DSpace 7.5 Community Q&A Session
March 29, 2023, 14:00-15:00 UTC

To Register: https://lyrasis.zoom.us/webinar/register/WN_W5tM09fRQ16qEXGWKaR6JA
SLIDES: DSpace 7.5 Q&A Webinar
RECORDING: https://www.youtube.com/watch?v=AYZuoaH24Cc

Question and Answer List:
1. We can export a csv of the items uploaded in each collection/community in our repository?
   a. ANSWER: It's unclear what you are asking for here. A few tools of this sort already do exist. In DSpace 7, it's already possible to export Item metadata to CSV using the Batch Metadata Editing tool (in Admin User Interface). There is also work to "port" the old "Rest Quality Control Reports" (which provided generated reports) to 7.x or 8.0. (Those reports already can be used in 7.x if you enable the older, deprecated REST API alongside the new REST API. The work is just to "port" them over to use the new REST API). If neither of these are what you are asking for, then I'd recommend submitting a feature ticket describing the use cases (or see if such a feature ticket already exists): https://github.com/DSpace/dspace-angular/issues
2. Do you plan to release a production ready docker version? The actual version why not ready to use in production?
   a. ANSWER: There is some work to create a more "production-friendly" Docker setup in https://github.com/DSpace/dspace-angular/pull/2137 . However, providing a Docker install that will work in all production scenarios may not be easily possible, as any major customizations (like new or updated themes) may require updating or extending any Docker images we can provide. The main reason the current Docker images are not recommended to be used in Production are that they install development tools, open development ports and also run the entire User Interface in "dev mode". This is because these Docker scripts were built for development and never adapted for production. The above PR creates a new production-ready image that fixes some of these issues (but it's still under review/testing).
3. Any pointers for server or servers spec for a DSpace production instance? Does one really require two (2) servers for a prod instance?
   a. ANSWER: Two servers are not required. The UI and REST API can be run on the same server or separate servers, it's entirely up to you. We do have some "bare minimum requirements" for the server listed in this page of the documentation: https://wiki.lyrasis.org/display/DSDOC7x/Performance+Tuning+DSpace Keep in mind, most active sites will need *more* than this bare minimum.
4. Any guidance on migrating from DSpace 5.x & 6.x with configurable entities?
   a. ANSWER: Configurable Entities are not required to perform an upgrade to DSpace 7. They are disabled by default. So, to simplify the upgrade process, you may wish to simply *keep them disabled* and enable them at a later time (whenever you feel you need them). Currently, because Configurable Entities are such a new feature, there are no migration scripts to move older Items into newer Entities. That said, any Item can be manually "transformed" into an Entity simply by adding the "dspace.entity.type" metadata field, and setting it's value to an Entity Type ("Person", "Publication", etc.). In the future (it may not be until 8.0), I expect we may have migration scripts or

step-by-step recommendations provided to allow sites to migrate Items to Entities. In the meantime, you can simply keep Items as-is. It is not required to migrate them to Entities. Even if you choose to enable Entities, it is possible to have both Entities and default Items in the same DSpace.

5. May you coordinate a database of DSpace experts (individuals) willing to provide training or consultancy at affordable rates? I find existing entities out of reach for many.
    a. ANSWER: DSpace has a published list of "Registered Service Providers". These are organizations around the world who are known DSpace experts & who regularly give back to DSpace (either via code or via funding). They can be hired to customize or host your DSpace based on your own requirements: https://dspace.lyrasis.org/rsp/ Outside of those Service Providers, the Support lists are a great resource for simply asking for help or finding additional support.

6. Will the statistics module allow users to access historical statistics?
    a. ANSWER: I'm not sure I understand this question or what is meant by "historical statistics". But, the existing DSpace 7 statistics allow you to view some basic historical reports of Site, Community, Collection and Item hits/views. If you require more detailed reporting, it is also possible to install a Google Analytics key and use Google Analytics for detailed reporting.

7. ¿Cuál es el procedimiento para migrar los documentos de Dspace 6.3 a Dspace 7?
    a. ANSWER: Our upgrade procedure is at https://wiki.lyrasis.org/display/DSDOC7x/Upgrading+DSpace This includes all the steps necessary to migrate all data from 6.3 to 7.x. Alternatively, it's also possible to simply install a fresh copy of DSpace 7 (with no data yet), and migrate your old 6.3 data over into it. That process is detailed on this page: https://wiki.lyrasis.org/display/DSDOC7x/Migrating+DSpace+to+a+new+server

8. ¿Existe dentro de esta nueva versión la opción de cargas masivas de documentos y sus metadatos?
    a. ANSWER: I'm not sure how "massive" you are talking about, but there are a variety of ways to import data in bulk into DSpace:
        ■ Bulk import using the "Simple Archive Format" to describe metadata and files. This can be done from the commandline or from the Admin UI. When done from the UI, there is a limit to the size of content you can upload at once.
        ■ Bulk import using AIPs / Package format. Works the same as "Simple Archive Format", but the import format is different. This one is a METS-based XML file
        ■ Bulk import via SWORD (v1 or v2). SWORD is a protocol for importing content into different repositories, and DSpace supports it.
        ■ Because DSpace has a full-featured REST API, it's also possible to write a custom script to import content in bulk. It's possible to do this either via the endpoints used by the "Simple Archive Format" or AIP format above… or you can just submit items directly via the REST API.

9. ¿Es posible en esta nueva versión integrarse con formularios de premarcación?
    a. ANSWER: I may need a better English translation of this question, as I'm not sure if I understand the translation from Google Translate. Google Translate says: "Is it possible in this new version to integrate with pre-dial forms?" Unfortunately, I don't know what a "pre-dial form" is.
    b. I'm not OP but I guess they mean markup forms.

- Thanks for helping. Unfortunately, I'm (Tim) still not understanding what is meant by "markup forms"? That's not a phrase that is used in DSpace, so I don't understand the context of this question.

10. ¿Es posible uniformizar el DSPACE+CRIS en todas las universidades nacionales que recopila información el CONCYTEC para la gestión de la investigación (Investigador, Laboratorios, resultados de esa investigación)?
    a. ANSWER: This sounds like a possible question for DSpace-CRIS or CONCYTEC? I (Tim) am not involved in either. DSpace-CRIS is an entirely separate project from DSpace, and it's managed by 4Science. LYRASIS & Tim are not involved with DSpace-CRIS, so we cannot answer questions about it.

11. What's the most common use case or "must-have" argument for enabling entities in DSpace 7? We are currently on version 6 and unsure of turning this feature on after we migrate to 7.
    a. ANSWER: Entities are definitely not required, and you can run v7 without them and decide to turn them on at a later time. Primarily, Entities give you the ability to "link" together related objects, and represent new types of objects (e.g. Author profiles linked to their publications, etc). Entities are also required if you wish to use one of the following features (as they both depend on the "Person" Entity):
        - Researcher Profiles
        - Sync your profile with your ORCID account
    b. That all said, I'd honestly recommend *not* enabling Entities unless you really need them. Currently, there are some known limitations: AIPs don't support Entities, and there's no way to currently bulk migrate existing, "regular" Items to Entities (though you can have regular Items and Entities in the same DSpace).

12. Does 7.5 still have the REST endpoints from DSpace 6 available? Is there any word yet on the future/removal of those x6 endpoints? We have dependencies on them and might need more time to migrate everything and everyone off of it.
    a. ANSWER: Yes, the older REST API which came with DSpace v4-6 is still available in DSpace 7. However, it's disabled by default. Information on enabling/installing it is available in the documentation at https://wiki.lyrasis.org/pages/viewpage.action?pageId=104566810 This older REST API will be removed in DSpace 8.0. So, you can still use it in v7, but should plan to migrate older scripts over to the new REST API prior to v8.

13. Top tips for migrating from 6 to 7.5
    a. ANSWER: A few tips.
        - There are two ways to perform this upgrade. You can either upgrade "in place" by following the Upgrade Guide. Or, you can install DSpace 7 & get everything setup how you want…and then migrate your content from 6 to 7 per our "Migrating DSpace to a new server" guide.
        - I'd personally recommend leaving Configurable Entities disabled until you need them. They are not required. You can always enable them at a later time if you decide to use them.
        - If you hit errors/problems in the install/upgrade, we have a detailed Troubleshooting guide for finding the underlying error message. *Usually* the underlying error in a new install is one of the Common Installation Issues listed in our documentation. If you need more help though, see our Support guide.

14. Es posible listar relaciones transitivas. Por ejemplo si una organización tiene autores y los autores tienes publicaciones listas las publicaciones de los autores en la entidad sin definir la relación organización publicación.
    a. ANSWER: I'm not sure if I understand this question. But, all relationships are optional. You can define Author to Publication relationships even if you don't link Organizations to the Authors. And, yes, it's possible to list all Publications of an Author on the Author Entity page (see our demo site for examples. Here's an author entity which has many publications: https://demo7.dspace.org/entities/person/b1b2c768-bda1-448a-a073-fc541e8b24d9
    b. bis asking again: Is it possible for an entity to display the posts of their authors without having to declare one-to-one relationships? The idea is that the relationships are virtual and the publications are shown inherited from the authors that are related to each unit without formally declaring them.
        Example:we have the entities: OrgUnit, Person, and Publication and the relations:
        isOrgUnitOfPerson between OrgUnit and Person
        isAuthorOfPublication between Person Publication
        Is it possible to list the posts of an OrgUnit as a grouping of all the posts its members have without formally declaring them?
        ■ ANSWER #2: Currently, as of DSpace 7, Research-related Entities (Publication, Project, Person, OrgUnit) do not "inherit" relationships in a hierarchical fashion. The data model is diagramed in the docs at https://wiki.lyrasis.org/display/DSDOC7x/Configurable+Entities#ConfigurableEntities-ResearchEntities   That said, the Journal-related Entities (Journal, Volume, Issue, Publication) *do* inherit relationships as you are describing because there is a defined hierarchy built into those Entities.   So, I think it *is* possible to build this sort of inheritance into OrgUnit -> Person -> Publication, but it currently doesn't exist in the code… so I don't believe it works out-of-the-box. It would require custom coding. I'm not sure offhand how to make this happen (as I didn't build any of this code), but the Journal hierarchy behavior would be useful to look at. If you had more questions on this, you could try the dspace-dev list…maybe one of the other developers there would have ideas.
15. Como se modifican las páginas de entidades en angular, por ejemplo añadir nuevas pestañas de búsqueda
    a. ANSWER: You'd have to modify the Angular templates or components for those Entities. We don't have a step-by-step guide for how to do detailed modifications of Entity pages yet. However, all Entity pages/components are under the "src/app/entity-groups" folders in the codebase: https://github.com/DSpace/dspace-angular/tree/main/src/app/entity-groups   Under there, you can find the code for each individual Entity page. For instance, the Person Entity's "item page" is defined here: https://github.com/DSpace/dspace-angular/tree/main/src/app/entity-groups/research-entities/item-pages/person

16. Podemos ver un ejemplo de entidad proyecto con metadatos funder, código…. Relacionada con autor, publicación y unidad? No hemos encontrado ninguna con todas las funcionalidades en producción
    a. ANSWER: At this time, all the example content we have is available on our demo site (https://demo7.dspace.org) or via the demo Entities Data set which you can install/use via Docker as described on this page: https://wiki.lyrasis.org/display/DSPACE/Try+out+DSpace+7   Because Entities are so new, and not everyone is using them yet, I don't have an example of a Project Entity being used in production. You could also ask on our dspace-tech mailing list to see if anyone has one they would share with you.
17. Is it possible to customize the *Administer Workflow* submenu so that the admin also has the option to push items directly back into the shared workflow pool and not have to return them completely to the submitter? This seems to me much more user friendly and saves an unnecessary resubmission, if the item needs to be taken over by a new agent.
    a. ANSWER: This likely would be possible. You are welcome to submit an issue ticket to request this & we can look for a volunteer who might be willing to create it: https://github.com/DSpace/DSpace/issues   I agree, that'd be a nice option to offer. I'm not sure offhand how complex that would be, but it seems very possible.
18. Trabajo en una Institución Educativa, ellos tienen alquilado un hosting para su página web, ¿Se puede instalar el DSpace?
    a. ANSWER: Yes, DSpace is completely free to use/install anywhere. It's open source software and you do not need to pay for it. That said, if you need help, we do have DSpace Service Providers you can hire to either host the software for you, or install it for you on your own servers. You are not required to use a service provider though, and many institutions install it on their own.
19. I'm concern about stability of updates. There are any plans to offer a deb package (build into CI/CD process), so the installation would be `apt install dspace-backend`/`-frontend` and hopefully upgrade just `sudo apt update/upgrade`? Maybe just adjusting version (`deb http://debian.dspace.org/dspace 8.0 main`) on `/etc/apt/sources.list.d/dspace.list`
    a. ANSWER: While I'm (Tim) definitely not against this approach, there are no current plans to provide installation packages specific to one OS or another. That said, the majority DSpace development is *donated work*. So, if you or anyone else are interested in building a "proof of concept" installation script of this sort… it could inspire others to collaborate and make this a reality. I suspect building a deb package would be harder than it appears, especially for sites that wish to install a custom theme or similar. That said, I would support someone creating a "proof of concept" that this is possible…and, if successful, I'd help support finding funding/volunteers to finalize the work. Overall, it's a nice brainstorm, but I think we'd need a proof of concept that this deb package model would be possible for DSpace.
20. I usually visit demo7.dspace.org to test some features but in most cases I can't do it. We all create our community and our collections to do some deposits but I can't check the new features in some release like 7.4 or 7.5. Is there a community created to see and test the new features? For example new 7.5 "Browse By" from item page (webui.browse.links) or pre-register handles or doi's, "show identifiers"

a. ANSWER: I'm not entirely sure which features you are referencing here. If there's a feature that we've missed enabling on the demo site, let us know (as that does happen…sometimes we simply forget to enable a specific feature). Also, it's worth noting that we are working on an overhaul of our demo site. We've found that other users quickly add so much test content that the "example" content becomes hidden or difficult to find (which can make that demo site less useful to others just looking for those examples). In the next few months, we hope to update the demo site to allow us to more easily control (and reset) the content so that examples are easier to find. This may help solve the scenario you are encountering.

21. I just read some answers about whether or not to activate entities. I'm surprised it's still not recommended enabling them. I have read in the same answers that there are certain tools like AIP that do not support relationships but are there more reasons for it? We are thinking of using them to search and select authors in a friendly way, for example. We like how it interrelate publications with persons, but these opinions give us a bit of prudence. Are there other reasons for that recommendation?

a. ANSWER: Whether you enable them or not is up to you obviously. However, I've (Tim) found that many institutions find Entities a bit "overwhelming" in the upgrade to 7.x. So, if you want a more straightforward upgrade, leave them disabled for now. You can use DSpace 7 without them perfectly fine & perhaps choose to enable them later after the upgrade is completed. It's also worth being aware that there is currently no "bulk migration" script to turn older Items into Entities. Some institutions may find that a concern as well. Entities are a very powerful tool & definitely are the future of DSpace. However, at this time they are an *advanced user* style tool…they are not fully integrated into every aspect of DSpace yet (like the AIP backup & restore process), and there's no way to easily migrate all old content into Entities. But, if you are OK with both of those major limitations, then definitely feel free to enable them! I do suspect that at some point in the future, Entities will be required, but that won't come until v8 or v9 at the earliest… for now, enable them if you want them!

22. What is the best way to search for specific metadata in DSpace 7? For example: *Show me all workflow items submitted on March 1st*? Is it possible to adjust the date filter to the exact day?

a. ANSWER: We have [Advanced Search documentation](#) which describes how to search in a specific metadata field. So, for example, you can search "dc.title:test" (without quotes) and find all documents with "test" in the "dc.title" field. There are also examples of range-based searching to search specific date fields in a specific range.

23. ¿Es posible suplantar a un usuario, como en versiones previas? Is it possible to impersonate a user, like in previous versions?

a. ANSWER: Yes, this is possible as of 7.0. See the [7.0 Release notes](#) under "A new Admin sidebar" for details of how to use it. By default, it's disabled but can be easily enabled by adding "webui.user.assumelogin=true" to your local.cfg on the backend.

24. According to the [DSpace documentation](#) DSpace 7.x supports PostgreSQL versions 11, 12 and 13.The end of life dates for those versions are 2023-11-09 (this year!), 2024-11-14 and 2025-11-13. Does DSpace 7.x already support PostgreSQL version 15? Are there plans to support it officially?

a. ANSWER: Currently, we have not tested with PostgreSQL 15 simply because v13 is under support for 2.5 more years. That said, if anyone finds time to test with v15, it is possible that it may work already. If it does, let us know and we can do some final

testing to add support. If v15 doesn't work already, then we recommend adding a bug ticket to https://github.com/DSpace/DSpace/issues with the error that is thrown.

25. What is the situation and your plans regarding the accessibility of the DSpace 7 user interface? The EU legislation requires accessibility for web services. The current DSpace 7 interface does not fulfill these requirements properly - for instance, on the demo site the search result page contains multiple errors (and warnings) when evaluated with the automatic tool WAVE. There are problems on many other pages as well. This is a major problem for our upgrade plans, and I wonder if there will be a way to fix these issues even if the development of new features for DSpace 7 ends with version 7.6. It seems to me that these deficiencies are likely to be a problem not only to us but also to multiple other actors all around Europe.
    a. ANSWER: Any accessibility issues found should be considered as bugs & reported to our issues list at https://github.com/DSpace/dspace-angular/issues . We did have a third-party accessibility scan early on in the DSpace 7 development, and we've been working through the accessibility issues found based on priority (and based on ability to find a volunteer). We still have some known issues remaining, all tagged with "accessibility": https://github.com/DSpace/dspace-angular/issues?q=is%3Aissue+is%3Aopen+label%3Aaccessibility Many of the remaining issues are simply waiting on a volunteer… While a few are complex & depend on fixing libraries we use, most should be possible to solve in the theme layer. The more help we get in this area the more quickly we can move. We do agree that accessibility is a priority for DSpace & each release is fixing more and more issues. If you are interested in helping in this space, volunteer for a ticket or get in touch.

26. Are there plans to enable the use of facets on the community and collection pages as they were used in the previous versions? At the moment it seems that you have to do a search to get any overview of the content.
    a. ANSWER: There is a ticket requesting this feature: https://github.com/DSpace/DSpace/issues/8426 Currently, it's under development by DSquare (one of our service providers) and hopefully will be in the 7.6 release (if all goes well).

27. I am afraid if this is too basic or too general, but I am about to set up a new system and wonder how to manage the files (git). I assume it is clever fork the 4science repos (DSpace, dspace-angular), to pull the sources from 4science (upstream) merge them with the local adaptions on the development environment and, when working stable, pass them to the production environment. And from time to time copy the user data manually from production to develop-environment, to be working on current data. What is a recommended way (which branches, file groups)?
    ● ANSWER: The "4Science" repositories are for DSpace-CRIS and are managed by 4Science. DSpace-CRIS is a different product from DSpace, and is maintained by 4Science, so they'd need to answer the best way to do this. However, if you were using the core *DSpace* repos (DSpace, dspace-angular), you could fork them as you describe and pull changes from (upstream). In that scenario, it's best to use the tags for each version (e.g. 'dspace-7.5' tag is v7.5), or "main" if you want to follow the very latest code. However I would not run "main" in production as it is not always stable. Tagged releases are stable.

27. Tengo un nuevo esquema de metadatos y quisiera que uno de los campos sea visible en la vista simple del item, ¿cuál sería el procedimiento para este caso? I have a new metadata schema and I would like one of the fields to be visible in the simple view of the item, what would be the procedure for this case?
    a. ANSWER: For a basic "Item" (non-Entity), the "simple view" is defined by the "untyped-item" component in the UI. Here's the HTML where every metadata field that may appear on the "simple view" is listed: https://github.com/DSpace/dspace-angular/blob/main/src/app/item-page/simple/item-types/untyped-item/untyped-item.component.html   You could simply copy one of the existing "ds-generic-item-page-field" tags in that page and add your own field. If you run into problems, you could ask on the Support lists
28. Can we do duplicate checking in 7.5?
    a. ANSWER: No, the code was not stable enough to be accepted into 7.5. Currently it's been rescheduled for 8.0, but it requires additional work/reviews before it can be merged. Here's the tickets: https://github.com/DSpace/dspace-angular/pull/1732 and https://github.com/DSpace/DSpace/pull/8415
29. Will 7.6 have all themable components (angular side)? Currently, we can't theme, for instance, authentication form itself (we can only change the page), or change Shibboleth button
    a. ANSWER: We are adding new "themable components" in every single release. I cannot guarantee that *every* component will be themable by the 7.6 release…but any that are missing could be added to a later 7.x release (as they would be considered bugs). We also welcome contributions in this area…if anyone wants to send us a PR to make specific components themable, we will work to get that added into the codebase immediately.
30. It is possible to embed Tomcat on the server side, are there any experiments done?
    a. ANSWER: At this time, I don't believe this will work. I (Tim) tried using an embedded Tomcat with 7.0, but ran into issues at the time that were hard to resolve. That said, I haven't tried again more recently, so it's possible this is easier in a newer version of Spring Boot (as we've upgraded Spring Boot several times since 7.0). So, I'd welcome more experiments and testing in this space…but I wouldn't be surprised if it doesn't immediately work. If you are interested in helping in this space, get in touch or create a ticket to let us know you are investigating it: https://github.com/DSpace/DSpace/issues
31. Will Researcher Profiles use a different field besides person.email for binding with an eperson?
    a. ANSWER: Yes, after consulting with the documentation on Researcher Profiles, I've verified that a Researcher Profile (Person Entity) is linked to an EPerson via the "dspace.object.owner" metadata field.
32. En nuestra instalación de prueba de Dspace 7.4 utilizamos el protocolo OAI para recolectar items de fuentes externas, constatamos que se nos presenta el mismo problema que tenemos hoy en día con la versión 5.7, donde los ítems pierden alguna metadata cuando se actualizan en la fuente externa y Dspace toma esa actualización. Se pierden los metadatos: dc.identifier.uri, dc.date.available y dc.date accesioned. Este es el issue que encontré reportado en versiones anteriores: https://github.com/DSpace/DSpace/issues/4721. Necesitamos que este bug que persiste en la versión 7, se solucione. Por lo que quería saber si lo tenían mapeado o si necesitan que lo reportemos en esta versión para que lo puedan evaluar?

a. ANSWER: It looks like the ticket you reference ([#4721](#)) was closed because it discussed code which no longer exists in DSpace 7. If you are seeing this same behavior however in DSpace 7.4, then I'd recommend resubmitting a new issue ticket so that we can understand the problem you see: https://github.com/DSpace/DSpace/issues Please send along as many details as you can on how to reproduce the issue.. Especially if you are aware of a step-by-step process which always causes bad/incorrect behavior.

33. ¿Cómo activar entidades y relaciones? Existen varios comandos, pero aparentemente hacen cosas muy diferentes
    a. ANSWER: Activating Entities is described in the documentation at https://wiki.lyrasis.org/display/DSDOC7x/Configurable+Entities#ConfigurableEntities-EnablingEntities   It's unclear what issues you are running into, so you may want to ask on the Support lists if you are still having problems.

34. Con respecto a las hojas de carga: Cómo debería ser el mapeo de las colecciones? Ya que, por alguna razón, al activar el mapeo no nos permite cargar una colección determinada.
    a. ANSWER: It sounds like you might be asking about how to configure the Submission forms for particular Collections? If so, currently, you must configure each Collection to use a specific Submission form in the "item-submission.xml" configuration file on the backend. This is unfortunately not yet editable in the User Interface, so you must modify the XML file directly. See the documentation at https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface#SubmissionUserInterface-AssigningacustomSubmissionProcesstoaCollection

35. Por qué Dspace, al crear la colección, no permite seleccionar el proceso de carga? (Ejemplo: person-edit). Muchas gracias por brindarnos este espacio.
    a. ANSWER: I'm not understanding this question unfortunately. It might be similar to the previous question, which was asking how to configure the submission form for each Collection. If so, see my answer to the previous question (number 34).

36. Can we have in the processes list an entry to the curation / process name (ProcessID   Name   User   Start time (UTC)   Finish time (UTC)   Status   Actions), the Name is always curate, but I would like to see NOOP/Virus Scan, etc.? And can we have in the curation task results (Process Output) the possibility to add a link to the item? It was possible in 5 and now all href is stripped, now it is plain text.
    a. ANSWER: In the Processes list in the Admin UI, you can see the Curation Task name if you click on the "curate" process. But, you are correct, it doesn't yet appear in the Process list. You could submit a ticket to request that feature. We'd likely need to find a volunteer to customize this display for curation tasks: https://github.com/DSpace/dspace-angular/issues   I'm not sure I understand the second point here about behavior that existed in v5 that no longer exists in v7. It's possible that we overlooked an older v5 feature of curation tasks though. Again, you are welcome to submit a bug ticket to describe what is missing in v7 that you used to see in v5 (it'd be helpful to share screenshots from v5 if you can). Then we can look at ways to achieve the same thing in v7.

37. Can you talk a little bit about the potential for multi-tenancy (i.e multiple institutions sharing one instance of DSpace) in 7.x vs. previous versions?
    a. ANSWER: I answered this a bit in the session. It really depends on what you mean by "multi-tenancy". It *is* possible to run the same DSpace REST API (backend) with

many clients (you need to "trust" each client though from the backend's "rest.cors.allowed-origins"). But, if all the clients share the same backend, then they will see the same "content" (you might be able to customize each client to only "view" a specific Community, but that'd require custom code at this time). It also is possible (like in 6.x) to provide Admin permissions at the Community/Collection levels, so that multiple institutions can use the same DSpace backend, but only have access to manage their Community/Collection…and similar to 6.x you can theme each Community/Collection separately. Currently, the DSpace UI is built more with this option in mind…but it could be possible to allow the UI to act in a more multi-tenant fashion. It's just not a feature of 7.x at this time. Brainstorms and issue tickets are welcome in this space though, it just wasn't a primary goal of 7.x: https://github.com/DSpace/dspace/issues

38. Page similar to JSPUI statistics in the next release dspace 7.x ?, we currently have version 6.3
    a. ANSWER: DSpace 7 already has basic access/usage statistics. It's unclear to me what you are referencing when you say "page similar to JSPUI statistics". If you see a feature of 6.x that isn't in 7.x though, you are welcome to create a ticket to describe the missing feature. It's helpful to provide screenshots to remind us of how this all looked in 6.x as necessary. https://github.com/DSpace/dspace-angular/issues

39. We have more than 5 million records, are we waiting for version 8 or should we go to 7.5? we 20GB ram 550 GB disk, is it enough?
    ● ANSWER: I see no reason to wait on version 8. That said, if you encounter slow behavior with 5 million records, please do let us know…we'd consider that a bug & would do our best to resolve it. We do have a Performance Tuning guide for DSpace 7 that you also should be aware of : https://wiki.lyrasis.org/display/DSDOC7x/Performance+Tuning+DSpace

40. Is it possible to create new component pages in DSpace 7.5 theme and register them into the routing-service? So can I modify the page-routes inside a theme? Are there tutorials or references for that?
    a. ANSWER: I (Tim) am actually not sure this is possible in a Theme. Obviously, you can modify the routes in the main code itself. But, I'm not sure if there's a way to do this yet in the "src/themes" directories. I need to ask myself if it's possible.. I'll try to remember to ask in the next Dev Meeting. You can also ask via one of the Support lists as developers who built the themes are on there.
    b. Okay, thank you for your help. I think I'll ask it via dspace-tech

41. Will DSpace support Multi-Factor Authentication (MFA)?
    a. ANSWER: DSpace doesn't currently have MFA for its internal login system (though it does require account verification when you register). That said, DSpace supports a variety of authentication plugins / external systems which already support MFA. So, you could use Shibboleth, OpenID connect, ORCID, etc. immediately with DSpace. Docs on Authentication plugins are at https://wiki.lyrasis.org/display/DSDOC7x/Authentication+Plugins

42. Any future plans to provide some form of log file access through the admin UI?
    a. ANSWER: Nothing specific at this time. But it's a nice idea. Just not sure how easy it would be to implement. That said, as mentioned in today's session, the majority of new features are *donated* by institutions who use DSpace or service providers. If you

need/want this feature, please [create a ticket](#) and volunteer to help us brainstorm it out..or hire a [service provider](#) to help build it.

43. Is single-sign on enabled?
    a. ANSWER: DSpace has a variety of Authentication plugins which provide single-sign on functionality including LDAP, Shibboleth, OpenID, etc. See https://wiki.lyrasis.org/display/DSDOC7x/Authentication+Plugins

44. Is multilingual search functionality planned? For example, retrieve a document by any language keyword present in the metadata.
    a. ANSWER: As mentioned in today's session, I believe this should already work. Searching in DSpace uses UTF-8, and metadata fields can store any language (and full text can be in any language). So, if you search DSpace using a different language, you should already find Items which have those same words in their metadata or full text. If you are finding this is NOT working, please submit a bug ticket to describe the issue you are seeing: https://github.com/DSpace/dspace-angular/issues

45. We have option for bulk export. Can we export selected records from items?
    a. ANSWER: I'm not sure I understand this question, but there is a variety of ways to export content out of DSpace, including using [AIPs](#), [Simple Archive Format](#), or even CSV (via [Batch Metadata Editing](#)). It's unclear which option you are referencing, but all the options allow you to select specific *items* you wish to export.

46. Is version 7.5 recommended for a productive environment?
    a. ANSWER: Yes, I always recommend the latest version of 7.x. 7.5 has new features, but also bug fixes & performance improvements. So, if you are upgrading/installing 7.x, I'd recommend using 7.5

47. What is the best practice for migrating multiple Solr cores (shards) from 6.x to 7.5 as 7 does not support multiple Solr cores?
    a. ANSWER: As mentioned in today's session, there was some discussion on this in the dspace-tech mailing list. See this thread: https://groups.google.com/g/dspace-tech/c/KigsKFeD0cA/m/yAkY3-oWAgAJ There is also some basic info on dealing with shards in the [upgrade process](#). In v7, it was no longer possible to embed Solr because Apache Solr itself no longer offered that option. This also meant that DSpace has less control over Solr as it's an external dependency, so DSpace 7 cannot create shards or similar anymore. Using the guides above though, it should be possible to import all your old shards into a single Solr core. If you run into issues, feel free to ask on the lists.

48. Can we get export report of changes to know who, what and when? Can I get the details who has exported.
    a. ANSWER: DSpace doesn't have a detailed audit trail at this time. However, information on who has made changes can often be found in the logs (dspace.log), or the "dc.description.provenance" field (for larger changes like Item creation, etc). Information about who ran a Process can also be found in the Processes list of the Admin UI..however that information may be regularly removed if you cleanup old Processes (to save storage space). If you have a more specific question please ask on the [Support](#) lists.

49. What type of plugins are possible install in 7.5 version to show multimedia files?
    a. ANSWER: The DSpace 7 UI has its own multimedia viewer that works for pictures, videos and audio. See the docs at

https://wiki.lyrasis.org/display/DSDOC7x/User+Interface+Configuration#UserInterfaceConfiguration-MediaViewerSettings   DSpace 7 also supports IIIF for images: https://wiki.lyrasis.org/display/DSDOC7x/IIIF+Configuration

50. I wasn't able to assist the meet, where can I found the recording video? Somewhere on YouTube?
    a. ANSWER: The video will be shared on mailing lists in the near future and linked at the top of this document when it's available. I expect it will be available in the next few days.

Please add your questions ahead of the March 29, 2023 session in the space below

51. Is there any plan in future DSpace versions to add a report generation module in the GUI, so