star}$  The SHA-512 checksum of the source tarball could be found at :
- \* The source tarball is signed with Key: XXXXXXXXXXXXXXXXXXXXXXX, which could be found in the key file:
- \* ChangeLog about this version:

One can build the binary from source according to XXXXXXXXXXXXXX

This vote will remain open for at least 72 hours, until we get enough votes. Please vote on releasing this RC.

```
[ ] +1 approve
[ ] +0 no opinion
[ ] -1 disapprove (and reason why)
```

#### Close the vote

If your vote passed and the vote itself last over 72 hours. You can close the vote by sending another email to dev@weex.apache.org.

```
Subject: [RESULT][VOTE] Release Apache Weex (Incubating) XXXXXXXXXX-RCX
```

The vote for release Apache Weex (Incubating) XXXXXXXXXXX has passed with XXXXXXXXXXX +1 binding votes and XXXXXXXXXXX -1 vote.

- \* +1 vote:
  - \* XXXXXXXXXXX (binding)
  - \* XXXXXXXXXXX (binding)
  - \* XXXXXXXXXXXX (not binding)
- \* +0 vote:
  - \* XXXXXXXXXXX (binding)
  - \* XXXXXXXXXXX (binding)
  - \* XXXXXXXXXXXX (not binding)
- \* -1 vote:
  - \* XXXXXXXXXXX (binding)
  - \* XXXXXXXXXXX (binding)
  - \* XXXXXXXXXXXX (not binding)

Vote Thread: XXXXXXXXXXXXXXXXXXX

Tip

- You can use Apache mailing list archives to find the link of your vote thread.
- If you vote don't get passed, you can start another vote directly without sending the email of closing vote. Of course, you
  can still send an email to close the vote even if it don't get passed. It's all your choice. Either way is acceptable.

# Call a vote in IPMC

After your vote passed in dev@weex.apache.org, release manager should bring this to general@incubator.apache.org. The vote rules are similar to vote in PPMC, where only difference are that only Incubator PMC votes are binding.

Warning

A Release vote must be passed by PPMC and IPMC in order.

One may reference the following email template:

```
Subject: [VOTE] Release Apache Weex (Incubating) XXXXXXXXX-RCX
```

The Apache Weex community has voted and approved the proposal to release Apache Weex (Incubating) version XXXXXXXXXXXXXXX, we now kindly request the Incubator PMC members to review and vote on this incubator release.

- \* Vote thread:
- \* Vote result thread:
- \* Git tag for this Release:
- \* The source tarball could be found at :
- \* The signature of the source tarball could be found at :
- \* The SHA-512 checksum of the source tarball could be found at :
- \* The source tarball is signed with Key: XXXXXXXXXXXXXXXXXXXXXXX, which could be found in the key file:
- \* ChangeLog about this version:

This vote will remain open for at least 72 hours, until we get enough votes. Please vote on releasing this RC.

```
[ ] +1 approve
[ ] +0 no opinion
[ ] -1 disapprove (and reason why)
```

#### **Close Vote**

Similarly, release manager need to close the vote if it get passed the vote itself last over 72 hours. Please remember send the email of closing vote to gene ral@incubator.apache.org and dev@weex.apache.org together.

# Official release

Releases are packages that have been approved for general public release, with varying degrees of caveat regarding their perceived quality or potential for change.

In order to make your release official, here are the next steps.

### Publish release

#### Warning

The procedure below may not work well if the release manager is not a PPMC member of Weex as it needs to publish artifact with the privilege of PPMC. If this is the case, please ask help from one of the PPMC member.

Release manager could invoke scripts/publish\_release\_official.sh \$RELEASE\_CANDIDATE\_PREFIX \$RELEASE\_CANDIDATE\_SUFFIX \$TAG\_OF\_LATEST\_RELEASE \$GIT\_REMOTE \$GITHUB\_PERSONAL\_TOKEN \$JCENTER\_TOKEN to publish the release officially. The explanation of the variable is listed below:

- \$RELEASE\_CANDIDATE\_PREFIX, Weex release candidate prefix, like 0.24.0
- SRELEASE CANDIDATE SUFFIX, The release candidate suffix, like RC3
- \$TAG\_OF\_LATEST\_RELEASE Weex tag of last release, like 0.19.0.2. RELEASE\_NOTE.md came from the difference between \${RELEASE\_CANDIDATE\_PREFIX}-\${RELEASE\_CANDIDATE\_SUFFIX} and \$TAG\_OF\_LATEST\_RELEASE.
- \$GIT\_REMOTE The name of your Github repository, like github-Apache whose URL should be git@github.com:apache/incubator-weex.
- \$GITHUB\_PERSONAL\_TOKEN The personal access token of your github Account, which should have write privilege to git@github.com: apache/incubator-weex.git. The personal access token is used to publish Github Release
- \$JCENTER\_TOKEN The private key for JCenter, which is the distribution channel for Android

The above script will do following things for the release manager:

- 1. Generate  ${\tt RELEASE\_NOTE.md}$  based on the history of git commit and  ${\tt CHANGELOG.md}$ .
- 2. Download release candidate from https://dist.apache.org/repos/dist/dev/incubator/weex/\${RELEASE\_CANDIDATE\_PREFIX} /\${RELEASE\_CANDIDATE\_SUFFIX}, rename it to apache-weex-incubating-\${\$RELEASE\_CANDIDATE\_PREFIX}-src.tar.gz, then upload it to https://dist.apache.org/repos/dist/release/incubator/weex/
- 3. Push git tag named \${RELEASE\_CANDIDATE\_PREFIX} to \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release with \${GIT\_REMOTE} repository and generate a corresponding Github Release
- 4. Publish the convenience binary of Android to JCenter with your \${JCENTER\_TOKEN}. You can see the JCenter token if you are a PPMC member of Weex.

#### Warning

The convenience binary of iOS can only be published manually now.

You should also archive your old release by deleting them from https://dist.apache.org/repos/dist/release/incubator/weex/ once your latest release is published according to ASF' release policy.

# Update website

Please remember update the website with your latest release information and correct link.

Warning

- The download link of the latest release source must be provided in the format of mirror, like https://www.apache.org/dyn/closer.cgi?filename=incubator/weex/\${RELEASE\_CANDIDATE\_PREFIX}/apache-weex-incubating-\${RELEASE\_CANDIDATE\_PREFIX}-src.tar.gz&action=download according to ASF' policy.
- As the old release is archived, you should probably update the link of your previous release to new address like, https://archive.apache.org/dist/incubator/weex/\${PREVIOUS\_RELEASE}/apache-weex-incubating-\${PREVIOUS\_RELEASE}-src.tar.gz

Tip

- Remember to move old latest version to Archived Release section.
- The version information like pod version in Github Page will get updated within 24 hours automatically. Please be
  patient.

### Announce it

You are almost there. Just send an email to dev@weex.apache.org to announce it.

Subject: [ANNOUNCEMENT] Weex XXXXXXXXXXXXX Released

Weex XXXXXXXXXXXX is released now, one can download source or convenience binary through the link in our website [1].

[1] https://weex.apache.org/download/download.html#latest-release