

# Releasing collections with release branches

Collections MUST follow the [semantic versioning](#) rules. See [ref:releasing\\_collections](#) for high-level details.

**System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\community\collection\_contributors\ansible-devel) (docs) (docsite) (rst) (community) (collection\_contributors)collection\_release\_with\_branches.rst, line 6);  
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## Release planning and announcement

1. Announce your intention to release the collection in a corresponding pinned release issue/community pinboard of the collection and in the `#ansible-community` [Matrix/IRC channel](#). Repeat the announcement in any other dedicated channels if they exist.
2. Ensure all the other repository maintainers are informed about the time of the following release.

## Releasing major collection versions

The new version is assumed to be `x.0.0`.

1. If you are going to release the `community.general` and `community.network` collections, create new `backport-X` and `needs_backport_to_stable_x` labels in the corresponding repositories. Copy the styles and descriptions from the corresponding existing labels.
2. Ensure you are in a default branch in your local fork. These examples use `main`.

```
git status
git checkout main      # if needed
```

3. Update your local fork:

```
git pull --rebase upstream main
```

## Creating the release branch

1. Create a branch `stable-X`. Replace `X` with a correct number and push it to the **upstream** repository, NOT to the origin.:

```
git branch stable-X main
git push upstream stable-X
```

2. Create and checkout to another branch from the `main` branch:

```
git checkout -b update_repo
```

3. Update the version in `galaxy.yml` in the branch to the next **expected** version, for example, `x.1.0`.

## Creating the changelogs

1. Replace `changelogs/changelog.yml` with:

```
ancestor: X.0.0
releases: {}
```

2. Remove all changelog fragments from `changelogs/fragments/`. Removing the changelog fragments ensures that every

- major release has a changelog describing changes since the last major release.
- Add and commit all the changes made. Push the branch to the `origin` repository.
- Create a pull request in the collection repository. If CI tests pass, merge the pull request since the `main` branch is expecting changes for the next minor/major versions
- Switch to the `stable-X` branch.
- In the `stable-X` branch, ensure that `galaxy.yml` contains the correct version number `X.0.0`. If not, update it.
- In the `stable-X` branch, add a changelog fragment `changelogs/fragments/X.0.0.yml` with the content:

```
release_summary: |-
  Write some text here that should appear as the release summary for this version.
  The format is reStructuredText, but not a list as for regular changelog fragments.
  This text will be inserted into the changelog.
```

For example:

```
release_summary: This is release 2.0.0 of ``community.foo``, released on YYYY-MM-DD.
```

- In the `stable-X` branch, generate the changelogs:
- ```
antsibull-changelog release --cumulative-release
```
- In the `stable-X` branch, verify that the `CHANGELOG.rst` looks as expected.
  - In the `stable-X` branch, update `README.md` so that the changelog link points to `/tree/stable-X/` and no longer to `/tree/main/`, and change badges respectively, for example, in case of AZP, add `?branchName=stable-X` to the AZP CI badge ([https://dev.azure.com/ansible/community.xxx/\\_apis/build/status/CI?branchName=stable-X](https://dev.azure.com/ansible/community.xxx/_apis/build/status/CI?branchName=stable-X)).
  - In the `stable-X` branch, add, commit, and push changes to `README.md`, `CHANGELOG.rst` and `changelogs/changelog.yml`, and potentially deleted/archived fragments to the **upstream** repository, NOT to the `origin`.

## Publishing the collection

- In the `stable-X` branch, add an annotated tag to the last commit with the collection version `X.0.0`. Pushing this tag to the upstream repository will make Zuul publish the collection on [Ansible Galaxy](#).

```
git tag -n # see current tags and their comments
git tag -a NEW_VERSION -m "comment here" # the comment can be, for example, "community.foo: 2.0.0"
git push upstream NEW_VERSION
```

- Wait until the new version is published on the collection's [Ansible Galaxy](#) page. It will appear in a list of tarballs available to download.
- Add a GitHub release for the new tag. The title should be the version and content, such as - See <https://github.com/ansible-collections/community.xxx/blob/stable-X/CHANGELOG.rst> for all changes.
- Announce the release through the [Bullhorn Newsletter](#).
- Announce the release in the pinned release issue/community pinboard of the collection and in the [#ansible-community Matrix/Libera.Chat IRC channel](#).
- In the `stable-X` branch, update the version in `galaxy.yml` to the next **expected** version, for example, `X.1.0`. Add, commit and push to the **upstream** repository.

## Releasing minor collection versions

The new version is assumed to be `X.Y.0`. All changes that should go into it are expected to be previously backported from the default branch to the `stable-X` branch.

## Creating the changelogs

- In the `stable-X` branch, make sure that `galaxy.yml` contains the correct version number `X.Y.0`. If not, update it.
- In the `stable-X` branch, add a changelog fragment `changelogs/fragments/X.Y.0.yml` with content:

```
release summary: |-
  Write some text here that should appear as the release summary for this version.
  The format is reStructuredText, but not a list as for regular changelog fragments.
  This text will be inserted into the changelog.
```

- In the `stable-X` branch, run:

```
antsibull-changelog release
```

- In the `stable-X` branch, verify that `CHANGELOG.rst` looks as expected.
- In the `stable-X` branch, add, commit, and push changes to `CHANGELOG.rst` and `changelogs/changelog.yml`, and potentially deleted/archived fragments to the **upstream** repository, NOT to the `origin`.

## Publishing the collection

1. In the `stable-X` branch, add an annotated tag to the last commit with the collection version `X.Y.0`. Pushing this tag to the upstream repository will make Zuul publish the collection on [Ansible Galaxy](#).

```
git tag -n # see current tags and their comments
git tag -a NEW_VERSION -m "comment here" # the comment can be, for example, "community.foo: 2.1.0"
git push upstream NEW_VERSION
```

2. Wait until the new version is published on the collection's [Ansible Galaxy](#) page. The published version will appear in a list of tarballs available to download.
3. Add a GitHub release for the new tag. The title should be the version and content, such as - See <https://github.com/ansible-collections/community.xxx/blob/stable-X/CHANGELOG.rst> for all changes.
4. Announce the release through the [Bullhorn Newsletter](#).
5. Announce the release in the pinned release issue/community pinboard of the collection and in the [#ansible-community Matrix/IRC channel](#). Additionally, you can announce it using GitHub's Releases system.
6. In the `stable-X` branch, update the version in `galaxy.yml` to the next **expected** version, for example, if you have released `X.1.0`, the next expected version could be `X.2.0`. Add, commit and push to the **upstream** repository.
7. Checkout to the `main` branch.
8. In the `main` branch:

1. If more minor versions are released before the next major version, update the version in `galaxy.yml` to `X.(Y+1).0` as well. Create a dedicated pull request and merge.
2. If the next version will be a new major version, create a pull request where you update the version in `galaxy.yml` to `(X+1).0.0`. Note that the sanity tests will most likely fail since there will be deprecations with removal scheduled for `(X+1).0.0`, which are flagged by the tests.

For every such deprecation, decide:

- Whether to remove them now. For example you remove the complete `modules/plugins` or you remove redirects.
- Whether to add ignore entries to the corresponding `tests/sanity/ignore-*.txt` file and create issues, for example for removed features in `modules/plugins`.

Once the CI tests pass, merge the pull request. Make sure that this pull request is merged not too much later after the release for `version_added` sanity tests not to expect the wrong version for the new feature pull request.

### Note

It makes sense to already do some removals in the days before the release. These removals must happen in the `main` branch and must not be backported.

## Releasing patch versions

The new version is assumed to be `X.Y.Z`, and the previous patch version is assumed to be `X.Y.z` with `z < Z`. `z` is frequently `0` since patch releases are uncommon.

### Releasing when more minor versions are expected

1. Checkout the `X.Y.z` tag.
2. Update `galaxy.yml` so that the version is `X.Y.Z`. Add and commit.
3. Cherry-pick all changes from `stable-X` that were added after `X.Y.z` and should go into `X.Y.Z`.
4. Add a changelog fragment `changelogs/fragments/X.Y.Z.yml` with content:

```
release_summary: |-
  Write some text here that should appear as the release summary for this version.
  The format is reStructuredText but not a list as for regular changelog fragments.
  This text will be inserted into the changelog.
```

Add to git and commit.

5. Generate the changelogs.

```
antsibull-changelog release
```

6. Verify that `CHANGELOG.rst` looks as expected.
7. Add and commit changes to `CHANGELOG.rst` and `changelogs/changelog.yml`, and potentially deleted/archived fragments.

## Publishing the collection

1. Add an annotated tag to the last commit with the collection version `X.Y.Z`. Pushing this tag to the upstream repository will make Zuul publish the collection on [Ansible Galaxy](#).

```
git tag -n      # see current tags and their comments
git tag -a NEW_VERSION -m "comment here"      # the comment can be, for example, "community.foo: 2.1.1"
git push upstream NEW_VERSION
```

2. Wait until the new version is published on the collection's [Ansible Galaxy](#) page. It will appear in a list of tarballs available to download.
3. Add a GitHub release for the new tag. The title should be the version and content, such as - See <https://github.com/ansible-collections/community.xxx/blob/stable-X/CHANGELOG.rst> for all changes.

#### Note

The data for this release is only contained in a tag, and not in a branch, in particular not in `stable-X`. This is deliberate, since the next minor release `X.(Y+1).0` already contains the changes for `X.Y.Z` as well, since these were cherry-picked from `stable-X`.

4. Announce the release through the [Bullhorn Newsletter](#).
5. Announce the release in the pinned release issue/community pinboard of the collection and in the `#ansible-community` Matrix/IRC channel <<https://docs.ansible.com/ansible/devel/community/communication.html#real-time-chat>>.

### Releasing when no more minor versions are expected

1. In the `stable-X` branch, make sure that `galaxy.yml` contains the correct version number `X.Y.Z`. If not, update it!
2. In the `stable-X` branch, add a changelog fragment `changelogs/fragments/X.Y.Z.yml` with content:

```
release summary: |-
  Write some text here that should appear as the release summary for this version.
  The format is reStructuredText, but not a list as for regular changelog fragments.
  This text will be inserted into the changelog.
```

3. Generate the changelogs in the `stable-X` branch.

```
antsibull-changelog release
```

4. In the `stable-X` branch, verify that `CHANGELOG.rst` looks as expected.
5. In the `stable-X` branch, add, commit, and push changes to `CHANGELOG.rst` and `changelogs/changelog.yml`, and potentially deleted/archived fragments to the **upstream** repository, NOT to the origin.

### Publishing the collection

1. In the `stable-X` branch, add an annotated tag to the last commit with the collection version `X.Y.Z`. Pushing this tag to the upstream repository will make Zuul publish the collection on [Ansible Galaxy](#).

```
git tag -n      # see current tags and their comments
git tag -a NEW_VERSION -m "comment here"      # the comment can be, for example, "community.foo: 2.1.1"
git push upstream NEW_VERSION
```

2. Wait until the new version is published on the collection's [Ansible Galaxy](#) page. It will appear in a list of tarballs available to download.
3. Add a GitHub release for the new tag. Title should be the version and content, such as: See <https://github.com/ansible-collections/community.xxx/blob/stable-X/CHANGELOG.rst> for all changes.
4. Announce the release through the [Bullhorn Newsletter](#).
5. Announce the release in the pinned issue/community pinboard of the collection and in the `#ansible-community` Matrix/IRC channel.