

Developer Meetings

Meeting Schedule and Attendance

DSpace Developer meetings are a time when Committers and interested Developers can discuss new software features, upcoming releases of DSpace software, and generally plan out the roadmap of DSpace. **All meetings are public.** We welcome anyone and everyone to attend, speak their opinions or just listen in on the discussions. Please note that we archive all discussions (see [Meeting Archives](#)), as a service for those who are unable to attend.

DSpace Developer meetings take place on the following schedule:

- **Every Wednesday, alternating between 15:00 UTC and 20:00 UTC (every other week) in #duraspace IRC channel or in #dev-mtg Slack channel** (*these channels sync all discussions*)
 - To determine which time we are meeting at during a given week, please view the [DuraSpace Public Events Calendar](#) (iCal, RSS Feed)
 - Also, see the [world clock](#) (for 15:00 UTC or 20:00 UTC) to determine the meeting time where you live. If you are unsure how to connect to IRC, see our list of [IRC Resources & Clients](#)
- All meetings are held for 1 hour (although, admittedly, discussion sometimes extends beyond that)

You can also subscribe to the meeting schedule via the [DuraSpace Public Events Calendar](#) (iCal, RSS Feed).

Meeting topics often include:


- Recent updates on upcoming DSpace releases, bug fixes or features
- Reviewing of recent reported issues/bugs/feature requests (see [JIRA Cleanup Sessions](#) for more info)
- Occasionally we vote or make decisions on upcoming DSpace technology plans/roadmap (see [Developer Voting Procedures](#) for more info)

If you are unable to attend a meeting, please feel free to add your own notes/comments to the meeting's wiki page.

Developers Meeting on Weds, May 22, 2019

Today's Meeting Times

- DSpace Developers Meeting / Backlog Hour: 20:00 UTC in [#duraspace IRC](#) or [#dev-mtg Slack channel](#) (these two channels sync all conversations)
- **Tim is out-of-the-office from May 24-29, 2019.**

 **This meeting is cancelled next week (Weds, May 29).** Tim is out of the office, and others are busy with OR2019 preparations.

Agenda

Quick Reminders

Friendly reminders of upcoming meetings, discussions etc

- [DSpace 7 Working Group](#): Next meeting is Thurs, May 23 at 14:00 UTC. Agenda: [2019-05-23 DSpace 7 Working Group Meeting](#)
- [DSpace 7 Entities Working Group](#): Next meeting is Thurs, May 23 at 15:00 UTC. Agenda: [2019-05-23 DSpace 7 Entities WG Meeting](#)
- [DSpace Developer Show and Tell Meetings](#): On hold until interesting topics arise.
- [2019 DSpace North American User Group Meeting](#) (Sept 23-24) Call for proposals out!

Discussion Topics

If you have a topic you'd like to have added to the agenda, please just add it.

1. (*Ongoing Topic*) [DSpace 7](#) Status Updates for this week (from [DSpace 7 Working Group](#))
 - a. [DSpace 7 Preview Release](#) is out the door!
2. (*Ongoing Topic*) [DSpace 6.x](#) Status Updates for this week
 - a. 6.4 will surely happen at some point, but no definitive plan or schedule at this time. Please continue to help move forward / merge PRs into the [dSPACE-6.x](#) branch, and we can continue to monitor when a 6.4 release makes sense.
3. [Upgrading Solr Server for DSpace](#) ([Mark H. Wood](#))
 - a. **Auto-reindexing in Solr:**

 [DS-3658](#) - Full reindex (index-discovery) is triggered whenever Flyway finds a new DB migration AWAITING DOCUMENTATION

- i. Should this only happen for **major** releases? Should it be configurable? Can we find a more precise trigger? When **do** we need to reindex?

- b. Dump/restore tool for the authority core. + DS-4187 - Tool to dump and restore the 'authority' Solr core CODE REVIEW NEEDED
Or should we use `solr-export-statistics`?
- 4. [DSpace Backend as One Webapp](#) (Tim Donohue)
 - a. **First phase was merged:** <https://github.com/DSpace/DSpace/pull/2265>
 - b. A follow-up PR will rename the "dspace-spring-rest" module to "dspace-server", and update all URL configurations (e.g. "dspace.server.url" will replace "dspace.url", "dspace.restUrl", "dspace.baseUrl", etc)
- 5. [DSpace Docker and Cloud Deployment Goals](#) (Terry Brady)
 - a. Update sequences on initialization
 - i. <https://github.com/DSpace/DSpace/pull/2362> - update sequences port
 - ii. <https://github.com/DSpace/DSpace/pull/2361> - update sequences port
 - b. [DSpace Launcher Dashboard - Deploy a PR on AWS for Testing](#)
 - i. There is a 2 minute video that illustrates this proposal.
- 6. Tickets, Pull Requests or Email threads/discussions requiring more attention? (*Please feel free to add any you wish to discuss under this topic*)
 - a. Quick Win PRs: <https://github.com/DSpace/DSpace/pulls?q=is%3Aopen+review%3Aapproved+label%3A%22quick+win%22>

Tabled Topics

These topics are ones we've touched on in the past and likely need to revisit (with other interested parties). If a topic below is of interest to you, say something and we'll promote it to an agenda topic!

1. Brainstorms / ideas
 - a. (*On Hold, pending Steering/Leadership approval*) Follow-up on "DSpace Top GitHub Contributors" site (Tim Donohue): <https://tdonohue.github.io/top-contributors/>
 - b. [Bulk Operations Support Enhancements](#) (from Mark H. Wood)
 - c. [Curation System Needs](#) (from Terry Brady)
2. Management of database connections for DSpace going forward (7.0 and beyond). What behavior is ideal? Also see notes at [DSpace Database Access](#)
 - a. In DSpace 5, each "Context" established a new DB connection. Context then committed or aborted the connection after it was done (based on results of that request). Context could also be shared between methods if a single transaction needed to perform actions across multiple methods.
 - b. In DSpace 6, Hibernate manages the DB connection pool. Each **thread** grabs a Connection from the pool. This means two Context objects could use the same Connection (if they are in the same thread). In other words, code can no longer assume each `new Context()` is treated as a new database transaction.
 - i. Should we be making use of `SessionFactory.openSession()` for READ-ONLY Contexts (or any change of Context state) to ensure we are creating a new Connection (and not simply modifying the state of an existing one)? Currently we always use `SessionFactory.getCurrentSession()` in `HibernateDBConnection`, which doesn't guarantee a new connection: https://github.com/DSpace/DSpace/blob/dspace-6_x/dspace-api/src/main/java/org/dspace/core/HibernateDBConnection.java
 - c. Bulk operations, such as loading batches of items or doing mass updates, have another issue: transaction size and lifetime. Operating on 1 000 000 items in a single transaction can cause enormous cache bloat, or even exhaust the heap.
 - i. Bulk loading should be broken down by committing a modestly-sized batch and opening a new transaction at frequent intervals. (A consequence of this design is that the operation must leave enough information to restart it without re-adding work already committed, should the operation fail or be prematurely terminated by the user. The SAF importer is a good example.)
 - ii. Mass updates need two different transaction lifetimes: a query which generates the list of objects on which to operate, which lasts throughout the update; and the update queries, which should be committed frequently as above. This requires *two* transactions, so that the updates can be committed without ending the long-running query that tells us what to update.

Ticket Summaries

1. Help us test / code review! These are tickets needing code review/testing and flagged for a future release (ordered by release & priority)

Key	Summary	T	Created	Updated	Assignee	Reporter	P	Status	Fix Version /s
DS-4044	DataCiteConnector assumes schema version 2.2	🔴	Oct 09, 2018	Oct 25, 2018	Mark H. Wood	Mark H. Wood	🟢	CODE REVIEW NEEDED	5.11
DS-4166	Paginate and searchable mydspace (submission, tasks)	+	Feb 12, 2019	Mar 07, 2019	Andrea Bollini (4Science)	Andrea Bollini (4Science)	🔴	CODE REVIEW NEEDED	7.0
DS-4079	Irrelevant retention of old collection workflow steps when upgrading to xmlworkflow	🔴	Nov 12, 2018	Nov 21, 2018	Unassigned	Jonas Van Goolen (Atmire)	🔴	CODE REVIEW NEEDED	7.0
DS-4036	Delete EPersons in DSpace	🔴	Oct 04, 2018	Feb 27, 2019	Pascal-Nicolas Becker	Pascal-Nicolas Becker	🔴	CODE REVIEW NEEDED	7.0

DS-3695	Solr needs to be upgraded, Solr 4 is EOL	☰	Sep 16, 2017	Mar 22, 2019	Terry Brady	Pascal-Nicolas Becker	↑	CODE REVIEW NEEDED	7.0
DS-4091	Rest api community / collections CRUD	+	Dec 03, 2018	Dec 03, 2018	Kevin Van de Velde (Atmire)	Kevin Van de Velde (Atmire)	↗	CODE REVIEW NEEDED	7.0
DS-4109	Rest api metadata registry CRUD	+	Dec 12, 2018	Dec 12, 2018	Kevin Van de Velde (Atmire)	Kevin Van de Velde (Atmire)	↗	CODE REVIEW NEEDED	7.0
DS-4239	Migrate the workflow.xml to spring	↑	May 02, 2019	May 03, 2019	Kevin Van de Velde (Atmire)	Kevin Van de Velde (Atmire)	↗	CODE REVIEW NEEDED	7.0
DS-4205	Upgrade to Handle Server v9	↑	Apr 02, 2019	May 08, 2019	Unassigned	Tim Donohue	↗	CODE REVIEW NEEDED	7.0
DS-3749	Selective enabling of identifier generation per-container	+	Nov 02, 2017	Mar 30, 2018	Mark H. Wood	Mark H. Wood	✓	CODE REVIEW NEEDED	7.0
DS-3701	Hibernate validation schema failure on Public.Doi	⬮	Sep 26, 2017	Sep 26, 2017	Unassigned	Andrea Bollini (4Science)	✓	CODE REVIEW NEEDED	7.0
DS-2670	Restrospectively create DOI's for alle items in archive	↑	Jul 22, 2015	Mar 30, 2018	Mark H. Wood	Claudia Jürgen	✓	CODE REVIEW NEEDED	7.0
DS-1494	Enable separation of LDAP search credentials from DSpace configuration	↑	Feb 20, 2013	Jul 30, 2018	Mark H. Wood	Brian Freels-Stendel	✓	CODE REVIEW NEEDED	7.0
DS-3385	OAI filter to exclude set from harvesting	↑	Nov 14, 2016	Nov 23, 2016	Unassigned	Ivan Masár	✓	CODE REVIEW NEEDED	7.0
DS-3730	Items and Bitstreams endpoint should only return records that the user is allowed to view	↑	Oct 26, 2017	Oct 31, 2017	Tom Desair	Tom Desair	✓	CODE REVIEW NEEDED	7.0
DS-3736	EPerson REST endpoint should expose groups as a link	⬮	Oct 28, 2017	Sep 29, 2018	Tom Desair	Andrea Bollini (4Science)	✓	CODE REVIEW NEEDED	7.0
DS-4032	RequestItem.isAccept_request() can NPE if setAccept_request() was never called.	⬮	Oct 02, 2018	Oct 02, 2018	Mark H. Wood	Mark H. Wood	✓	CODE REVIEW NEEDED	7.0
DS-3992	Improve the exception handling in DSpace REST 7	☰	Aug 23, 2018	Oct 12, 2018	Michael Spalti	Andrea Bollini (4Science)	✓	CODE REVIEW NEEDED	7.0
DS-3872	More powerful email template language, and a richer set of substituents	↑	Mar 18, 2018	Mar 30, 2018	Mark H. Wood	Mark H. Wood	✓	CODE REVIEW NEEDED	7.0
DS-3951	Send Request Copy email to multiple recipients, and some new recipient strategies	+	Jul 12, 2018	Jul 12, 2018	Mark H. Wood	Mark H. Wood	✓	CODE REVIEW NEEDED	7.0

Showing 20 out of 45 issues

2. Newly created tickets this week:

Key	Summary	T	Created	Assignee	Reporter	P	Status
DS-4257	Deploy Java Backend as a single (Spring Boot) webapp	+	May 21, 2019	Tim Donohue	Tim Donohue	↗	ACCEPTED / CLAIMED
DS-4256	Ability for the EPerson to Login using multiple email addresses	+	May 21, 2019	Unassigned	Paulo Graça	✓	RECEIVED

DS-4255	Support use of AWS roles and profiles for S3 bitstore access	↑	May 20, 2019	Unassigned	Chris Wilper	✓	RECEIVED
DS-4254	Authority control - "Suggest" type is not working	⊘	May 20, 2019	Unassigned	Márcio Gurgel	✓	CODE REVIEW NEEDED

4 issues

3. Old, unresolved tickets with activity this week:

Key	Summary	T	Created	Updated	Assignee	Reporter	P	Status
DS-4223	Metadata Schemas for configurable entities	+	Apr 25, 2019	May 22, 2019	Unassigned	Ben Bosman	⬆	RECEIVED
DS-4184	[Configurable Entities] Refactor "relationship" and "relation" metadata schemas	⊘	Mar 07, 2019	May 22, 2019	Unassigned	Tim Donohue	↑	RECEIVED
DS-4118	change_password and register emails have hardcoded sample addresses	⊘	Dec 17, 2018	May 22, 2019	Unassigned	Rob Jenson	✓	RECEIVED
DS-3658	Full reindex (index-discovery) is triggered whenever Flyway finds a new DB migration	↑	Jul 31, 2017	May 20, 2019	Unassigned	Terry Brady	✓	AWAITING DOCUMENTATION

4 issues

4. Tickets resolved this week:

Key	Summary	T	Created	Assignee	Reporter	P	Status	Resolution
DS-4258	'bin/dspace solr-export-statistics' exports _version_, which breaks solr-import-statistics	⊘	May 23, 2019	Unassigned	Mark H. Wood	✓	CLOSED	Won't Do
DS-4253	Discovery re-index reads all Items into memory, leading to OOM	⊘	May 16, 2019	Unassigned	Chris Wilper	↑	CLOSED	Fixed

2 issues

5. Tickets requiring review. This is the JIRA Backlog of "Received" tickets:

Key	Summary	T	Created	Updated	Assignee	Reporter	P
DS-4256	Ability for the EPerson to Login using multiple email addresses	+	May 21, 2019	May 22, 2019	Unassigned	Paulo Graça	✓
DS-4255	Support use of AWS roles and profiles for S3 bitstore access	↑	May 20, 2019	May 20, 2019	Unassigned	Chris Wilper	✓
DS-4251	test.csv file created when running tests in DSpace 7	⊘	May 16, 2019	May 16, 2019	Unassigned	Raf Ponsaerts (Atmire)	✓
DS-4249	Add support for HTML response in OpenSearch	↑	May 15, 2019	May 15, 2019	Unassigned	Andrea Bollini (4Science)	✓
DS-4248	/license endpoint with 500 (Internal Server Error)	⊘	May 15, 2019	May 15, 2019	Unassigned	Paulo Graça	✓

DS-4247	Revisit the procedure to force a reindex of the system	↑	May 14, 2019	May 14, 2019	Unassigned	Andrea Bollini (4Science)	↘
DS-4246	Recommend use "transform" instead of "translate" in license	↑	May 13, 2019	May 13, 2019	Unassigned	Mark Diggory	↘
DS-4245	NPE in CSV export	●	May 10, 2019	May 10, 2019	Unassigned	Ivan Masár	↘
DS-4244	Missing "dspace-api" Unit Tests for Configurable Entities changes	●	May 08, 2019	May 08, 2019	Unassigned	Tim Donohue	↑
DS-4243	AIP ingestion of metadata-only package fails PREMIS validation when embargoed	●	May 07, 2019	May 07, 2019	Unassigned	Mark H. Wood	↘
DS-4242	Analyze if metadata "place" field can be removed in favor of JSON array ordering in REST API	↑	May 06, 2019	May 06, 2019	Unassigned	Tim Donohue	↘
DS-4241	Missing ITs for Discovery and Configurable Entities	☰	May 06, 2019	May 06, 2019	Unassigned	Andrea Bollini (4Science)	↑
DS-4240	HTML tags not exported in REST Based Quality Control Reports	●	May 02, 2019	May 02, 2019	Terry Brady	Anne Lawrence	↘
DS-4237	CSV batch editing with Entities error when UUID doesn't exist	●	Apr 30, 2019	Apr 30, 2019	Unassigned	Paulo Graça	↘
DS-4235	Lost Authority values when metadata importing	●	Apr 29, 2019	Apr 29, 2019	Unassigned	Paulo Graça	↘
DS-4234	Log level for creating relationships which don't comply to the schema	↑	Apr 29, 2019	Apr 29, 2019	Unassigned	Ben Bosman	↘
DS-4233	Utility class to convert dotted metadata field to schema, element, qualifier	↑	Apr 29, 2019	Apr 29, 2019	Unassigned	Ben Bosman	↘
DS-4231	Embedding/Projections of items in relationships	↑	Apr 26, 2019	Apr 26, 2019	Unassigned	Ben Bosman	↘
DS-4230	Discussion regarding PUT contract in relationships	↑	Apr 26, 2019	Apr 26, 2019	Unassigned	Ben Bosman	↑
DS-4229	SolrService queries a lot of collections and communities on each request	●	Apr 25, 2019	Apr 25, 2019	Unassigned	Alexander Sulfrian	↑

Showing 20 out of 89 issues

Meeting Notes

Meeting Transcript

Log from #dev-mtg Slack (All times are CDT)

Tim Donohue [3:01 PM]
@here: It's DSpace DevMtg time (a minute late). Our agenda is at <https://wiki.duraspace.org/display/DSPACE/DevMtg+2019-05-22>
Let's do a quick roll call to see who is able to join today

Mark Wood [3:01 PM]
I'm here.

James Creel [3:01 PM]
In a session right now at Texas Conference on Digital Libraries :slightly_smiling_face: (edited)

Terry Brady [3:02 PM]
here

Tim Donohue [3:03 PM]
Ok, let's go ahead and get started

First off, I wanted to add a note in here that I will *not* be able to attend this meeting next week (Weds, May 29 at 15UTC). I'm taking a short vacation (out of office May 24-29) before the rush to OR2019 in early June. So if there's anyone interested in chairing this meeting next week, let me know (sometime today or tomorrow). Otherwise, we can always cancel.

(feel free to think on that while we move along to other topics...I'll loop back at the end to see whether we want to cancel or not)

Moving right along... DSPACE 7 PREVIEW RELEASE is out the door! <https://wiki.duraspace.org/display/DSPACE/Dspace+7+Preview+Release>

Just have to celebrate that milestone, even though I know there's more work to do :tada:

In any case, as folks are playing with the Preview, obviously feel free to send along feedback -- positive notes, bug reports, frustrating pieces, etc. It's all good to send along, and it'll help us get things ready for Beta & final

That's really it for the DSpace 7 update this week. It's been a big effort, but thanks to the DSpace 7 WG, DSpace 7 Entities WG and DSpace Marketing WG for helping get this out to the public

In the meantime, the DSpace 7 team is concentrating on OR2019 prep, so there will be code fixes & improvements in the coming weeks, but they will be oriented towards preparing for OR2019 presentations & workshops.

Any comments / questions on DSpace 7 stuff today?

Mark Wood [3:09 PM]

Includes the One WebApp work, right?

Oh, wait, not in Preview.

Tim Donohue [3:10 PM]

The One Webapp work was merged *just after* the Preview. It was part of the "prep for OR2019", so it's on the latest `master`, but not in Preview

Mark Wood [3:10 PM]

Got it.

Tim Donohue [3:12 PM]

Moving right along then. On the DSpace 6 side, I don't have any updates to note. Status there is the same as last time...waiting on volunteers to want to help with packaging up a 6.4

Anyone else with DSpace 6.x updates / comments / questions to share today?

Mark Wood [3:13 PM]

Not here.

Tim Donohue [3:13 PM]

Ok, moving along to other updates

@mwood: Any updates to share on Upgrading to Solr Server work? <https://wiki.duraspace.org/display/DSPACE/Upgrading+Solr+Server+for+DSpace>

Mark Wood [3:14 PM]

No, I need to get back on that. I've had a stubborn local problem to deal with, plus a week off.

Tim Donohue [3:16 PM]

Ok. I'd be interested to hear any "rough details" on what the upgrade likely looks like, so that I can report them at OR2019 (in DSpace 7 Workshop). E.g. Do we feel confident that this is an export & reindex task? If so, do we need to have a new tool, or can we use an existing one?

Mark Wood [3:16 PM]

I have a note from someone regarding his experience with DSpace + Solr 7, to review soon.

Tim Donohue [3:16 PM]

You don't need to answer those now, but that's the basics of what I'd like to know in the next few weeks :slightly_smiling_face:

Mark Wood [3:17 PM]

OK, I'll try to have that nailed down soon.

Tim Donohue [3:18 PM]

That'd be nice. If it's not possible to completely nail down, any "best guesses" are also welcome. I just want to give a status on this, since it's the other possibly "complex" piece of the upgrade (besides the entire UI, obviously)

Mark Wood [3:18 PM]

OK.

Tim Donohue [3:18 PM]

In any case, moving along for now.

As noted above :point_up: , the first "One Webapp" PR was already merged onto `master`. It's not in the

Preview, but was merged right after release: <https://github.com/DSpace/DSpace/pull/2265> This means that all our separate webapps are now combined in the "dspace-spring-rest" Spring Boot webapp. There will be a second phase of this work (likely after OR2019) where the "dspace-spring-rest" webapp will be renamed to "dspace-server" webapp. But, that's mostly just a giant code move -- so, waiting on a slow period (likely after OR2019) to do that. That's it for the updates on "One Webapp". The main idea is there on `master` already, but a rename of the webapp is coming. Any questions / comments on that?

Terry Brady [3:21 PM]
It will be nice to see that effort completed!

Tim Donohue [3:22 PM]
I agree completely! At this point, it's mostly waiting on my time/availability (as the key driver here). As noted, I'll be out a bit in the next week, and I'm having to put all my effort to OR2019 prep at this point. :slightly_smiling_face:
Ok, moving right along to other topics
Next up is Docker + DSpace. Anything you want to update us on @terrybrady? <https://wiki.duraspace.org/display/~terrybrady/DSpace+Docker+and+Cloud+Deployment+Goals>

Terry Brady [3:24 PM]
Yes, I want to chat about <https://terrybrady.github.io/CldAws230/terrybrady.github.io>
DSpace Launcher Dashboard
Deploy a DSpace PR in Docker on AWS for Testing
This is an app running in AWS that will spin up a server with DSpace running in Docker. You can select a specific pull request to initiate.
The app currently allows 2 simultaneous instances to be running. Each instance will be killed after an hour of uptime.
This is my vision for supporting PR testing by DCAT members and other power users.

Tim Donohue [3:25 PM]
Very cool!

Terry Brady [3:26 PM]
I have implemented this as a class project. If this looks promising, I would like for this to find a home.

Mark Wood [3:26 PM]
A wall-clock hour?

Terry Brady [3:26 PM]
Mark, yes
Tim, consider if DuraSpace might want to make this available.
My days as an active contributor are likely limited. If this looks useful, I would love to find a home for the app.

Tim Donohue [3:27 PM]
What is this little app written in? Are there details on that somewhere? Or is the app code somewhere?

Terry Brady [3:27 PM]
Yes the link above has the code. It is python code deployed as lambdas on AWS.

Tim Donohue [3:28 PM]
Oh, I see it now. overlooked it initially: <https://github.com/terrybrady/CldAws230>

Terry Brady [3:28 PM]
I would be glad to do a walk through or a Dev Show and Tell if there is interest.

Tim Donohue [3:29 PM]
Yes, I think that would be awesome. I know I'd like to learn more (after OR2019). I also could promote to other tech folks in DuraSpace/LYRASIS to attend

Terry Brady [3:29 PM]
The branches load really fast. The code currently builds a PR before deployment so those instances take a few minutes to load.
Great. Let's plan to do something in July.
I have about \$80 in AWS credits left from my class, so I am glad to use the credits towards demos of the app.

Tim Donohue [3:32 PM]
Sounds great! Hopefully it's something DuraSpace/LYRASIS would be interested in, but need to understand it a bit better first obviously. In any case, seems like an awesome idea & glad to see it works!

Terry Brady [3:32 PM]

Should we schedule after OR or mark a date now?

Tim Donohue [3:34 PM]

I don't have a strong opinion either way, to be honest. We could put something tentative on the calendar & then start talking more at OR (and elsewhere offline). I completely admit, I don't know what my July schedule will look like yet, as we are heading into the "meat" of the merger (actual merger steps gear up in June/July)

Terry Brady [3:35 PM]

I'll propose something. We can adjust the schedule as needed. I am glad you are interested!
I'll do my class presentation in a couple weeks.
I have a tangential issue to mention if there is time.

Tim Donohue [3:36 PM]

Sounds good. Go ahead then on your next topic. We don't have much left on the agenda

Terry Brady [3:36 PM]

@cwilper asked me about automating performance testing. This is related to a ticket he recently raised. Chris has a set of data that can be used for performance testing DSpace. We might want to figure out a way to do automated performance tests on PR's or on our master branch on a periodic basis.

Tim Donohue [3:38 PM]

I know Chris also has some early notes here: <https://wiki.duraspace.org/display/DSPACE/DSpace+7+Performance+Testing>

Terry Brady [3:38 PM]

The AWS solution I mentioned above could be useful, or we might want to look at some additional CI tools that could assist us.
I was at a devops meetup and some folks recommend CircleCI which seems to offer some free tier options for open source projects.
This might be a good issue to start tracking in these meetings. Perhaps it could be tackled after the formal DSpace 7 release.

Tim Donohue [3:40 PM]

That's something I'd be interested in seeing happen (automated performance tests on a semi-regular basis -- not sure if it needs to be per PR, but maybe that'd be nice). I admit though I have no experience on how to make that happen...glad others have thoughts though

Terry Brady [3:41 PM]

Neither do I, but it seems much more feasible now that we have an infrastructure for building a test instance with data.

Tim Donohue [3:42 PM]

Yes, agreed. Our Docker setup + our new DSpace 7 test environment in general should combine to make this a bit easier.
In any case, I'm open to the ideas. Prior to DSpace 7 final, I think we definitely need to do some extensive, ongoing performance testing... maybe based on that we can figure out a way to automate it more (even if that ends up being post-DSpace 7.0)

Mark Wood [3:44 PM]

Step 1 is figuring out what is acceptable performance. Maybe step 0 is "what do we mean by performance?"

Terry Brady [3:45 PM]

From a batch processing standpoint: Index X thousand items in under Y min.

Tim Donohue [3:45 PM]

Yes, I think those are both things we can figure out a bit better in the (manual) performance testing of DSpace 7. We may find some parts easier to automate than others, and we'll get a better sense of what "looks good" and what is "too slow" (at least at a UI / REST API perspective)

Mark Wood [3:46 PM]

I would say that performance work starts with "is it good enough that we can release this without embarrassment?". After that, "can we make it better enough to be worth the effort of doing so?"

Tim Donohue [3:47 PM]

Yes, I think we're saying the same thing from different perspectives.
Ok, it sounds like this topic is wrapping up. We just have a note to continue to talk Performance testing & start to get our minds around whether any of it can be automated
I realized at the top of this meeting, I forgot to remind folks that the DSpace 7 Entities Working Group is "restarting" tomorrow. It's meeting is immediately after the DSpace 7 WG meeting (in the same place).

Agenda for that Entities WG meeting is at <https://wiki.duraspace.org/display/DSPACE/2019-05-23+DSpace+7+Entities+WG+Meeting>

Beyond that, I don't think I have any other major topics to bring up for today. Does anyone else here have topics to discuss in the last 9 mins?

Mark Wood [3:51 PM]

You may have noticed that I'm trying to draw attention to a few un-sexy back-end PRs. <https://github.com/DSpace/DSpace/pull/2397> tries to fix our Hibernate cache configuration.

Tim Donohue [3:52 PM]

oh, yes, they are worth mentioning as a reminder to folks here :slightly_smiling_face:

Mark Wood [3:53 PM]

<https://github.com/DSpace/DSpace/pull/2116> moves the list of metadata registries loaded at install time out of the code and into the configuration. This may be of interest w.r.t. Entities.

Tim Donohue [3:54 PM]

I'll note that I've made sure both are on the list for the DSpace 7 team too -- with a bolded note about needing more reviews (see #9 and #11 on the list): <https://wiki.duraspace.org/display/DSPACE/2019-05-23+DSpace+7+Working+Group+Meeting#id-2019-05-23DSpace7WorkingGroupMeeting-PRsNeedingReview>

Mark Wood [3:54 PM]

And I just de-conflicted <https://github.com/DSpace/DSpace/pull/1992> again since it addresses a new Jira issue about using configuration variables in email templates. Thanks for that note.

Tim Donohue [3:54 PM]

Oh, I forgot about that one (#1992). Yes, we should get that on the list too

Mark Wood [3:56 PM]

Folks who have Hibernate performance issues may want to take a look at the caching patch. At least it should make cache tuning efforts actually work rather than being ignored.

Tim Donohue [3:56 PM]

BTW, while we are talking "boring" backend PRs needing review. I have one too: <https://github.com/DSpace/DSpace/pull/2425> This just updates some dependencies to get us off of versions that have known security issues.

Mark Wood [3:56 PM]

That's at +1 from me.

Tim Donohue [3:56 PM]

Yes, #2425 just needs a second reviewer

Mark Wood [3:59 PM]

That's all the patches I'm pushing today.

Tim Donohue [3:59 PM]

Ok, it sounds like we are ready to wrap up today. If anyone here has some extra time for reviewing / testing in the coming days, take a look at the PRs listed above :point_up: None of them are massive, and several are quite easy to review/test quickly.

One final question. Do you all want a meeting on the calendar for next week? Or should I cancel it?

(I know this is deep into OR2019 prep at this point, so if you need the hour to do prep, etc. we can cancel and touch base later)

Mark Wood [4:00 PM]

I can moderate, if we want to meet.

Terry Brady [4:01 PM]

It seems like we covered a lot of ground today. Perhaps we can skip.

Mark Wood [4:01 PM]

I'm okay with that, too.

Terry Brady [4:02 PM]

I'll be traveling 6/5, so OR may be my next time to meet.

Tim Donohue [4:03 PM]

Since this meeting tends to be pretty low attendance anyhow, it sounds like we should cancel :

slightly_smiling_face: Honestly, there will not be many updates between here and OR2019...and if you want them, jump into one of the DSpace 7 WG meetings. We can touch base at OR2019

Thanks all! Have a good rest of your week. I'll take next week's meeting off the shared calendar & add a note

in today's agenda that we'll cancel

Mark Wood [4:03 PM]
Thanks, all.

Terry Brady [4:04 PM]
Have a good week (or weeks)!

Meeting Archives

Notes and Transcripts from all recent Developers Meetings are available off of the [Developer Meeting Archives](#) page.