

“The **impact** we
cherish is **discovery**
in science”

Randy Schekman,
eLife Editor-in-chief

Introducing eLife Continuum

Webinar – August 4, 2016

4:00 – 5:00pm UK



Ian Mulvany

eLife Head of Technology



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Agenda

- Introductions
- eLife journal on eLife Continuum platform
- eLife Continuum demo
- Next steps – use and further development
- Time for questions

Please type your questions in the questions panel.

Note that we will endeavour to answer those in the time provided in the latter part of the session.





eLIFE

Helping scientists **accelerate discovery** by
operating a platform for research communication
that encourages and recognises **the most**
responsible behaviours in science

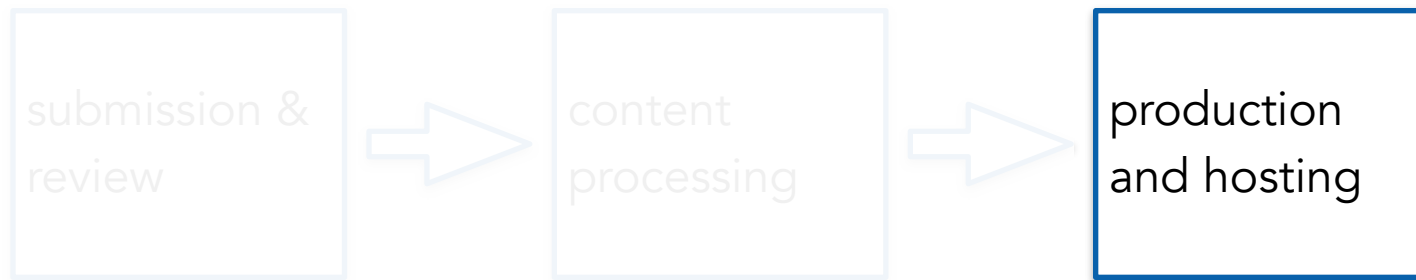
- What we did
- Motivation
- Key Features
- Limitations
- Architecture
- Amazon Web Services Dependencies
- Code Structure
- Installation and Deployment
- Demo
- Feature Requests and Feedback
- Time for questions



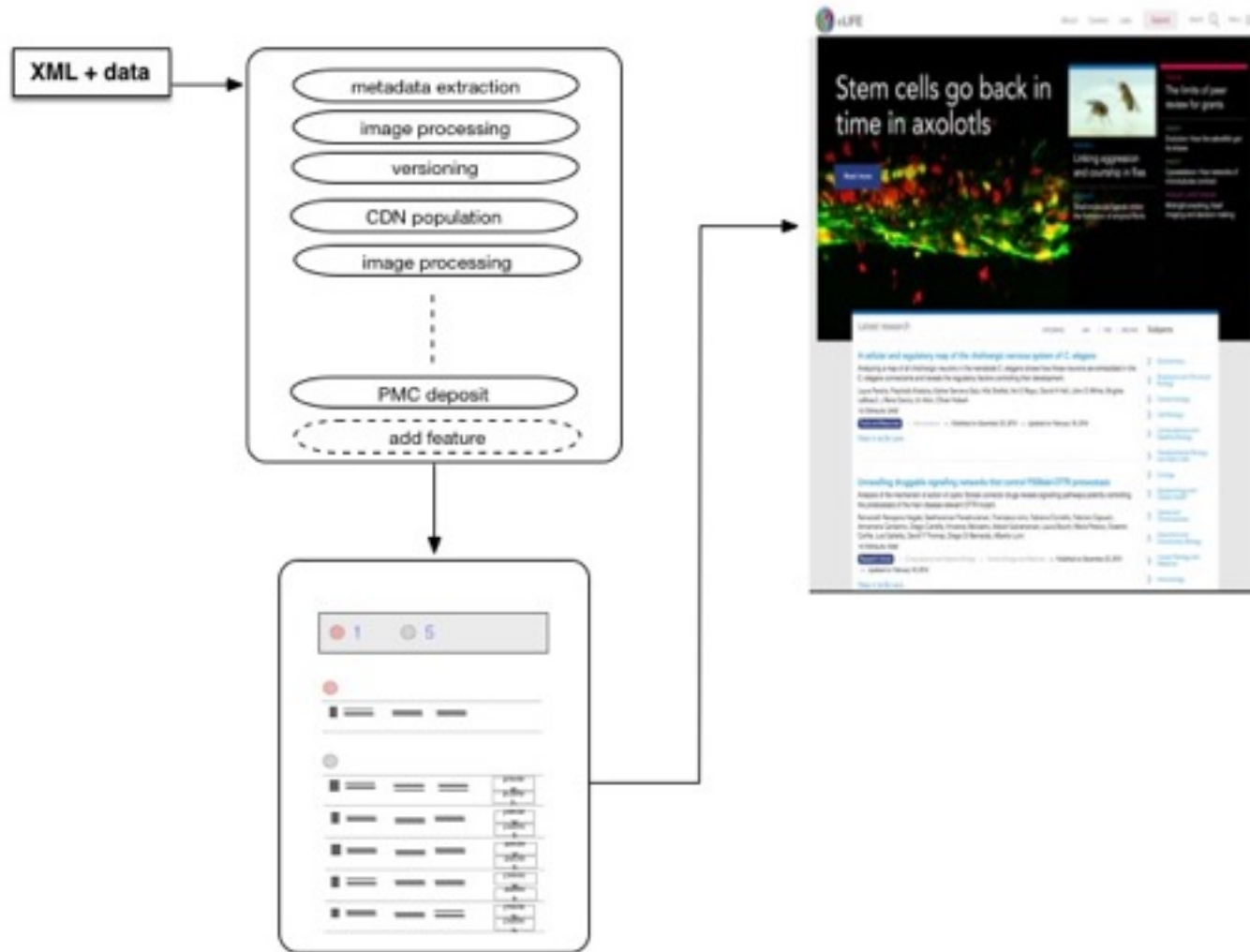
- What we did



- **What we did**



- What we did



- **Motivation**

- Provide control over our content, end to end
- Support future developments on our platform
- Contributes towards the creation of an ecosystem of open scholarly infrastructure

We are happy because:

- Just not that many open source pieces of infrastructure for STM publishing in the wild
- It's actually possible to run and configure multiple versions
- It's almost trivial to extend the back-end functions
- The dashboard auto-extends to show any data you feed it

- **Key Features**

- Good previews of articles ahead of publication
- Article versions
- Scheduling for future publication
- Modular and extensible
- Works with JATS XML



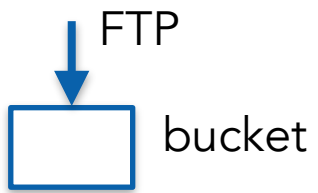
- **Limitations**

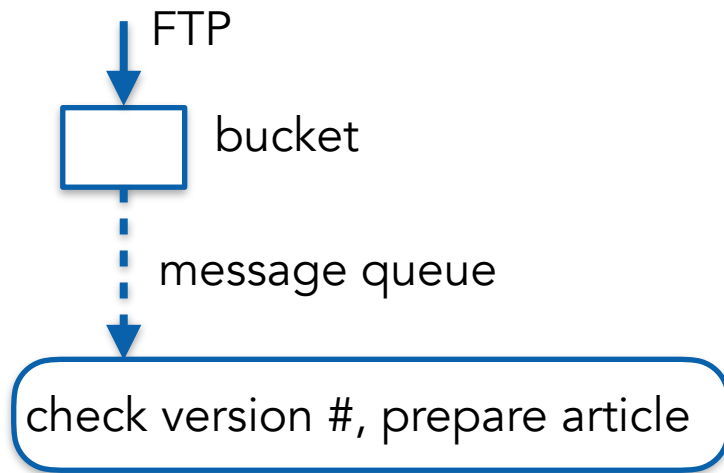
- Does not support issues
- Currently only explicit support for one journal
- Production system does not support user accounts
- Installation is quirky

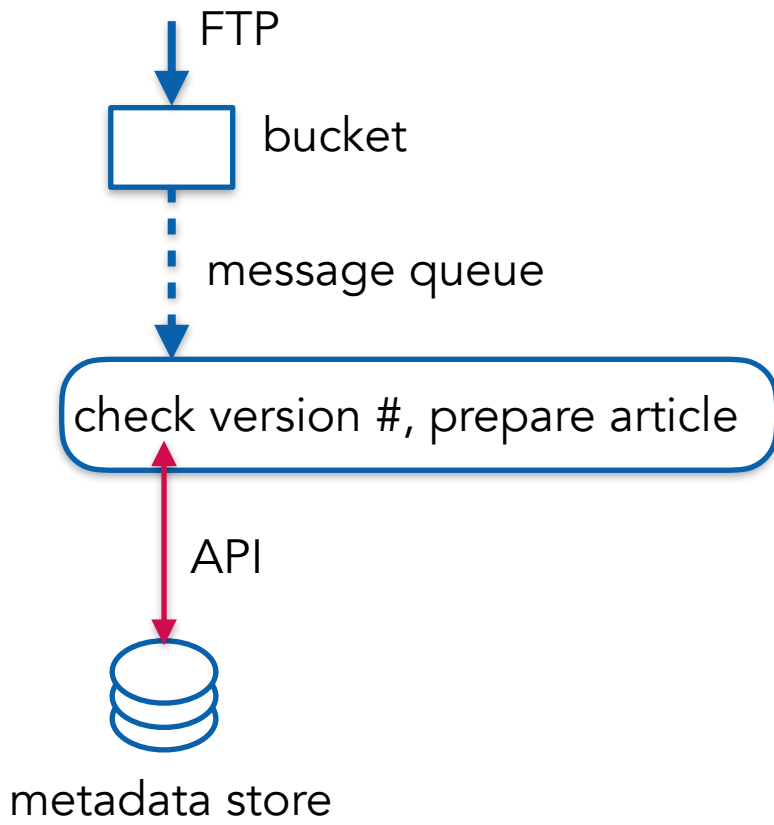


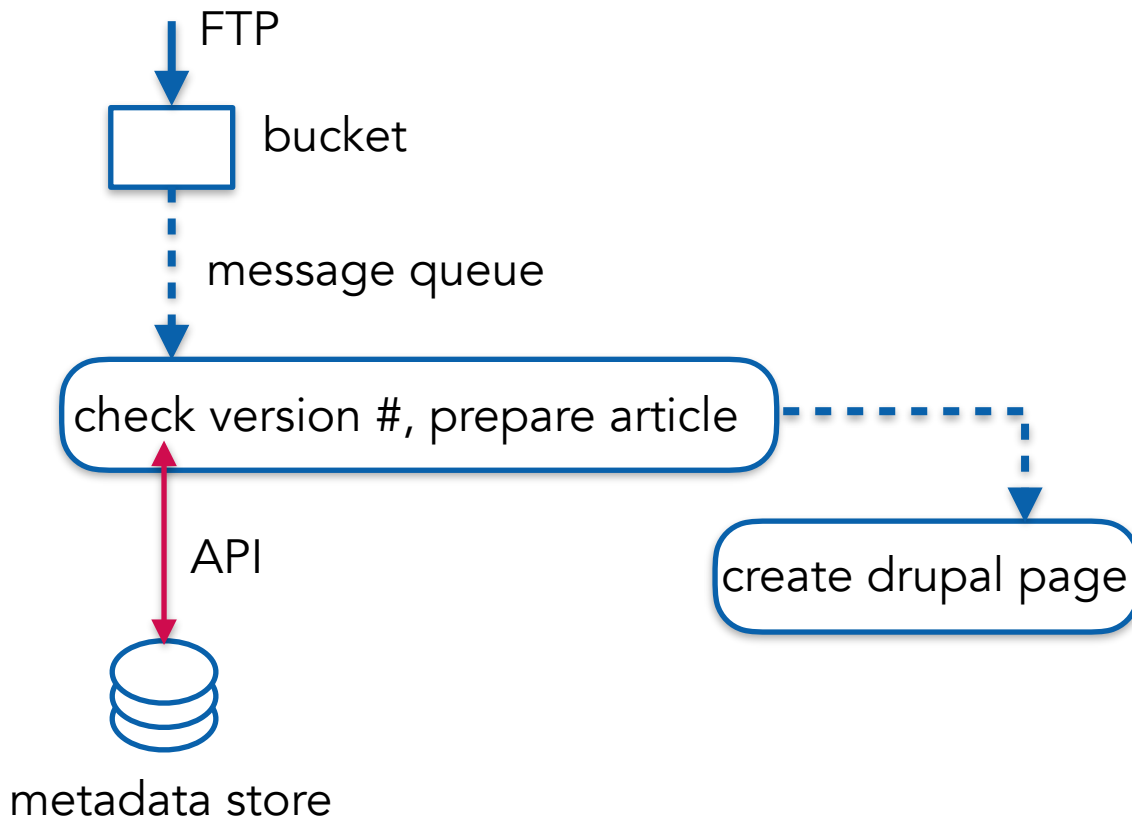
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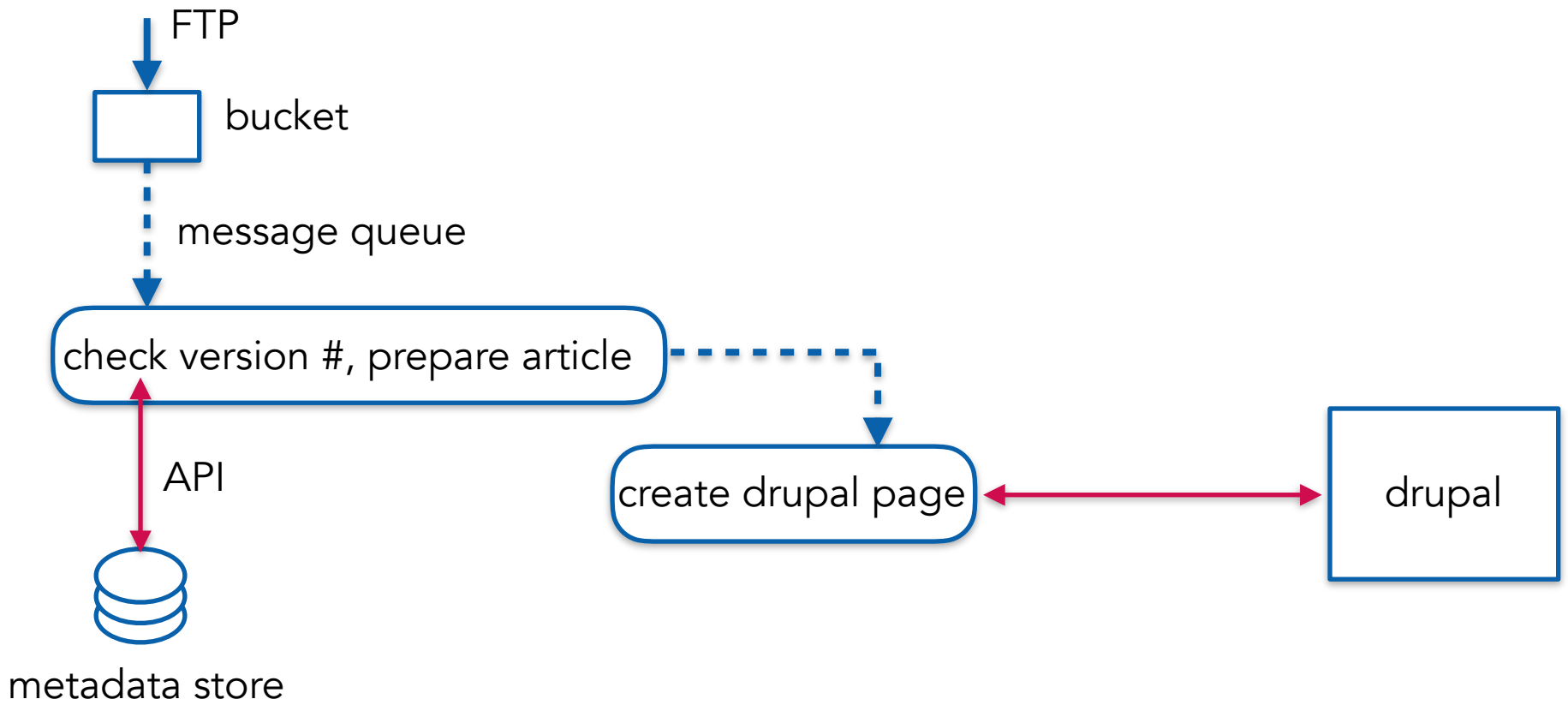


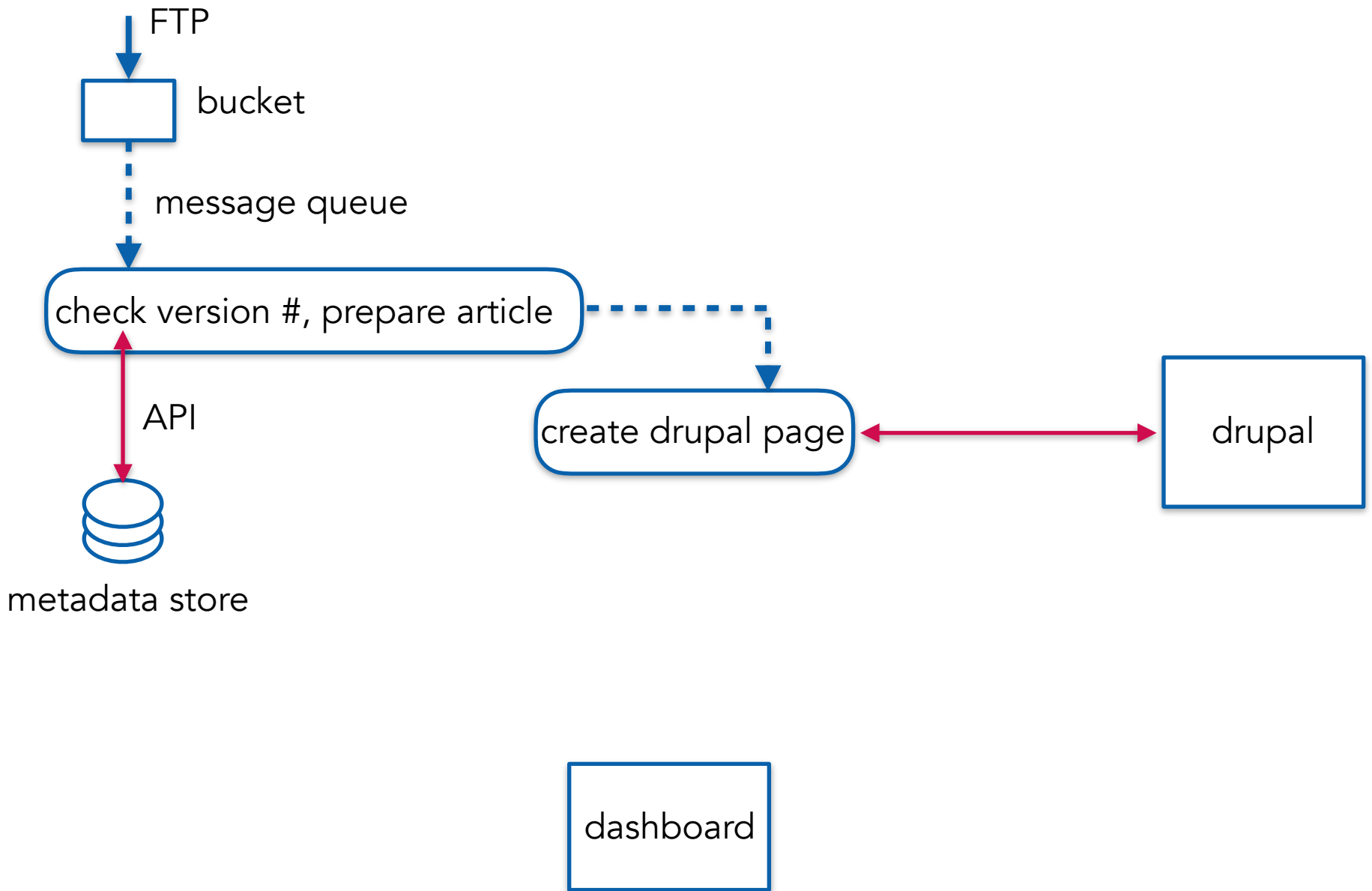


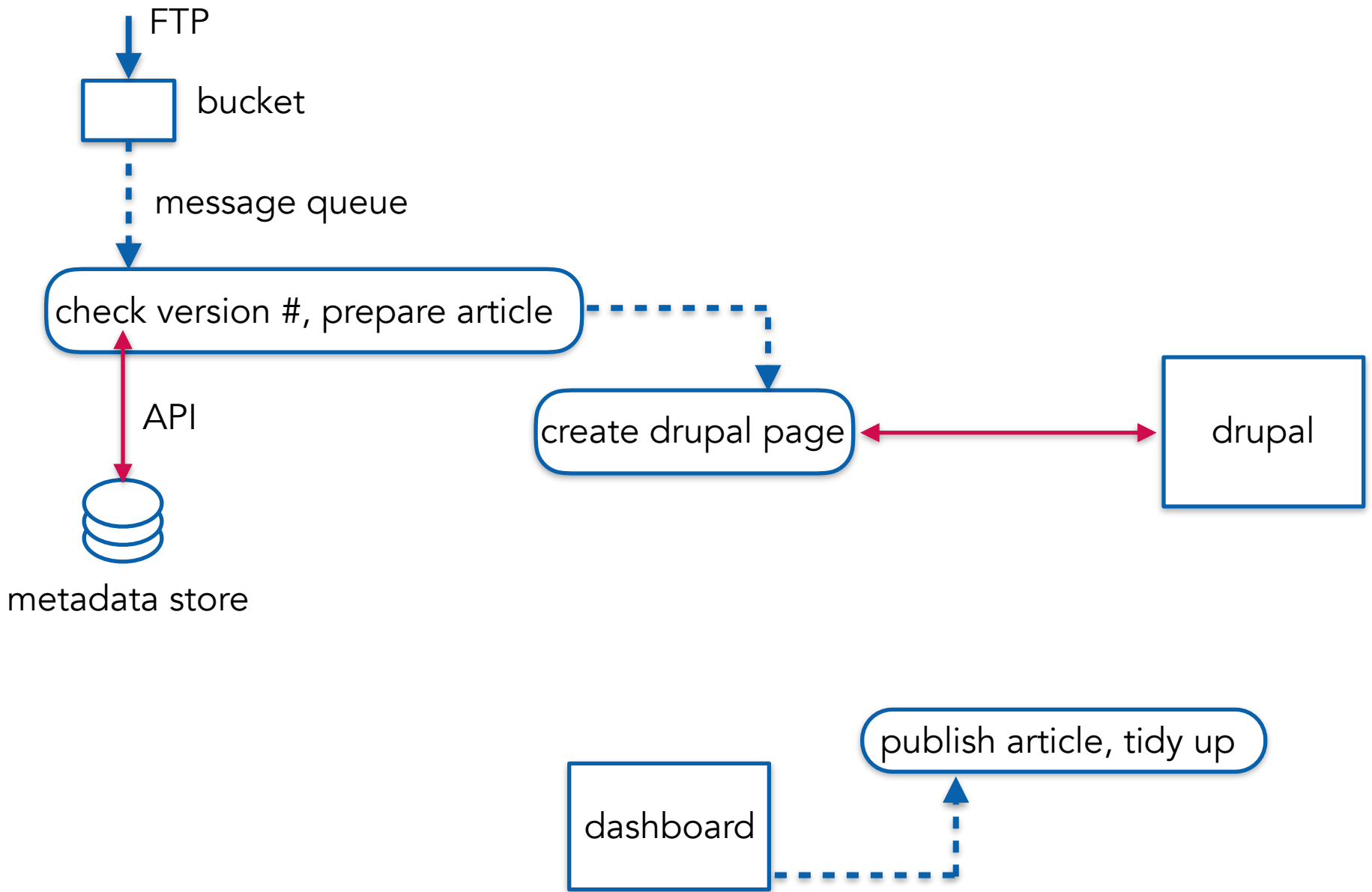


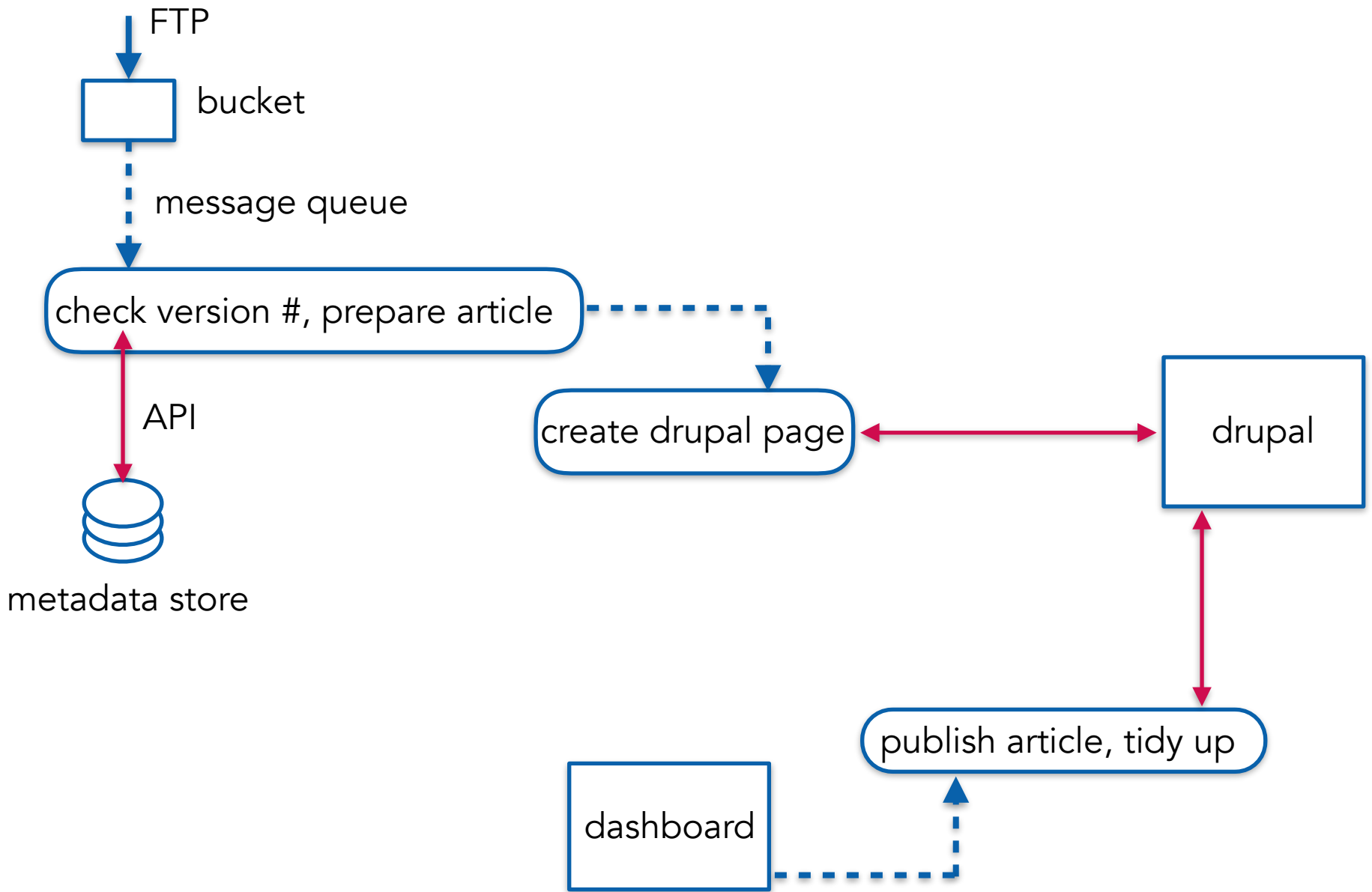


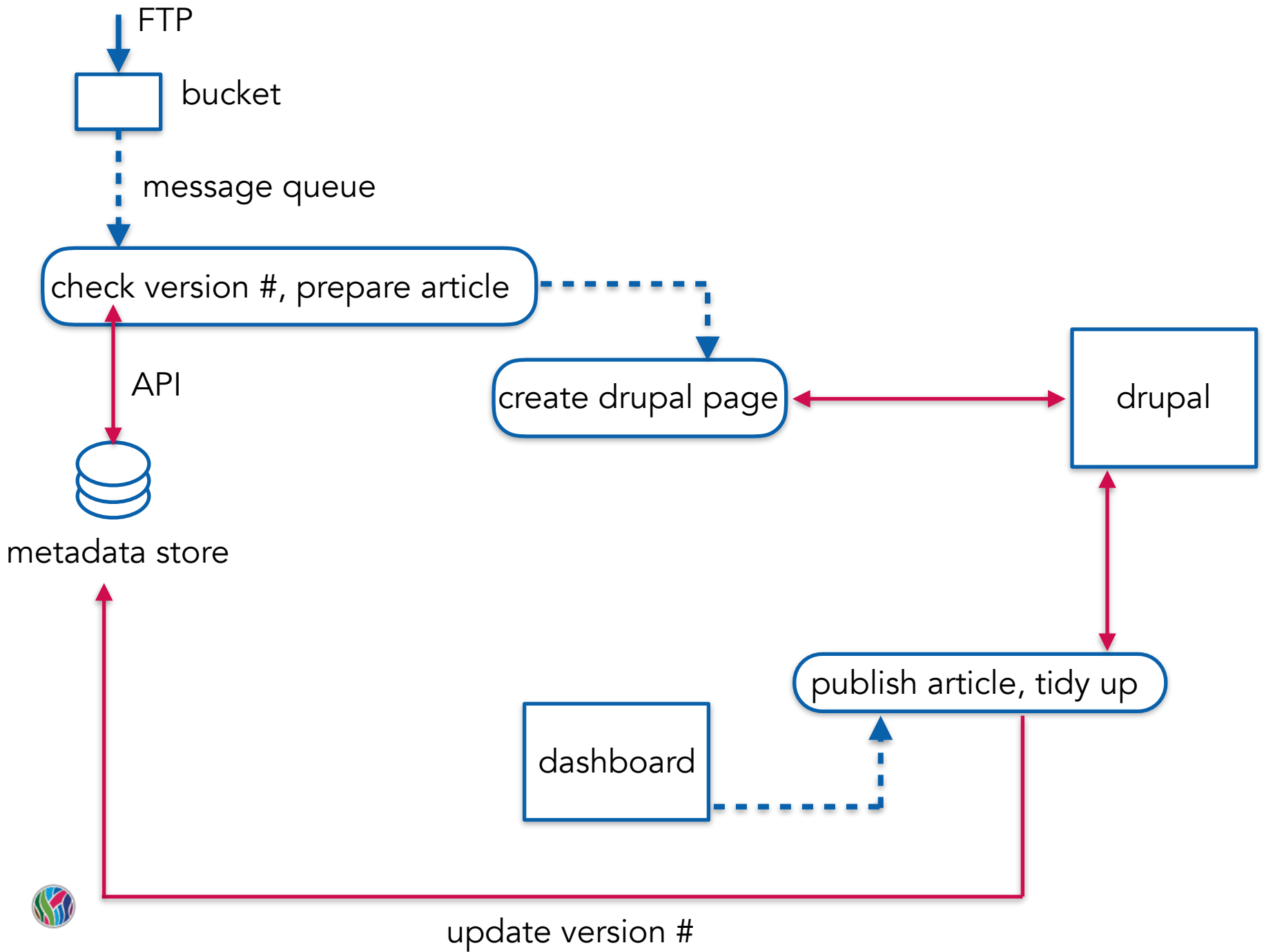


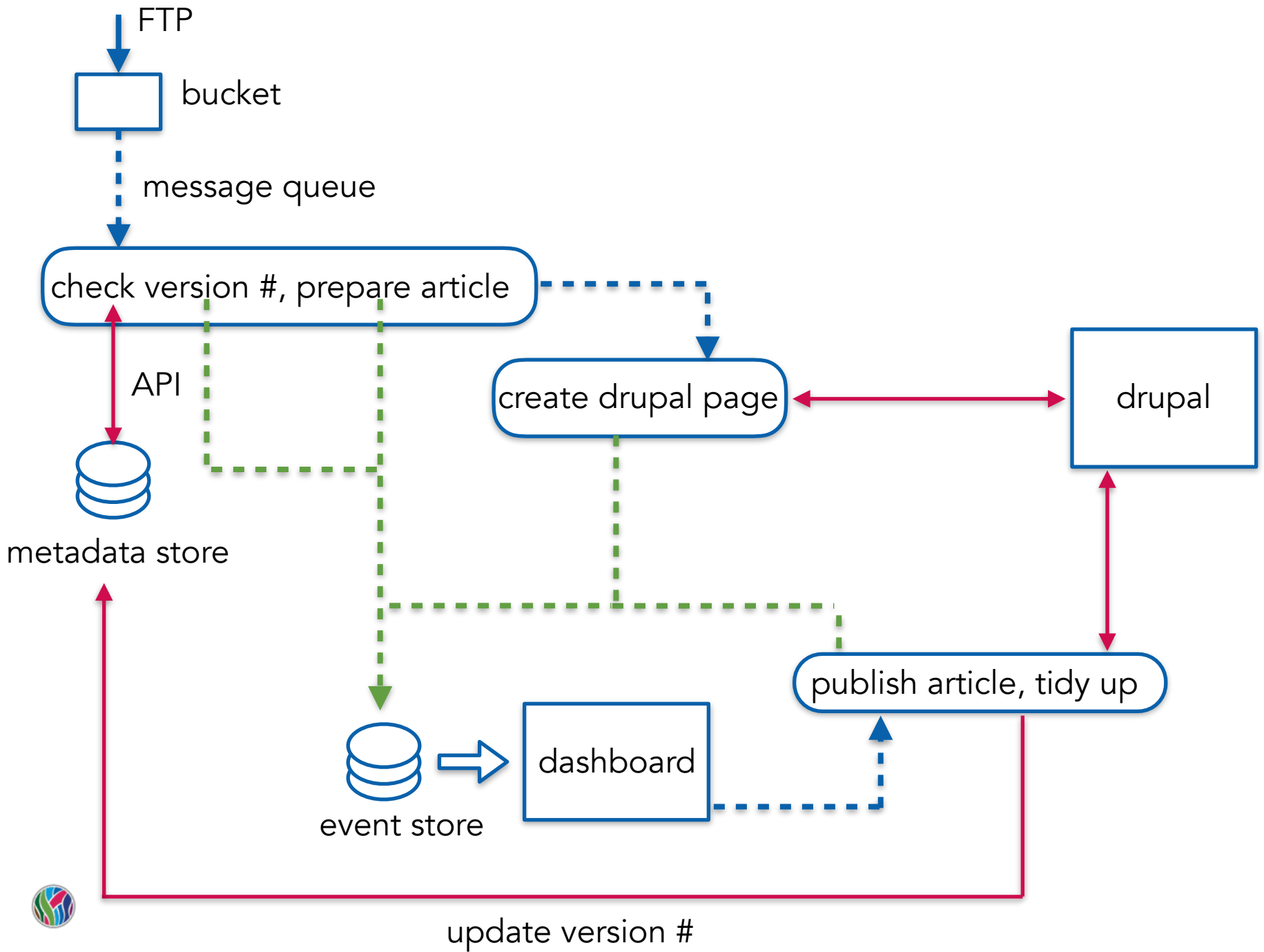


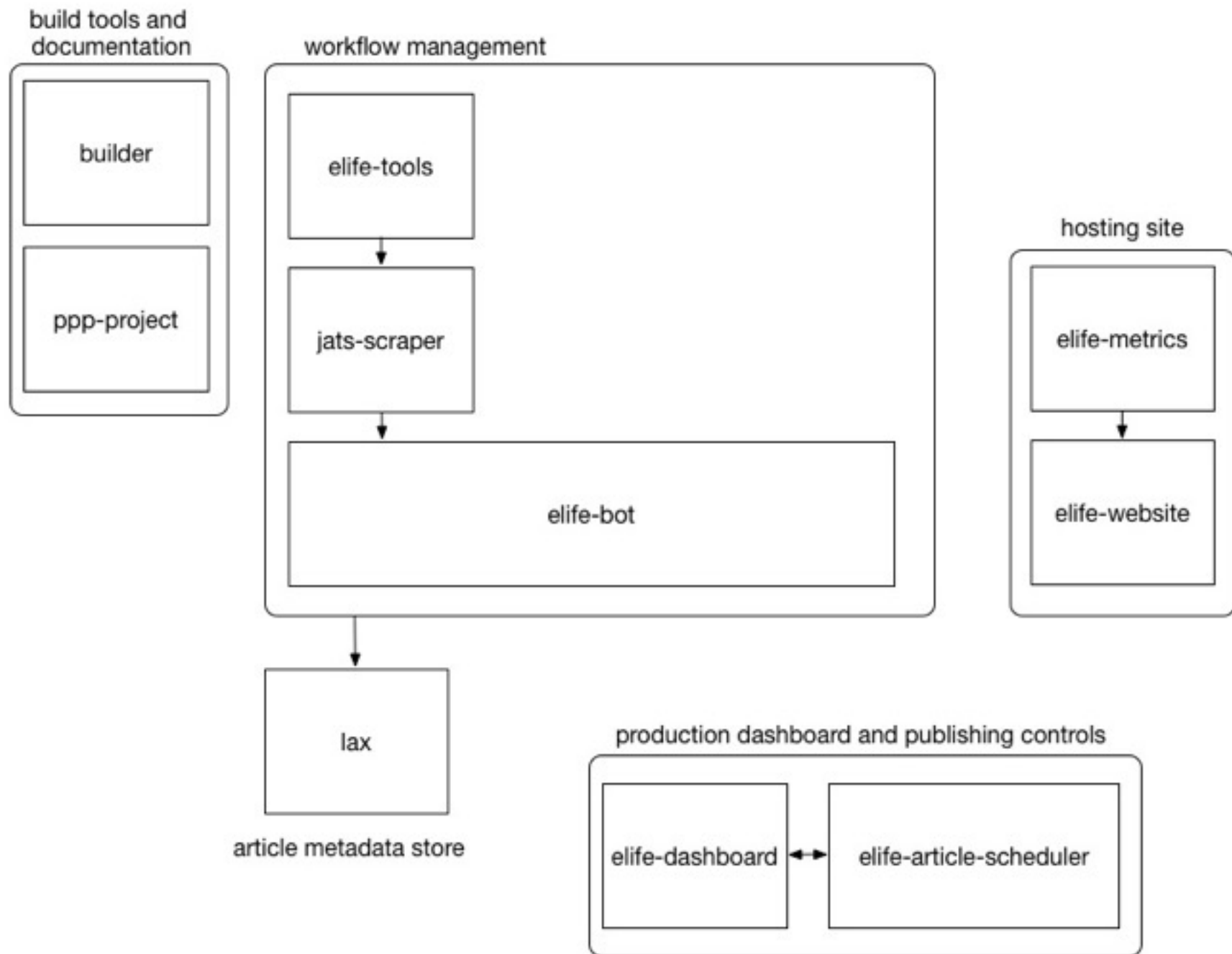












- **Code Structure**

- Anatomy of a workflow
- Example of an activity
- Triggering a new workflow
- Sending an event to the event store

- **Demo**

- <https://continuum-test.ppp-dash.elifesciences.org/current>
- <https://continuum-test.v2.elifesciences.org>
- <http://ct-elife-production-final.s3.amazonaws.com/>



- **Amazon Web Services Dependencies**

- Simple Workflow (SWF)

currently tightly coupled to SWF, but this is a cheap service.

- Simple Queueing Service (SQS)

SQS is fairly tightly coupled, but is just used for messaging between processes, could be replaced, e.g. RabbitMQ

- S3 & Bucket Notifications

S3 Buckets have FTP endpoints in front of them, only "AWS" feature that is used is bucket notification, could be replaced by Cron

- Simple Mail Service

- Cloud formation

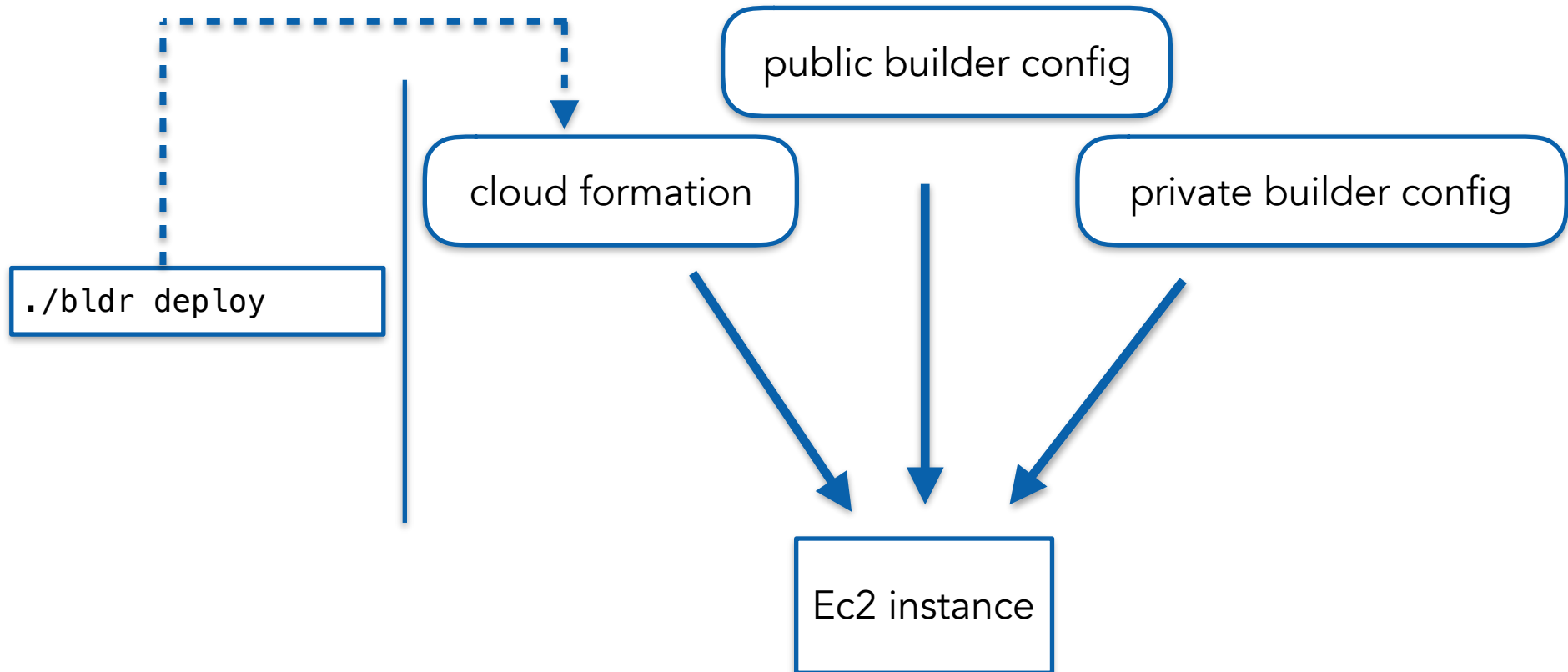
SMS and Cloudformation are for ease of use, but not needed for more core functions

- (EC2)

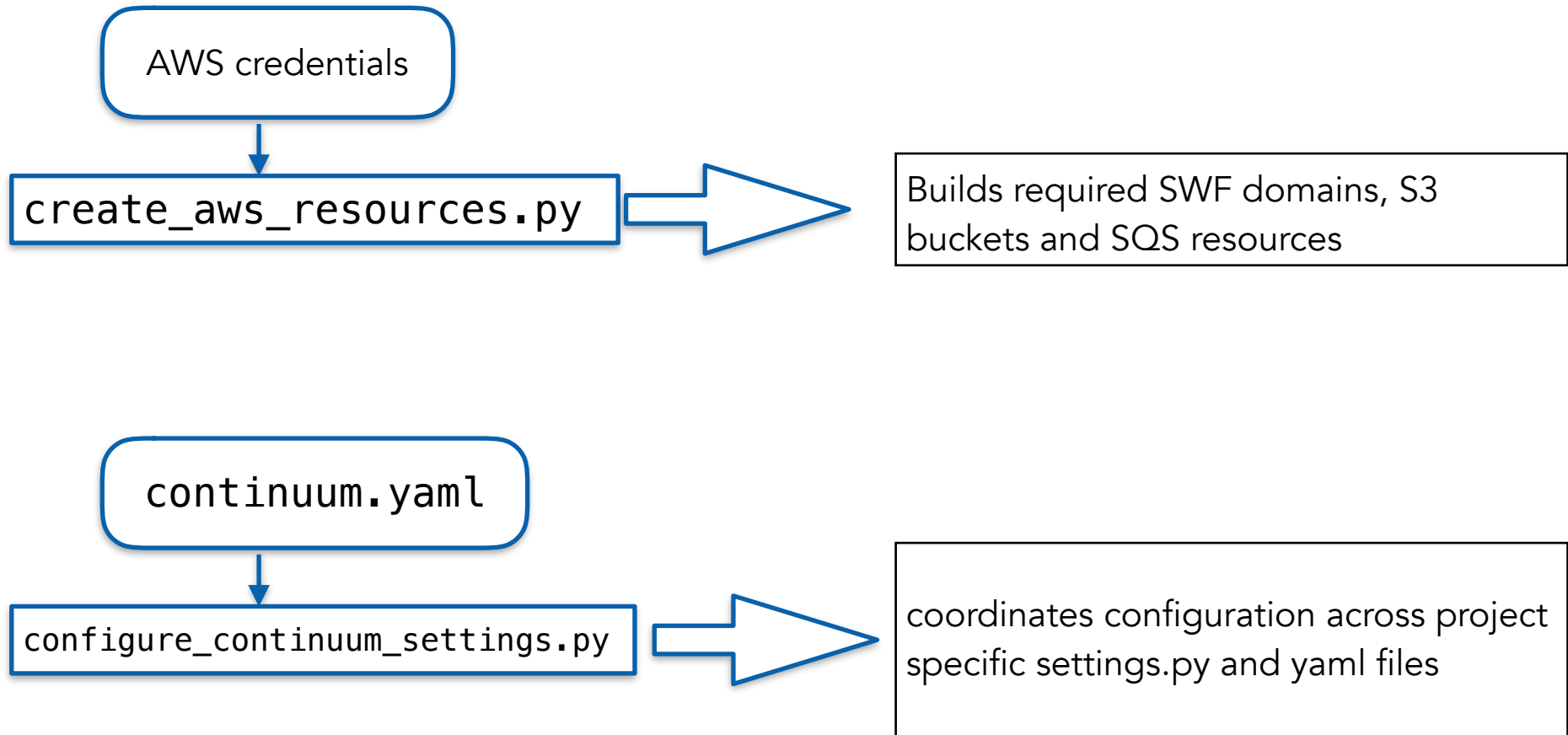
Processes run in Ec2, but could run anywhere, as SWF orchestrates workflows

- Installation and Deployment

<https://github.com/elifesciences/builder> uses <http://saltstack.com>



- **Installation and Deployment**



- **Next steps**

1. Continue to improve test coverage and integration with a CI server
2. Work towards the ability to make coordinated deployments
3. Work progressing on greater modularity of the back end
4. Get feedback from the community on features

- **Feature Requests and Feedback**

Code and documentation is available from

<https://github.com/elifesciences/elife-continuum-documentation>

Specific code / feature requests

<https://github.com/elifesciences/elife-continuum-documentation/issues>

General discussion / announcements

<https://groups.google.com/forum/#!forum/elife-continuum-list>

Thank you!



MAX-PLANCK-GESELLSCHAFT



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Q&A

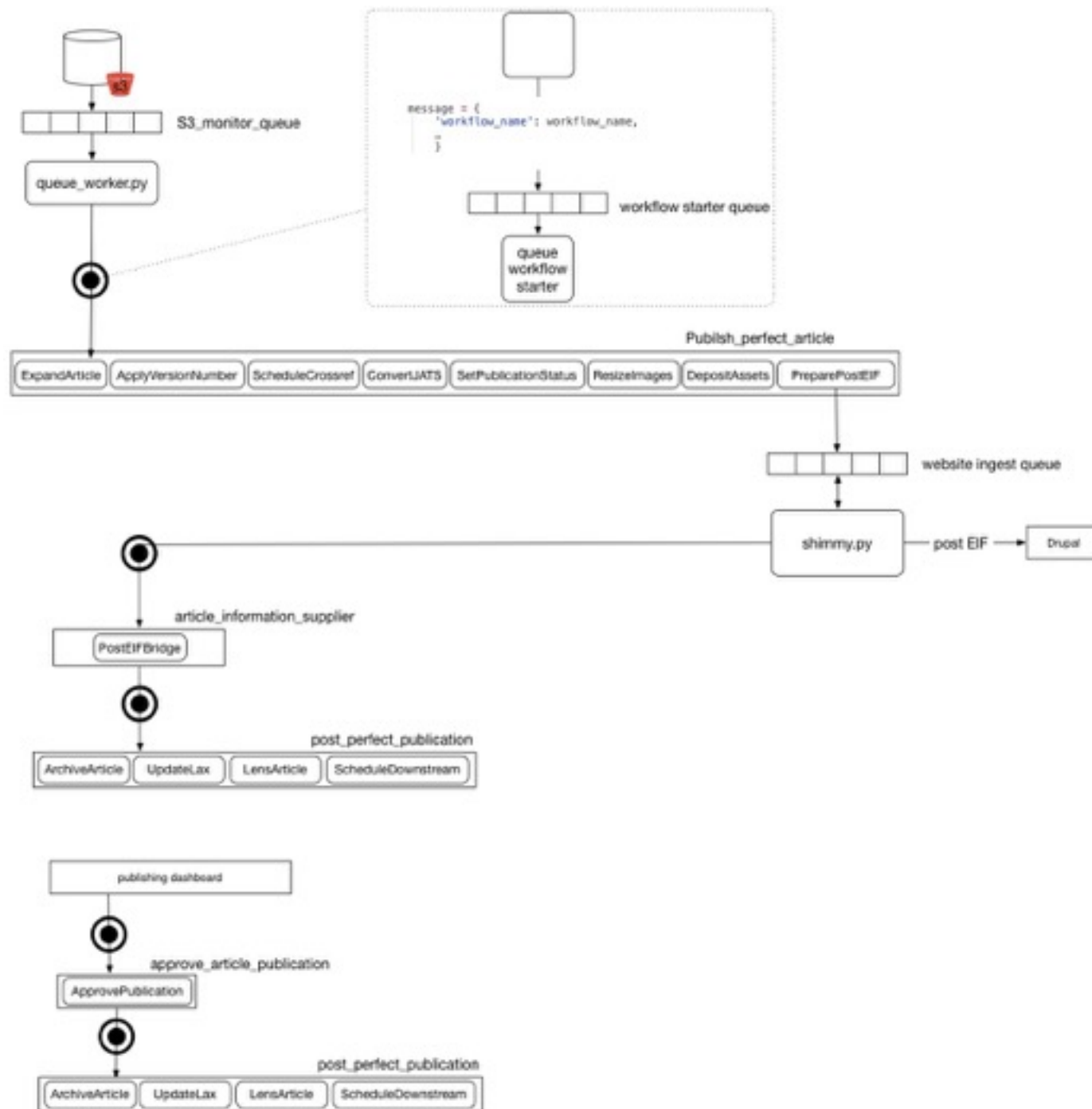
How to participate

1. Type in the question box on the right-hand side of your screen
2. Organisers will read out and answer the questions in order they are submitted.

Thanks for joining us

Please email further comments and questions to us at
staff@elifesciences.org

- **Appendix - supporting slides**



- **supporting slide - main activities supported**

ExpandArticle

unzips the content from the typesetter

ApplyVersionNumber

sets new version number for article

ScheduleCrossref

coordinates crossref deposit

ConvertJATS

XML -> JSON conversion for metadata

SetPublicationStatus

preset as published or private based on configuration

ResizeImages

convert images for web publishing

DepositAssets

populate the CDN

PreparePostEIF

populate Drupal with article

ArchiveArticle

on publication create an archive version of the article

LensArticle

generate eLife lens version of article

UpdateLax

update metadata store with new article version

ScheduleDownstream

prepare delivery to other places, e.g. PMC

- **Installation and Deployment - more details**

1. clone a copy of <https://github.com/elifesciences/builder>
2. create your own private version of <https://github.com/elifesciences/builder-private-example> on github
3. configure AWS and settings using https://github.com/elifesciences/elifesciences-continuum-documentation/blob/master/elifesciences-continuum-docs/create_aws_resources.py and https://github.com/elifesciences/elifesciences-continuum-documentation/blob/master/elifesciences-continuum-docs/configure_continuum_settings.py
4. launch instances of the required services using the `./bldr` command

Deployment remains a little brittle, it's not where we want it to be right now, but should be deployable early next week via builder.