



# How we opened up Ansible documentation infrastructure to the community

Don Naro

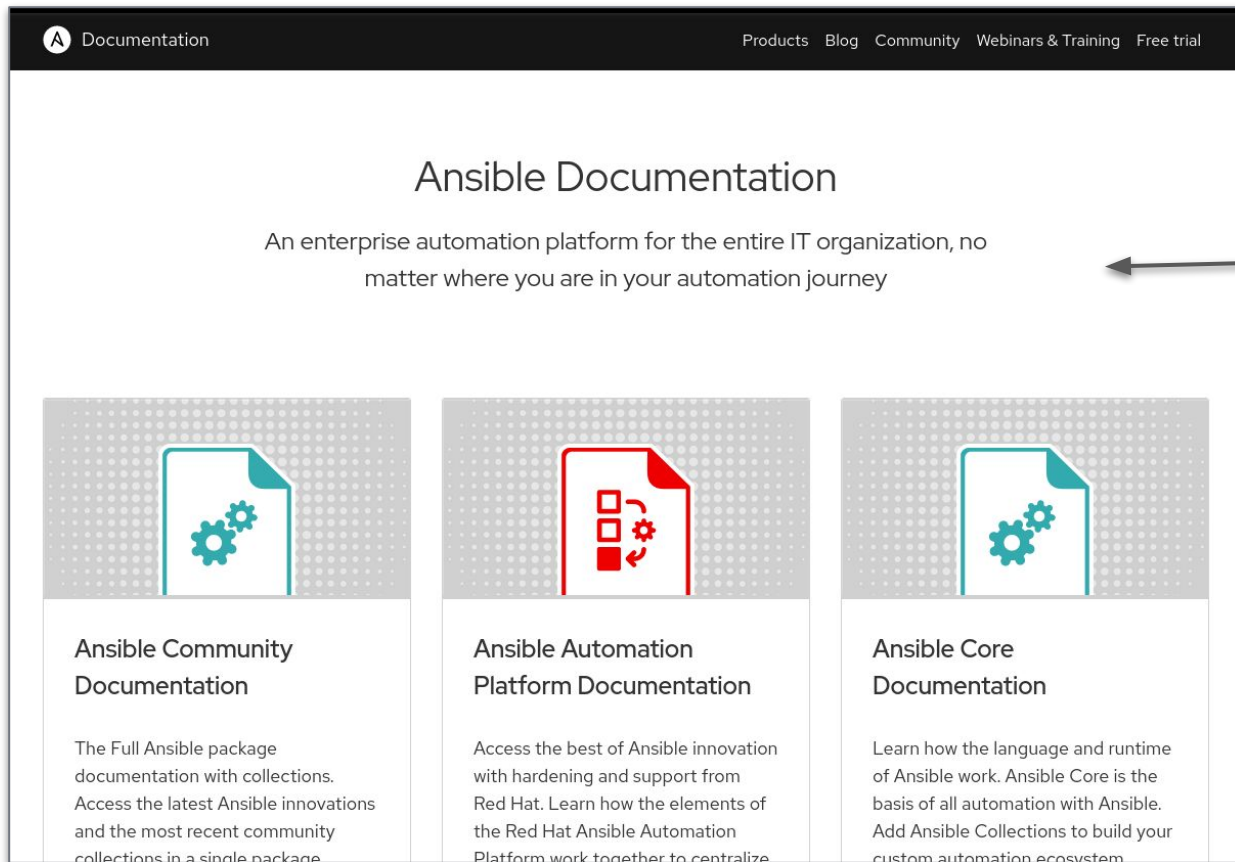
Ansible community and partner engineering at Red Hat

ANSIBLE

- Alicia Cozine
- Felix Fontein
- Lyle McKarns
- Matt Davis
- Matt Clay
- Maxwell G
- Sandra McCann
- Sviatoslav Sydorenko
- Thanh Nguyet Vo (TVo)







The landing pages for docs.ansible.com in May, 2022.

# Fragmentation of multiple docsites



ansible / awx Public

Code Issues 1.3k Pull requests 110 Actions Projects 20 Security Insights

Beta Try the new code view

devel awx / docs / bulk\_api.md Go to file

jainnikhil30 comment everything related to instance group, will add back once 1358... Latest commit 0de7551 on Mar 7 History

2 contributors

101 lines (68 sloc) 5.42 KB

## Bulk API Overview

Bulk API endpoints allows to perform bulk operations

- /api/v2/bulk/job\_launch
- /api/v2/bulk/host\_create

Making individual API calls in rapid succession or at high application's ability to serve is exhausted, clients often

Allowing the client combine actions into fewer requests less time without exhausting Controller's ability to se

Galaxy NG

Galaxy NG

Home Configuration User Guides Integration Contributing Tags Community

Warning

This documentation is a **Work In Progress** some pages are incomplete.

Galaxy NG

Galaxy CI failing

Source Code: [https://github.com/ansible/galaxy\\_ng](https://github.com/ansible/galaxy_ng)

A Pulp plugin to support hosting your very own Ansible Galaxy server.

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For users

## ansible-builder

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### Quick search

## Introduction

Using Ansible content that depends on non-default dependencies can be tricky. Packages must be installed on each node, play nicely with other software installed on the host system, and be kept in sync.

To help simplify this process, we have introduced the concept of Execution Environments, which you can create with Ansible Builder.

## Execution Environments

Execution Environments are container images that serve as Ansible control nodes. Starting in version 2.0, [ansible-runner](#) can make use of these images.

An Execution Environment is expected to contain:

- Ansible
- Ansible Runner

creating an [Execution Environment](#) which content you would like to include collections, Python requirements, and

rough the [CLI Usage](#).

# Every documentation commit had to pass loads of tests



```
docs/docsite/rst/community/documentation_contributions.rst
@@ -93,19 +93,26 @@ To work with documentation on your local machine, you need to have python-3.9 or
93 93  .. _Ansible dependencies: https://github.com/ansible/ansible/blob/devel/requirements.txt
94 94  .. _documentation dependencies: https://github.com/ansible/ansible/blob/devel/docs/docsite/requirements.txt
95 95
96 96  - .. code-block:: bash
97 97  + Drop the ``--user`` option in the following commands if you use a virtual environment (venv/virtenv).
98 98  -     pip install --user -r requirements.txt
99 99  -     pip install --user -r docs/docsite/requirements.txt
100 99  + #. Upgrade pip before installing dependencies (recommended)
101 99  - The :file:`docs/docsite/requirements.txt` file allows a
    packages may cause problems with the Ansible docs build.
    build.requirements.txt` instead, which matches the depend
```

👤 samccann approved these changes on Mar 2, 2023 [View reviewed changes](#)

👤 samccann removed the `needs_triage` label on Mar 2, 2023

👤 samccann merged commit `352010f` into `ansible:devel` on Mar 2, 2023 [Hide details](#) [Revert](#)

86 checks passed

✓	🔧 CI (Remote FreeBSD 13.1 - 3) Remote FreeBSD 13.1 - 3 succeeded	<a href="#">Details</a>
✓	🔧 CI (Remote FreeBSD 13.1 - 4) Remote FreeBSD 13.1 - 4 succeeded	<a href="#">Details</a>
✓	🔧 CI (Remote FreeBSD 13.1 - 5) Remote FreeBSD 13.1 - 5 succeeded	<a href="#">Details</a>
✓	🔧 CI (Remote RHEL 7.9 - 1) Remote RHEL 7.9 - 1 succeeded	<a href="#">Details</a>
✓	🔧 CI (Remote RHEL 7.9 - 2) Remote RHEL 7.9 - 2 succeeded	<a href="#">Details</a>
✓	🔧 CI (Remote RHEL 8.7 - 3) Remote RHEL 8.7 - 3 succeeded	<a href="#">Details</a>
✓	🔧 CI (Remote RHEL 8.7 - 4) Remote RHEL 8.7 - 4 succeeded	<a href="#">Details</a>
✓	🔧 CI (Remote RHEL 8.7 - 5) Remote RHEL 8.7 - 5 succeeded	<a href="#">Details</a>
✓	🔧 CI (Remote RHEL 8.7 - 6) Remote RHEL 8.7 - 6 succeeded	<a href="#">Details</a>

# Community doc initiatives and core ci bumping into each other



**Add code-block wrappers to code examples in playbooks\_filters.rst** • affects\_2.15 docs\_only docs hacktoberfest  
hacktoberfest-accepted small\_patch  
#79093 by mrwacky42 was merged on Oct 10, 2022

**Added code-block wrappers in implicit\_localhost.rst** • affects\_2.15 docs\_only docs hacktoberfest  
hacktoberfest-accepted has\_issue new\_contributor  
#79086 by 12-malak was merged on Oct 10, 2022

**Docs: Add code-block wrappers in lookup.rst & strategy.rst** • affects\_2.15 docs\_only docs hacktoberfest  
hacktoberfest-accepted new\_contributor  
#79048 by dshubhadeep was merged on Oct 5, 2022

**Docs: Add code-block wrappers in faq.rst** • affects\_2.15 docs\_only docs hacktoberfest hacktoberfest-accepted  
new\_contributor  
#79047 by Shellylo was merged on Oct 5, 2022

**Docs: Add codeblocks to test\_strategies doc** • affects\_2.15 docs\_only  
needs\_rebase needs\_revision  
#79045 by shade34321 was merged on Oct 5, 2022

This comment was marked as resolved. Hide comment

webknjaz 2 weeks ago Member  
/azp run

This comment was marked as resolved. Hide comment

azure-pipelines bot 2 weeks ago  
Azure Pipelines successfully started running 1 pipeline(s).

# Manual backports for documentation PRs



## Backportapalooza 04 21 #80600

Merged sivel merged 22 commits into [ansible:stable-2.15](#) from [samccann:backportapalooza-04-21](#)

Conversation 0 Commits 22 Checks 86 Files changed 24

samccann commented on Apr 21, 2023

SUMMARY

Backports the following

[#80461](#)

## Backportapalooza 03 29 #80350

Merged nitzmahone merged 6 commits into [ansible:stable-2.14](#) from [samccann:backportapalooza-03-29](#)

Conversation 0 Commits 6

samccann commented on Mar 29, 2023

SUMMARY

Backports the following docs PRs:

- [#80006](#)
- [#80078](#)
- [#80106](#)
- [#79710](#)
- [#79788](#)
- [#80036](#)
- [#80037](#)
- [#80041](#)
- [#80067](#)
- [#80079](#)
- [#80117](#)
- [#80060](#)
- [#80055](#)
- [#80092](#)
- [#80045](#)
- [#80073](#)
- [#80062](#)

## Backportapalooza 02 16 #80019

Merged sivel merged 2 commits into [ansible:stable-2.14](#) from [samccann:backportapalooza-02-16](#) on Feb 16, 2023

Conversation 1 Commits 2 Checks 86 Files changed 2

## Backportapalooza 03 29 #80350

Merged nitzmahone merged 6 commits into [ansible:stable-2.14](#) from [samccann:backportapalooza-03-29](#) on Mar 29, 2023

Conversation 0 Commits 6

samccann commented on Mar 29, 2023

SUMMARY

Backports the following docs prs:

- [#80210](#)
- [#80211](#)
- [#80054](#)
- [#80234](#)
- [#80338](#)
- [#80340](#)

## Backportapalooza 02 02 #79890

Merged nitzmahone merged 7 commits into [ansible:stable-2.14](#) from [samccann:backportapalooza-02-02](#)

Conversation 0 Commits 7 Checks 86 Files changed 15

samccann commented on Feb 2, 2023

SUMMARY

Backports the following docs PRs:

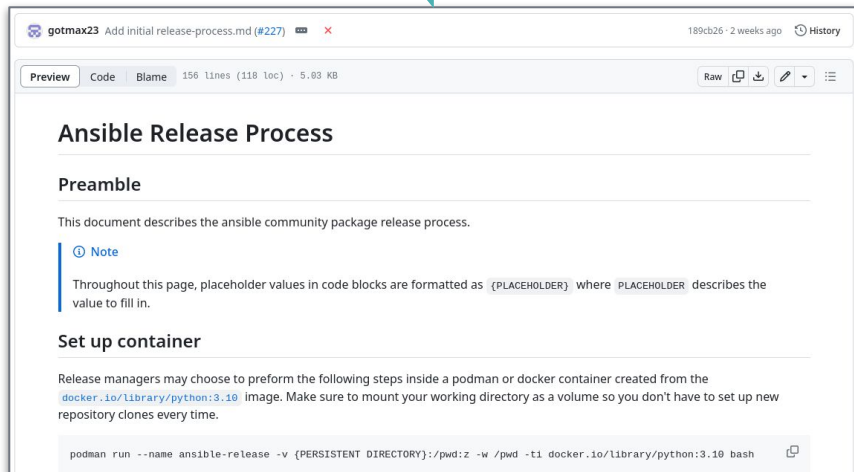
- [#79830](#)
- [#79840](#)
- [#79795](#)
- [#79859](#)
- [#79542](#)
- [#79470](#)
- [#79865](#)



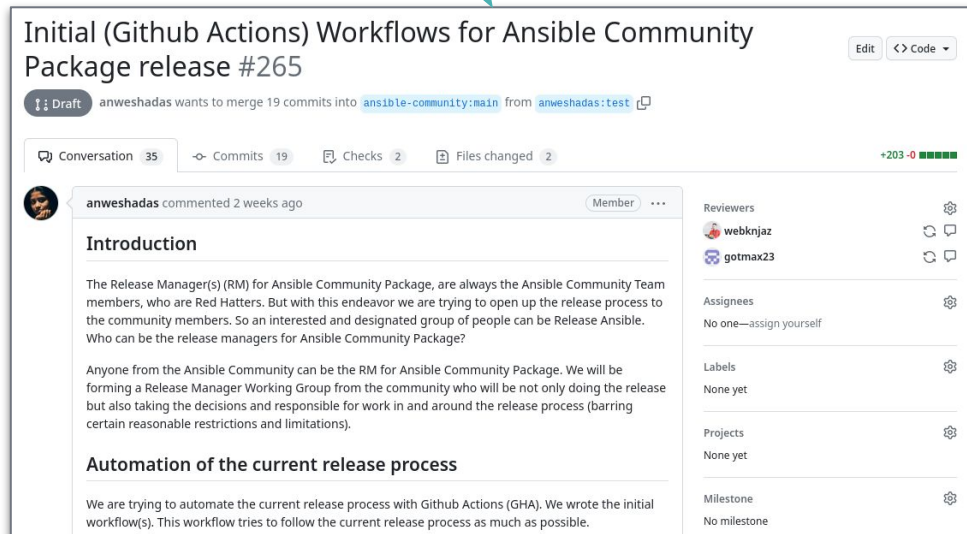
# Community maintainers locked out of the full release process



From documentation

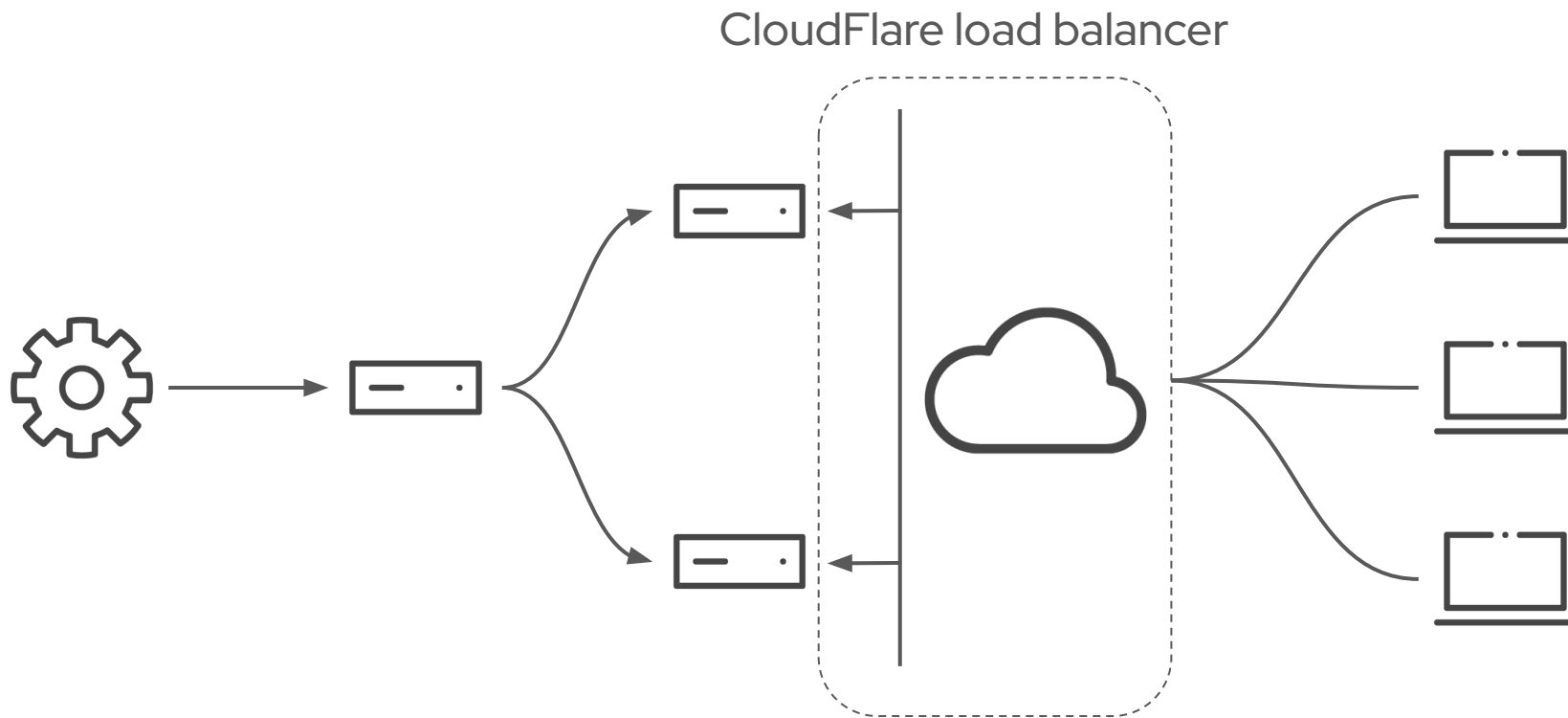


To automation



<https://github.com/ansible-community/ansible-build-data>







# Jenkins

**Parameters**

☒ **BUILD\_TO\_PROD**

"No" builds to docs.testing.ansible.com. "Yes" builds to the production docsite.

**GITHUB\_FORK**

The GitHub fork of the Ansible repo where the branch resides. Defaults to 'ansible' for the ansible/ansible repo.

ansible

**GIT\_BRANCH**

Specify which git branch/revision to build.

stable-2.18

**LANGUAGE**

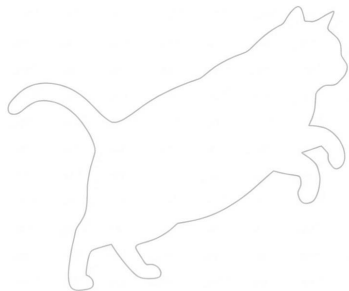
Translated core docs are published at URLs like: docs.ansible.com/ansible/\$VER\_\$LANG/ Default value is English. Select Japanese to publish Japanese language docs.

english

**PACKAGE\_VERSION**

Version for the URLs and the list of collections to include (by passing it to "make webdocs"). Defaults to devel, which passes "" (null value) to "make webdocs".

11



Build exited due to excessive memory consumption

## Build resources

Every build has limited resources assigned to it. Our build limits are:

[Read the Docs for Business](#)

[Read the Docs Community](#)

- 15 minutes build time
- 7GB of memory
- 2 concurrent builds
- 5GB of disk storage (soft limit)

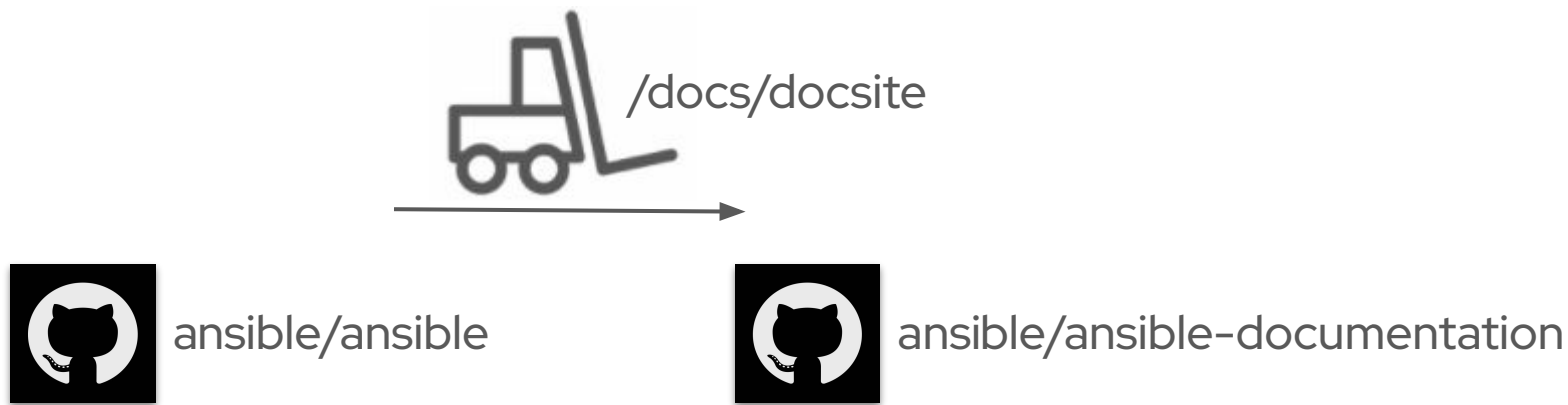
We can increase build time on a per-project basis. Send an email to [support@readthedocs.org](mailto:support@readthedocs.org) providing a good reason why your documentation needs more resources.

If your business is hitting build limits hosting documentation on Read the Docs, please consider [Read the Docs for Business](#) which has options for additional build resources.



<https://docs.readthedocs.com/platform/stable/builds.html#build-resources>





```
with tempfile.TemporaryDirectory() as temp_dir:
    cmd: list[str] = ["git", "clone", args.repo, "--depth=1"]
    if args.branch is not None:
        cmd.append(f"--branch={args.branch}")
    cmd.append(temp_dir)
    subprocess.run(cmd, check=True)

    for keep_dir in keep_dirs:
        src = pathlib.Path(temp_dir, keep_dir)
        dst = pathlib.Path.cwd() / keep_dir

        print(f"Updating {keep_dir!r} ...", file=sys.stderr, flush=True)

        if dst.exists():
            shutil.rmtree(dst)

        shutil.copytree(src, dst, symlinks=True)

        (dst / ".gitignore").write_text("")
```



<https://github.com/ansible/ansible-documentation/blob/devel/docs/bin/clone-core.py>



# A tangle of dependencies



tests/requirements.txt

```
1  jinja2
2  pyyaml
3  resolvelib < 1.1.0
4  sphinx == 5.3.0
5  sphinx-notfound-page
6  sphinx-ansible-theme
7  rstcheck < 6 # rstcheck 6.x has problem with rstcheck.core
8  antsibull-docs == 2.0.0 # currently approved version
```

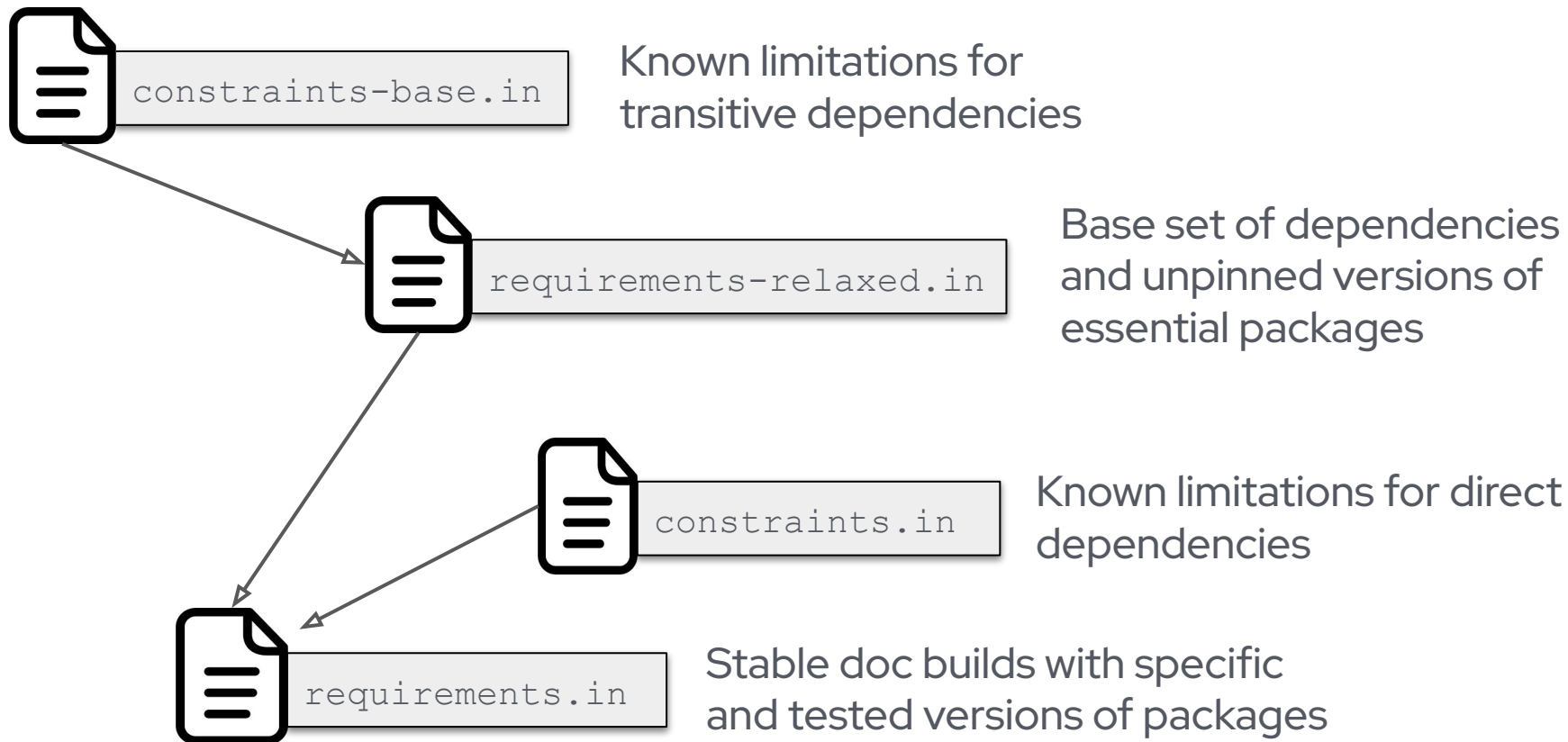
docs/docsite/requirements.txt

```
1  # pip packages required to build docsite
2  # these requirements are as loosely defined as possible
3  # if you want known good versions of these dependencies
4  # use test/sanity/code-smell/docs-build.requirements.txt
5  # instead
6
7  antsibull-docs >= 1.0.0, < 2.0.0
8  docutils
9  jinja2
10 pygments >= 2.10.0
11 pyyaml
12 rstcheck
13 sphinx-notfound-page >= 0.6
14 sphinx-intl
15 sphinx-ansible-theme >= 0.10.2
16 sphinx
17 resolvelib
```



## Goals:


- Keep production builds stable
- Create tested and relaxed dependencies
- Don't force users to install pinned dependencies
- Bump package versions automatically





```
$ nox --list
Sessions defined in ansible-documentation/noxfile.py:


- static -> Run static checkers
- formatters -> Reformat code
- formatters_check -> Check code formatting without making changes
- typing
- spelling -> Spell check RST documentation
- actionlint -> Run actionlint to lint Github Actions workflows.
- zizmor -> Run zizmor, a Github Actions security checker
* lint
- pip-compile(tag) -> Update dependency lockfiles in tests/ directory with uv pip compile.
- pip-compile(formatters) -> Update dependency lockfiles in tests/ directory with uv pip compile.
- pip-compile(pr_labeler) -> Update dependency lockfiles in tests/ directory with uv pip compile.
- pip-compile(requirements) -> Update dependency lockfiles in tests/ directory with uv pip compile.
- pip-compile(pip-compile) -> Update dependency lockfiles in tests/ directory with uv pip compile.
* clone-core -> Clone relevant portions of ansible-core from ansible/ansible into the current
* checkers(docs-build) -> Run docs build checkers
* checkers(rst-yamllint) -> Run docs build checkers
* checkers(rstcheck) -> Run docs build checkers
* make -> Generate HTML from documentation source using the Makefile
- tag -> Check the core repo for new releases and create tags in ansible-documentation
```








**Changes reviewed**  
1 change requested by reviewers with write access.


 1 requested change >


 1 pending review >


**All checks have passed**  
13 successful checks


 Ansible Docsite CI / nox / Run nox formatters\_check session (pull\_request) Successful in 16s ...


 Ansible Docsite CI / nox / Run nox pip-compile session (pull\_request) Successful in 36s ...


 Ansible Docsite CI / nox / Run nox spelling session (pull\_request) Successful in 20s ...


 Ansible Docsite CI / nox / Run nox static session (pull\_request) Successful in 17s ...

 Ansible Docsite CI / nox / Run nox typing session (pull\_request) Successful in 26s ...

 Ansible Docsite CI / nox / Run nox zizmor session (pull\_request) Successful in 16s ...


 docs/readthedocs.org:ansible-core — Read the Docs build succeeded! ...

 Triage Issues and PRs / Label Issue/PR (pull\_request\_target) Successful in 14s ...

**No conflicts with base branch**  
Merging can be performed automatically.

**Squash and merge** ▾ You can also merge this with the command line. [View command line instructions.](#)


Still in progress? [Convert to draft](#)



## Ansible Documentation Bot

GitHub App

This bot is used for managing the <https://github.com/ansible/ansible-documentation> repo.



ansible-documentation-bot

bot


commented 9 hours ago

Contributor

...

Thanks for your Ansible docs contribution! We talk about Ansible documentation on matrix at [#docs:ansible.im](#) and on libera IRC at #ansible-docs if you ever want to join us and chat about the docs! We meet there on Tuesdays (see [the Ansible calendar](#)) and welcome additions to our [weekly agenda items](#) - scroll down to find the upcoming agenda and add a comment to put something new on that agenda.

😊



ansible-documentation-bot

bot

commented 9 hours ago

Contributor

...

Thanks for your contribution, @NilashishC! Please make sure that your pull request includes sufficient and meaningful details in the description.  
PR descriptions provide important context and allow other developers and our future selves to understand a change's rationale and what it actually fixes or accomplishes.

😊

☐  **cache: disclaimer for using cache** ✓ backport-2.18 backport-2.19 backport-2.20

#3168 opened on Oct 20, 2025 by Akasurde • Approved

☐  **[PR #3168/f1967b11 backport][stable-2.20] cache: disclaimer for using cache** ✓

#3441 opened 37 minutes ago by patchback 

☐  **[PR #3168/f1967b11 backport][stable-2.19] cache: disclaimer for using cache** ✓

#3440 opened 38 minutes ago by patchback 

☐  **[PR #3168/f1967b11 backport][stable-2.18] cache: disclaimer for using cache** ✓

#3439 opened 38 minutes ago by patchback 





```
- if: github.ref == 'refs/heads/main'
  name: Build and sync
  run: |
    tox -e docs
    rsync -avz --rsync-path="sudo rsync" ./docs/build/html/ ${ secrets.SSH_USER_DOCS }@${ secrets.SSH_HOST_DOCS }:/var/www/html/ansible-sdk/latest
```




https://ansible.readthedocs.io/en/latest/

Ansible documentation Package documentation Core documentation Join the community

## Ansible Ecosystem

Projects in the Ansible ecosystem let you expand automation to a virtually unlimited set of use cases.



### Ansible Language Server

Ansible Language Server implements language server protocol (LSP) to highlight and check Ansible syntax.

[Ansible Language Server documentation](#)

### Ansible Builder

Ansible Builder lets you create Execution Environments, which are container images that act as Ansible control nodes.

[Ansible Builder documentation](#)

### Ansible Compat

Compat is a Python package that assists with compatibility between different Ansible releases, starting at version 2.9.

[Ansible Compat documentation](#)

### Galaxy NG

Galaxy NG jumpstarts automation projects with Ansible community content.

[Galaxy NG documentation](#)

### Ansible Lint

Lint improves code quality through proven best practices, patterns, and behaviors so that your Ansible content results in reliable and consistent automation.

[Molecule documentation](#)


### Molecule


Molecule helps you develop and test Ansible roles.



<https://forum.ansible.com/t/the-ansible-ecosystem-docsite-is-here/1799>



 Ansible Builder Documentation

 ansible-builder

Search docs

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 / Introduction


## Introduction

Using Ansible content that depends on non-default dependencies

To help simplify this process, we have introduced the concept of Ex

 Ansible Lint Documentation

  Search

 GitHub

v6.15.0

3.1k

553

Ansible Lint Documentation

[User Guide](#)

[Philosophy of ansible-lint](#)

[Installing](#)

[Using](#)

[Configuration](#)


[Profiles](#)

**Rules**

[args](#)

[avoid-implicit](#)

## Ansible Lint Documentation




### About Ansible Lint

Ansible Lint is a command-line tool for linting **playbooks, roles and collections** aimed toward any Ansible users. Its main goal is to promote proven practices, patterns and behaviors while avoiding common pitfalls that can easily lead to bugs or make code harder to maintain.

Ansible lint is also supposed to help users upgrade their code to work with newer versions of Ansible. Due to this reason we recommend using it with the newest version of Ansible, even if the version used in production may be older.

# Evaluating Ansible core on Read the Docs





oraNod opened on Sep 11, 2023 · edited by oraNod

Edits Member ...

To further align core with the rest of the projects in the Ansible ecosystem, we should host docs on Read The Docs (RTD) within the `ansible` namespace. This not only aligns core with the rest of the projects but brings increased visibility and access to the host infrastructure for the Ansible community.

Additionally the Ansible community team at Red Hat wants to keep working with (and supporting) the RTD community. They provide great tooling that really improves the documentation contributor experience and not just the ability to host generated HTML.

It is important to note that this proposal concerns the underlying host infrastructure for core docs only. There will be no replacement for the current web server until we can ensure no changes to `https://docs.ansible.com/ansible-core/\*/index.html` will result from moving to RTD.

Here is a list of actions for this proposed evaluation:

```
### Tasks
- [x] Create a clearly marked stage project on RTD: https://readthedocs.org/projects/stage-ansible-core/
- [x] Add .readthedocs.yaml configuration to the "devel" branch.
- [x] Evaluate building PRs and other RTD features such as PDF builds for core docs for a limited test period.
- [x] Stand up versioned branches and translations on RTD.
- [x] Modify the version switcher so that "2.16" points to the RTD branch of "stable-2.16"
- [x] Determine what redirects need to be in place to avoid 404s or any SEO issues
```

Create sub-issue



<https://github.com/ansible/ansible-documentation/issues/377>

From now on, any Linux or Windows workflow triggered from a public repository, using GitHub's default labels, will run on our faster, more powerful 4-vCPU runners.

These new machines provide up to a 25% increase in performance for most CI/CD workloads without any configuration change required.



<https://github.blog/news-insights/product-news/github-hosted-runners-double-the-power-for-open-source/>



Tackling that chonky sphinx-build

# First iteration: Reproducing the Jenkins job



```
---  
  
name: Ansible package docs build  
on:  
  workflow_dispatch:  
    inputs:  
      repository-owner:  
        description: GitHub account or org that owns the repository  
        required: true  
        default: ansible  
      repository-name:  
        description: Name of the GitHub repository  
        required: true  
        default: ansible-documentation  
      repository-branch:  
        description: Branch, tag, or commit SHA  
        required: true  
        default: devel
```



Run workflow ▾

Use workflow from

Branch: devel ▾

GitHub account or org that owns the repository \*

ansible

Name of the GitHub repository \*

ansible-documentation

Branch, tag, or commit SHA \*

devel

Ansible community package version \*

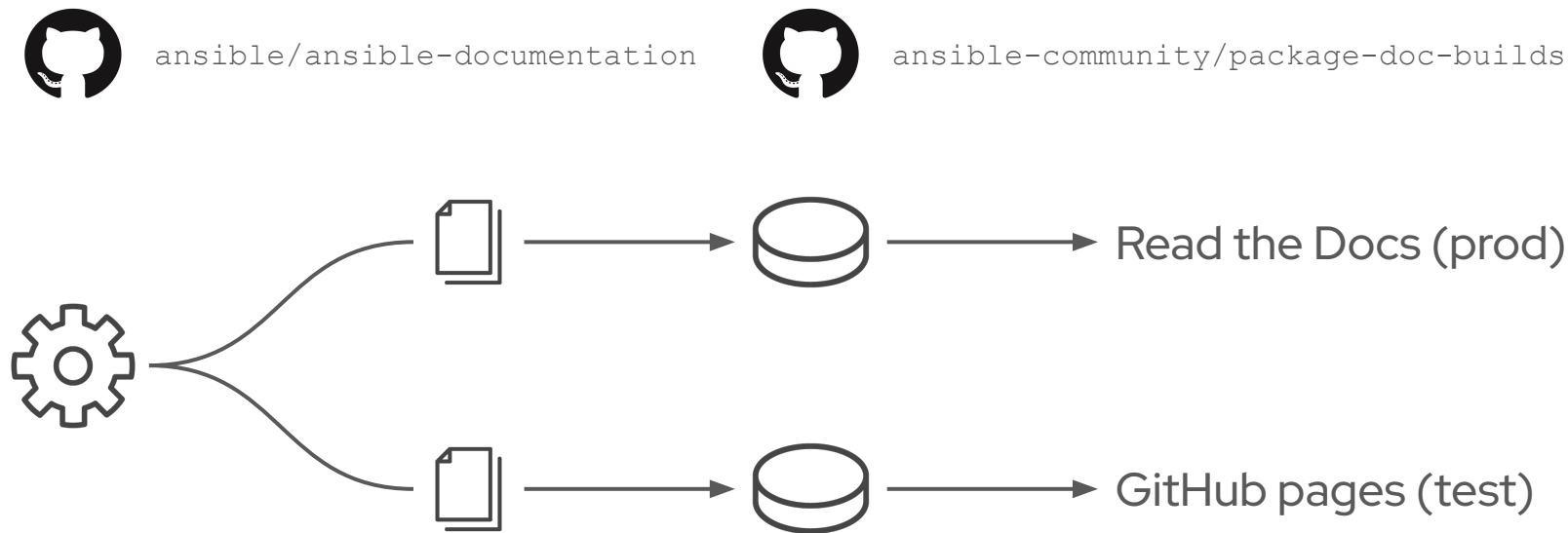
devel ▴ ▾

```
- name: Build the Ansible community package docs
  run: make webdocs ANSIBLE_VERSION="${COLLECTION_LIST}"
  working-directory: build-directory/docs/docsite
```

```
- name: Create a tarball with the build contents
  run: >-
    tar -czvf
    ansible-package-docs-html-"${PACKAGE_VERSION}"-"$(date '+%Y-%m-%d')-${
      github.run_id
    }-${
      github.run_number
    }-${
      github.run_attempt
    }".tar.gz
    --directory=_build/html/ .
  working-directory: build-directory/docs/docsite
```







# Creating a separate deploy job



```
deploy-package-docs:
  if: fromJSON(github.event.inputs.deploy)
  needs: build-package-docs
  runs-on: ubuntu-latest
  environment:
    name: deploy-package-docs
    url: ${ env.ENV_URL }
```

```
- name: Set the production branch and url
  if: env.TARGET == 'production'
  env:
    BRANCH_NAME: ${ github.event.inputs.repository-branch }
    PROD_URL: https://ansible.readthedocs.io/projects/ansible/en
  run: |
    echo "BRANCH=${BRANCH_NAME}" >> "${GITHUB_ENV}"
    echo "ENV_URL=${PROD_URL}/${BRANCH_NAME}" >> "${GITHUB_ENV}"

- name: Set the test branch and url
  if: env.TARGET == 'test'
  env:
    TEST_URL: https://ansible-community.github.io/package-doc-builds
  run: |
    echo "BRANCH=gh-pages" >> "${GITHUB_ENV}"
    echo "ENV_URL=${TEST_URL}" >> "${GITHUB_ENV}"
```



<https://github.com/ansible/ansible-documentation/pull/1353>

# Adding deploy keys



## Environments / Configure deploy-package-docs

### Deployment protection rules

Configure reviewers, timers, and custom rules that must pass before deployments to this environment can proceed.

#### ☒ Required reviewers

Specify people or teams that may approve workflow runs when they access this environment.

#### Add up to 5 more reviewers

Search for people or teams...

ansible/community-docs-maintainers X

#### ☐ Prevent self-review

Require a different approver than the user who triggered the workflow run.

#### ☐ Wait timer

Set an amount of time to wait before allowing deployments to proceed.

#### Enable custom rules with GitHub Apps [\(Preview\)](#)

[Learn about existing apps](#) or [create your own protection rules](#) so you can deploy with confidence.

#### ☒ Allow administrators to bypass configured protection rules

Save protection rules

### Deployment branches and tags

Limit which branches and tags can deploy to this environment based on rules or naming patterns.

No restriction ▼

### Environment secrets

Add environment secret

Secrets are encrypted environment variables. They are accessible only by GitHub Actions in the context of this environment by using the [secret context](#).

Name ↕

Last updated

DEPLOY\_DOC\_BUILD

8 months ago



## Deploy keys

Add deploy key

[Deploy keys](#) use an SSH key to grant readonly or write access to a single repository. They are not protected by a passphrase and can be a security risk if your server is compromised. If you have a complex project or want more fine-grain control over permissions, consider using [GitHub Apps](#) instead.

### 1 deploy key



#### DEPLOY\_DOC\_BUILD

SHA256:\*\*\*\*\*



Added on May 6, 2025 by @oraNod

Last used within the last week — Read/write

Delete

## Commits

devel ▼

### Commits on Jan 21, 2026

#### Push docs build 2026-01-21-21198485386-267-1

github-actions[bot] committed 12 hours ago

### Commits on Jan 20, 2026

#### Push docs build 2026-01-20-21160641545-266-1

github-actions[bot] committed 2 days ago

### Commits on Jan 19, 2026

#### Push docs build 2026-01-19-21126483493-265-1

github-actions[bot] committed 3 days ago

```
deploy:
  description: Deploy the build
  type: boolean
  required: true
  default: false
deployment-environment:
  description: Deployment environment
  type: choice
  required: true
  default: test
  options:
    - production
    - test
```

☒ **Deploy the build**

**Deployment environment \***

test

production

test

**Run workflow**

# Notifying on build failures



```
notify-build-failures:
  if: failure()
  needs: build-package-docs
  runs-on: ubuntu-latest
  env:
    ROOM_URL:
      https://ansible-accounts.ams.host/_matrix/client/v3/rooms/!HJtetIFWYEIDBOXxFE:libera.chat/send/m.room.message
  FAIL_MESSAGE: >-
    Oh no! A community package docs build has failed.
    Check this workflow run to see what went wrong:
    https://github.com/ansible/ansible-documentation/actions/runs/${{ github.run_id }}
    @orandon @samccann
  steps:
    - name: Set a transaction ID
      run: echo "TX_ID=$(date +%s)" >> "${GITHUB_ENV}"

    - name: Notify the DaWGs in Matrix
      run: |
        curl -X PUT "${{ env.ROOM_URL }}/${{TX_ID}}" \
        -H "Authorization: Bearer ${{ secrets.DOCS_BOT_TOKEN }}" \
        -H "Content-Type: application/json" \
        -d '{"msgtype": "m.text", "body": "${{ env.FAIL_MESSAGE }}"}'
```



<https://github.com/ansible/ansible-documentation/pull/1651>

```
- name: Log the workflow inputs if deploy checked
  if: fromJSON(github.event.inputs.deploy)
  run: |
    echo "## Deployment details :rocket:" >> "${GITHUB_STEP_SUMMARY}"
    echo "Publish to: ${github.event.inputs.deployment-environment}" >> "${GITHUB_STEP_SUMMARY}"
    echo "Package version: ${github.event.inputs.ansible-package-version}" >> "${GITHUB_STEP_SUMMARY}"
    echo "Owner: ${github.event.inputs.repository-owner}" >> "${GITHUB_STEP_SUMMARY}"
    echo "Branch: ${github.event.inputs.repository-branch}" >> "${GITHUB_STEP_SUMMARY}"
```

## Deploy / log-inputs summary

### Deployment details

Publish to: test

Package version: devel

Owner: Jkhall81

Branch: 3228-prune-stub-files

Job summary generated at run-time



<https://github.com/ansible/ansible-documentation/pull/1650>

# Setting up nightlies, part one



```
##[error]Invalid repository '/'. Expected format {owner}/{repo}.
```

```
43 - PACKAGE_VERSION: ${ github.event.inputs.ansible-package-version }
44 - LANGUAGE: ${ github.event.inputs.language }
43 + PACKAGE_VERSION: ${ github.event.inputs.ansible-package-version || 'devel' }
45 44
46 45 jobs:
47 46   build-package-docs:
48 47   @@ -52,11 +51,11 @@ jobs:
52 51       with:
53 52         repository: >-
54 53         ${
55 -         github.event.inputs.repository-owner
56 54 +         github.event.inputs.repository-owner || 'ansible'
57 55         }}/${
58 56 -         github.event.inputs.repository-name
59 56 +         github.event.inputs.repository-name || 'ansible-documentation'
60 57         }
61 58   ref: ${ github.event.inputs.repository-branch }
62 58 +   ref: ${ github.event.inputs.repository-branch || 'devel' }
```

```
"on":
  schedule:
    # Run at 05:17 on Tuesday and Thursday
    - cron: '17 5 * * 2,4'
```



<https://github.com/ansible/ansible-documentation/pull/1727>



```
on:
  workflow_dispatch:
    inputs:
      deploy:
        type: boolean
        description: Deploy the build
        required: true
```

```
check-deploy:
  if: github.event_name == 'workflow_dispatch' && github.event.inputs.deploy == 'true'
  needs: build-package-docs
```


```
deploy-package-docs:
  needs:
    - check-deploy
```





# Automatically deploying builds



 oraNod opened on Sep 19, 2024 · edited by oraNod Edits Member ...

Following on from discussion in [#1869](#)

Now that we are building package docs nightly in GHA, we should consider automatically deploying those builds to the `devel` branch on RTD: <https://ansible.readthedocs.io/projects/ansible/devel/>


We currently auto-deploy to `devel` on `docs.ansible.com` with the jenkins job on RH infra. Setting this up with the GHA builds would give us functional parity with the jenkins stuff. At some point we discussed it but decided to keep GHA build deployments on a manual trigger while we evaluate the new workflow.

There are other options for auto-deploying package builds too:

- Deploying nightlies to stage. This might be problematic because it would overwrite changes on stage, which might be annoying for experimental things that we want to leave up for more than a day.
- Deploying builds to `latest`. This could be risky because it is the version with the most visitors.

One thing to clarify, this does not apply to Ansible core documentation. In this context, the auto-deploy is for docs hosted on readthedocs. The Ansible core docs are automatically deployed using RTD settings and in its own project. The build package docs workflow is in a separate RTD project to core docs.

```
### Tasks
- [x] Decide on a strategy for automatically deploying builds
- [ ] https://github.com/ansible/ansible-documentation/issues/2047
- [ ] https://github.com/ansible/ansible-documentation/issues/2049
- [ ] https://github.com/ansible/ansible-documentation/issues/2050
```

Create sub-issue 



<https://github.com/ansible/ansible-documentation/issues/1922>

# Creating reusable workflows for good structure



```
$ ll .github/workflows/  
  
build-devel-docs.yaml  
build-latest-docs.yaml  
build-package-docs.yaml  
  
reusable-build-docs.yaml  
reusable-deploy-docs.yaml
```

```
jobs:  
  build-package-docs:  
    name: 📝 Build  
    uses: ../github/workflows/reusable-build-docs.yaml  
  
  deploy-package-docs:  
    name: 🚀 Deploy  
    if: github.event_name == 'workflow_dispatch' && github.event.inputs.deploy == 'true'  
    needs: build-package-docs
```

# Creating reusable workflows for good structure



```
$ ll .github/workflows/  
  
build-devel-docs.yaml  
build-latest-docs.yaml  
build-package-docs.yaml  
  
reusable-build-docs.yaml  
reusable-deploy-docs.yaml
```

```
jobs:  
  build-package-docs:  
    name: 📝 Build  
    uses: ../github/workflows/reusable-build-docs.yaml  
  
  deploy-package-docs:  
    name: 🚀 Deploy  
    if: github.event_name == 'workflow_dispatch' && github.event.inputs.deploy == 'true'  
    needs: build-package-docs
```



# Decoupling product documentation



RST > Sphinx build > docs.ansible.com



ADOC > publishing toolchain > redhat.com



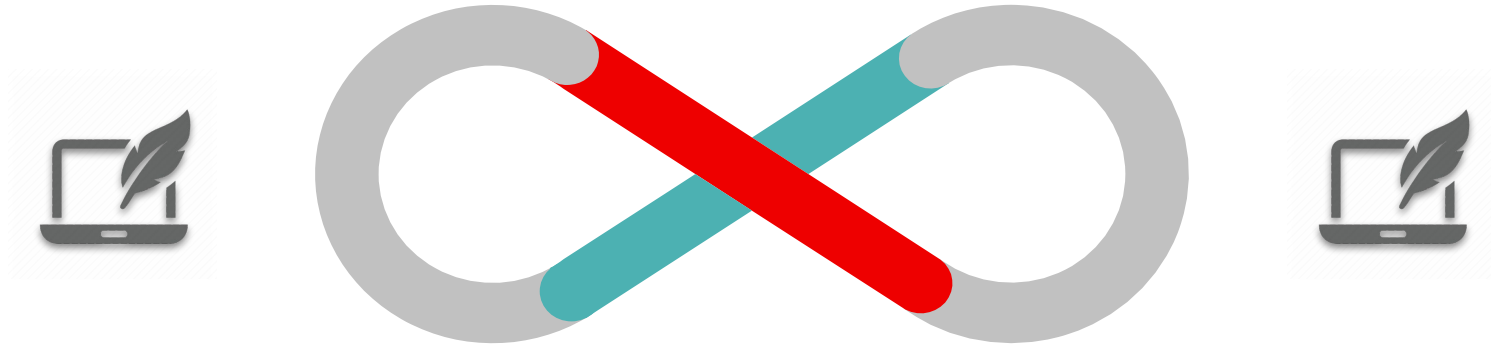


RST > Sphinx build > [awx.readthedocs.io](https://awx.readthedocs.io)



ADOC > publishing toolchain > [redhat.com](https://redhat.com)





```
- name: Find and register RST files
  ansible.builtin.find:
    paths: "{{ target_dir }}"
    patterns: "*.rst"
    recurse: true
    file_type: file
  register: rst_files
- name: Convert RST to ADOC
  ansible.builtin.shell:
    cmd: while read i; do pandoc "$i" -o "${i%.*}.adoc"; done
    stdin: "{{ item.path }}"
  loop: "{{ rst_files.files }}"
  changed_when: false
```



```
<VirtualHost *:80>
  ServerName legacy-controller-docs.ansible.com
  DocumentRoot /var/www/html/legacy-controller-docs/
  Options +Indexes
  <Directory /var/www/html/legacy-controller-docs/>
    Options Indexes FollowSymLinks MultiViews
    AllowOverride FileInfo Options=MultiViews
    Order allow,deny
    allow from all
  </Directory>
</VirtualHost>
```



<https://forum.ansible.com/t/we-re-moving-to-read-the-docs/43519/>

# Syncing the release mirrors (inside the loop)



```
RELEASE_MIRROR_PATH = "/var/www/html"  
RELEASES_PATH_DOCS = "/var/www/html/docs/automation-controller"  
RELEASES_PATH_LCDOCS = "/var/www/html/legacy-controller-docs/automation-controller"
```

```
for mirror in ${RELEASE_MIRROR_ADDRESSES}; do  
    mirror_ip=${mirror%:*}  
    mirror_port=${mirror#*:}  
  
    # First rsync from docs to legacy controller docs  
    ssh -A jenkins@stage-hostname.ansible.com \  
        "rsync -av --delete ${RELEASES_PATH_DOCS}/ ${RELEASES_PATH_LCDOCS}/"  
  
    # Second rsync for /var/www/html  
    ssh -A jenkins@stage-hostname.ansible.com \  
        "rsync -av --delete ${RELEASE_MIRROR_PATH}/ \  
        jenkins@${mirror_ip}:${RELEASE_MIRROR_PATH}/" & \ JOBS[$!]=${mirror_ip}  
done
```

# Syncing the release mirrors (outside the loop)



```
# First rsync
# Synchronizes updates to docs into legacy controller docs
# Happens on the stage host
ssh -A jenkins@stage-hostname.ansible.com \
    "rsync -av --delete ${RELEASES_PATH_DOCS}/ ${RELEASES_PATH_LCDOCS}/"

for mirror in ${RELEASE_MIRROR_ADDRESSES}; do
    mirror_ip=${mirror%:*}
    mirror_port=${mirror#*:}

    # Second rsync
    # Synchronizes everything under /var/www/html
    # Goes from the stage host to mirrors
    ssh -A jenkins@stage-hostname.ansible.com \
        "rsync -av --delete ${RELEASE_MIRROR_PATH}/ \
        jenkins@${mirror_ip}:${RELEASE_MIRROR_PATH}/" & \
        JOBS[$!]=${mirror_ip}
done
```



Handling >25,000 redirects



## Redirects for “pre-collection” pages.

```
RedirectMatch "^(/ansible/[^/]+)/modules/eos_lag_interfaces_module.html" "$1/collections/arista/eos/eos_lag_interfaces_module.html"  
RedirectMatch "^(/ansible/[^/]+)/modules/eos_linkagg_module.html" "$1/collections/arista/eos/eos_linkagg_module.html"  
RedirectMatch "^(/ansible/[^/]+)/modules/eos_lldp_module.html" "$1/collections/arista/eos/eos_lldp_module.html"  
RedirectMatch "^(/ansible/[^/]+)/modules/eos_lldp_global_module.html" "$1/collections/arista/eos/eos_lldp_global_module.html"
```

## Redirects for documentation restructuring.

```
RedirectMatch permanent "^/ansible/(devel|latest)/ansible.html" "/ansible/$1/cli/ansible.html"  
RedirectMatch permanent "^/ansible/(devel|latest)/ansible-vault.html" "/ansible/$1/cli/ansible-vault.html"  
RedirectMatch permanent "^/ansible/(devel|latest)/ansible-pull.html" "/ansible/$1/cli/ansible-pull.html"  
RedirectMatch permanent "^/ansible/(devel|latest)/ansible-playbook.html" "/ansible/$1/cli/ansible-playbook.html"  
RedirectMatch permanent "^/ansible/(devel|latest)/ansible-inventory.html" "/ansible/$1/cli/ansible-inventory.html"
```



## Redirects for “pre-collection” pages.

```
# Redirect plugin pages for versions 2.3 and 2.4
RedirectMatch permanent "^/ansible/(2\.[3-4])/plugins/(.+)\.html$" "/collections.html"

# Redirect module pages for versions 2.3 and 2.4
RedirectMatch permanent "^/ansible/(2\.[3-4])/([^\.]*)_module\.html$" "/collections.html"

# Redirect plugin and module pages for versions 2.5 to 2.8
RedirectMatch permanent "^/ansible/(2\.[5-8])/(plugins|modules)/(.+)\.html$" "/collections.html"
```



<https://forum.ansible.com/t/consolidating-redirects-on-docs-ansible-com/38897>















# Migrating redirects to Read the Docs



## Top level project

	<a href="#">/\$lang/\$version/ansible/latest/modules/*</a> Redirect to: <a href="#">/\$lang/\$versionhttps://docs.ansible.com/collections.html</a>	   
	<a href="#">/\$lang/\$version/ansible/devel/modules/*</a> Redirect to: <a href="#">/\$lang/\$versionhttps://docs.ansible.com/collections.html</a>	   
	<a href="#">/\$lang/\$version/ansible/2.8/*</a> Redirect to: <a href="#">/\$lang/\$version/projects/ansible/latest/index.html</a>	  

## Subproject

	<a href="#">/projects/ansible/latest/modules/*</a> Redirect to: <a href="#">https://docs.ansible.com/collections.html</a>	  
	<a href="#">/projects/ansible/devel/modules/*</a> Redirect to: <a href="#">https://docs.ansible.com/collections.html</a>	   
	<a href="#">/projects/ansible/2.8/*</a> Redirect to: <a href="#">/projects/ansible/latest/:splat</a>	   



```
# docs/docsite/declarative-configs/ansible_redirects.toml

"ansible.html" = "cli/ansible.html"
"ansible-vault.html" = "cli/ansible-vault.html"
"ansible-pull.html" = "cli/ansible-pull.html"
"ansible-playbook.html" = "cli/ansible-playbook.html"
"ansible-inventory.html" = "cli/ansible-inventory.html"
"ansible-galaxy.html" = "cli/ansible-galaxy.html"
"ansible-doc.html" = "cli/ansible-doc.html"
"ansible-console.html" = "cli/ansible-console.html"
"ansible-config.html" = "cli/ansible-config.html"
"intro_getting_started.html" = "getting_started/index.html"
```





```
# Generate redirects for pages when building on Read The Docs
def setup(app: Sphinx) -> dict[str, bool | str]:

    if 'redirects' in app.tags:

        redirects_config_path = DOCS_ROOT_DIR.parent / "declarative-configs" / "ansible_redirects.toml"
        redirects = tomlib.loads(redirects_config_path.read_text())
        redirect_template = DOCS_ROOT_DIR.parent / ".templates" / "redirect_template.html"

        app.config.redirects = redirects
        app.config.redirect_html_template_file = redirect_template
        app.setup_extension('sphinx_rerredirects') # redirect pages that have been restructured or removed

    return {
        "parallel_read_safe": True,
        "parallel_write_safe": True,
        "version": app.config.release,
    }
```



# Generating redirects with the Sphinx build, part three



```
generate-redirects:  
  description: Generate page redirects  
  type: boolean  
  default: true
```



Use workflow from

Branch: devel ▾

GitHub account or org that owns the repository \*

ansible

Name of the GitHub repository \*

ansible-documentation

Branch, tag, or commit SHA \*

devel

Ansible community package version \*

devel ▴ ▾

☒ Generate page redirects

☐ Deploy the build

Deployment environment \*

test ▴ ▾

Run workflow



```
# Run against a single text file.
python url_checker.py --file=path/to/file.txt

# Run against multiple text files in a directory.
python url_checker.py --directory=path

# Check an individual path.
python url_checker.py --url=/ansible/latest/modules/shell_module.html
```

```
Original Path: /ansible/2.4/playbooks_roles.html
Full URL: https://docs.ansible.com/ansible/2.4/playbooks_roles.html
Status: 302
Redirects to: http://docs.ansible.com/ansible/latest/user_guide/playbooks_reuse.html
Timestamp: YYYY-MM-DD HH:MM:SS
```







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