

_DSpace 7.4 Community Workshops (Nov 15-17, 2022): Questions for Presenters

Please add your questions for each Workshop session to this document. We will be answering your questions during the live Q&A during the workshops. You may ask questions anonymously. This document will be live until November 25 to add questions, and we will do our best to answer any questions that come in after the workshops have run.

Workshop Slides:

- (Nov 15) Using DSpace 7.4: <https://tinyurl.com/dspace7-4-user>
- (Nov 16) Upgrading to DSpace 7.4: <https://tinyurl.com/dspace7-4-upgrade>
- (Nov 17) Developing on DSpace 7.4: <https://tinyurl.com/dspace7-4-develop>
- TinyURL link to this Q&A document: <https://tinyurl.com/dspace7-4-questions>

Session 1 (Nov 15, 2022): Using DSpace 7.4

1. What harvesting tools does DSpace 7.4 include?
 - a. ANSWER: I'm assuming this refers to OAI-PMH Harvesting. DSpace 7 include the same OAI-PMH Harvesting tools as were available in 6.x (and below), including the ability to harvest from an external application. See docs at [https://wiki.lyrasis.org/display/DSDOC7x/OAI#OAI-OAI-PMH/OAI-OREHarvester\(Client\)](https://wiki.lyrasis.org/display/DSDOC7x/OAI#OAI-OAI-PMH/OAI-OREHarvester(Client))
2. In February of this year we were presented with the results of the Dspace Product Vision Working Group <https://bit.ly/3VXf9TX> in which they recommended, among other things, the development of a modular and extensible architecture that included a robust API and modern, a registry of plugins, easy integration with external tools and services and greater community participation. Are these recommendations taken into account in v7.4?
 - a. ANSWER: The DSpace Product Vision Working Group was a subgroup of DSpace Governance (Steering/Leadership). Its role was to brainstorm ideas for *DSpace 8* and beyond. So, while DSpace 7 aligns with those plans, those plans are for the future.
3. How is the integration of DSpace 7 with DSpace-CRIS?
 - a. ANSWER: DSpace-CRIS and DSpace are entirely separate products, and are built/supported by different teams. DSpace is the main open-source product which is led by Tim Donohue as Tech Lead at LYRASILS. DSpace-CRIS is a product that builds on DSpace but is entirely supported by 4Science. Tim Donohue/LYRASILS has no feedback or control over DSpace-CRIS, as it's a 4Science product. That said, DSpace Steering has been working with 4Science on ways to bring the two products "together" into a single product, but no timeline has been set for that work.
4. ¿Qué herramientas incluye DSpace? (What tools does DSpace include?)

- a. ANSWER: In the “Using DSpace 7.4” webinar we talked about what tools are available. See the slides at <https://tinyurl.com/dspace7-4-user> . Also see the DSpace docs at <https://wiki.lyrasis.org/display/DSDOC7x>
5. Buenos días. Esta nueva versión contempla la gestión de datasets (datos de investigación), vinculándolo con los papers de los investigadores? (Does the new version consider management of datasets, which is also able to link to the research papers?)
 - a. ANSWER: At this time there is no Entity for datasets. However, you can store datasets in DSpace (there are many DSpace sites which store data). I suspect there will eventually be a dataset Entity type, but no exact timelines for it.
6. ¿Podemos crear comunidades, subcomunidades y colecciones e varios idiomas de una vez? Trabajamos en un entorno multilingüe y ahora mismo hay que tocar código para poder hacerlo. Teníamos entendido que DSpace 7 solucionaba el tema del multilingüismo. (Can we create communities, sub-communities and collections en multiple languages at once? We work in a multilingual institution and we need code to do that. We understood that DSpace 7 would provide a solution for multilingualism.)
 - a. ANSWER: At this time, DSpace 7 Communities/Collections work similar to DSpace 6. So, there’s not a way to create multilingual collections at the same time. That said, Collections/Communities do support all metadata fields, so it would be possible to allow for a Community/Collection to accept multilingual metadata... it just doesn’t exist by default at this time. This does seem like a feature that others would also desire, so I would welcome code contributions which allow us to better support multilingual communities/collections. You are also welcome to create a ticket to describe your use case / need at <https://github.com/DSpace/dspace-angular/issues>
7. ¿Qué vocabulario controlado se utiliza en el metadato Type? (What controlled vocabulary does Type field use?)
 - a. ANSWER: The “Type” field (dc.type) by default is configured to use a vocabulary defined in “submission-forms.xml”. Here’s it’s default config: <https://github.com/DSpace/DSpace/blob/main/dspace/config/submission-forms.xml#L156-L168> It uses the “common_types” defined here: <https://github.com/DSpace/DSpace/blob/main/dspace/config/submission-forms.xml#L1395> More information on managing submission forms can be found in the docs at <https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface>
8. If a user authenticates with ORCID, do you grant them roles by looking for their ORCID or does the people database store their email (or both)?
 - a. ANSWER: After authenticating through ORCID, a corresponding DSpace EPerson is created (which is linked to that ORCID account). ORCID authentication requires sharing/storing their email. So, after authentication through ORCID, permissions are managed via the DSpace EPerson
9. If a user sets an embargo or lease date on a file, is the metadata available without the file before the embargo date or after the lease date?
 - a. ANSWER: There are two types of Embargo in DSpace 7. By default, you can just embargo files, in which case the embargo/lease is only on downloading the file (and the metadata in the Item is not restricted by the embargo/lease -- meaning the metadata may be

visible even though the file is embargoed). However, there's also a capability to enable Item-level embargoes/leases. When that feature is enabled, it restricts the entire Item (both files and metadata). See documentation here on item-level embargoes: <https://wiki.lyrasis.org/display/DSDOC7x/Embargo#Embargo-EnablingItem-levelEmbargo>

10. Are query logs available in the DSpace statistics?
 - a. ANSWER: This feature does not yet exist in DSpace 7. We have a ticket open for porting this from 6.x to 7.x here: <https://github.com/DSpace/DSpace/issues/2880> As of now, it's not yet scheduled for development. But, we welcome volunteers to contribute to any unscheduled tickets if it's of interest to your institution.
11. primera vez usando DSpace, para el caso de querer cambiar los fondos o alguna imagen de la pagina principiapl, ¿Cual seria el proceso? o mas bien, ¿Donde encontraria los archivos a cambiar? muchas gracias (it's my first time using DSpace, to change fonts or an image from the main page, what is that process? Or, where are the archives that are to be changed found?)
 - a. ANSWER: I'm not sure I understand this question. You can edit items in DSpace though by logging in as an Admin and using the Edit menu.
12. Buenos días. Se pueden hacer exportaciones desde ALEPH catalogos publicos? (Can you make exports from ALEPH and public catalogs?)
 - a. ANSWER: At this time, no. However, as I mentioned in the talk, we welcome contributions of this sort. We started with just a few import sources, but are now up to >10. More are likely to be added, but no plans yet for public catalogs (though contributions are welcome)
13. Como es el seguimiento estadístico de vista y descarga de los ítems? es público? (How is the tracking for views and downloads? Is it public?)
 - a. ANSWER: By default, usage statistics (views/downloads) is public. But, there's a configuration which can make it private (admin only). Documentation on our usage statistics is at <https://wiki.lyrasis.org/display/DSDOC7x/SOLR+Statistics> (DSpace also does support Google Analytics if you'd rather use that)
14. La lista para importar items e
15. stá predeterminada o podemos agregar fuentes de importación? (Is the list to import items predetermined or can we add import sources?)
 - a. ANSWER: Import sources can be added, but they require Java code on the backend. As each Import source has a unique API, code needs to be written to support that API. Detailed technical docs on our import sources (which we call "external sources") can be found at <https://wiki.lyrasis.org/display/DSDOC7x/Live+Import+from+external+sources>
16. Can importing (e.g. from PubMed) be done in bulk?
 - a. ANSWER: At this time, no. Currently importing is one by one via MyDSpace / Submission UI. Obviously though, it is possible to to bulk imports if the metadata is first gathered in a CSV or similar (by using the Batch Metadata Editing import capabilities).
17. Can embargoes &/or leases be applied &/or changed &/or deleted in bulk?
 - a. ANSWER: It is possible to bulk *apply* embargoes via metadata fields (this can be useful to use in conjunction with SWORD or similar). See docs at

<https://wiki.lyrasis.org/display/DSDOC7x/Embargo> However, at this time there is no capability to edit/delete in bulk. That seems like it could make a useful feature (perhaps in Administrative Search alongside withdraw/reinstate). We would accept contributions of this sort, or you are welcome to create a ticket to describe your use cases at <https://github.com/DSpace/dspace-angular/issues> (and we can look for volunteers)

18. Is there SWORD deposit in DSpace 7?

- a. ANSWER: Yes, both SWORDv1 and SWORDv2 are both still supported in DSpace 7. See docs at <https://wiki.lyrasis.org/display/DSDOC7x/SWORDv1+Server> and <https://wiki.lyrasis.org/display/DSDOC7x/SWORDv2+Server>

19. In previous versions of DSpace, admins could bulk edit metadata for collections by exporting, editing, & re-importing a spreadsheet (or CSV file, IIRC) via the UI (without resorting to scripting or making use of the API). Can this be done in DSpace 7?

Answered: yes! (awesome)

20. ¿Podría mostrar cómo genera estadísticas de uso y consulta? y ¿Qué diferencias considera más significativas en relación a versiones anteriores? (Can you show how to generate use and download statistics? What are the main differences between this version and previous versions?)

- a. ANSWER: Download/usage statistics are generated automatically as you use the DSpace site (and view pages or download files). However they will not be generated from “localhost”, so they require accesses from a different location/computer. Usage statistics in DSpace 7 are similar to DSpace 6 at this time, however DSpace 7 doesn't yet support statistics for searches or items in workflow (DSpace 6 had these statistics). Tickets exist to add those features to DSpace 7, but they have not yet been assigned. If anyone is interested, we also welcome volunteers to help here. See <https://github.com/DSpace/DSpace/issues/2880> and <https://github.com/DSpace/DSpace/issues/2851>

21. Cuando se accede a un ítem non-discoverable a través de un enlace ¿el acceso es público o se pueden implementar restricciones a partir del rol asignado al usuario? Es decir, ¿se puede restringir el acceso a estos ítems a un grupo de usuarios?

- a. ANSWER: Non-discoverable items can either be publicly available or access restricted. “Non-discoverable” just means the item cannot be found in search/browse. However, that Item may (or may not) have other access restrictions applied to it.

22. ¿ay mejora con las estadísticas de uso, almetricas o reportería en esta nueva versión? (Have altmetrics, usage statistics and reports been improved in the new version?)

- a. ANSWER: At this point, no. The usage statistics/reports in DSpace 7 are very similar to those in DSpace 6. However, recently some tickets have been created to suggest improvements to these statistical reports (these tickets are not yet assigned or scheduled, but volunteers are welcome to help out). For example: <https://github.com/DSpace/DSpace/issues/8572> and

- <https://github.com/DSpace/DSpace/issues/8573> . You are welcome to create other tickets to describe additional needs / use cases.
23. Does the drag & drop feature deal with large files? Say 1-10GB. Also can one add a folder?
- ANSWER: There is no known file size limitation. However, we have not done extensive testing with very large files. If you discover issues, I recommend reporting them as a bug ticket: <https://github.com/DSpace/DSpace/issues> Upload size also can depend on the memory available to the site as well as the speed of the upload (i.e. connection speed).
 - At this time it is not possible to upload a folder of files.
24. ¿La importación es la única manera de incorporar metadatos a una colección? (Is import the only way to add metadata to a collection?)
- ANSWER: Collection metadata can be edited from the Collection Edit form (available to Admins, Community Admins or Collection Admins). I'm not sure I understand the context of this question though? If you are looking to add custom metadata fields to a Collection, this is not yet easily possible from the DSpace 7 UI. If you wanted you can submit a feature request describing your use case in more detail: <https://github.com/DSpace/DSpace/issues>
25. Can you import a relation between an existing entity and the item to be imported? If yes, in what form must be a relation specified in the import?
- ANSWER: I'm assuming you are talking about a "bulk import" like using the "Simple Archive Format" (zip). If so, it is possible to specify relationships to Entities using the Simple Archive Format as documented here: <https://wiki.lyrasis.org/display/DSDOC7x/Importing+and+Exporting+Items+via+Simple+Archive+Format#ImportingandExportingItemsviaSimpleArchiveFormat-relationshipsfile> It is also possible to create relationships between a new Entity and an existing one in the Item Submission form (for specific Entities).
26. Can you import &/or export a structure of (sub)communities & (sub)collections in one go, or are you limited to the items in a given collection?
- ANSWER: There is a basic tool to export/import a Community & Collection hierarchy here: <https://wiki.lyrasis.org/display/DSDOC7x/Exporting+and+Importing+Community+and+Collection+Hierarchy> This can be used to migrate just the Community/Collection hierarchy itself (without any Items). If you wanted to export/import an entire Community -> Collection -> Item content hierarchy, the best tool for this is the AIP Backup & Restore: <https://wiki.lyrasis.org/display/DSDOC7x/AIP+Backup+and+Restore> That tool will export AIPs for the Community, Collection and all Items. Those AIPs are linked together so they can be used to move all that content from one DSpace to another (or similar).
27. ¿Cómo funciona la importación desde otras fuentes como Pudmed, ScienceDirect, WOS, etc. Respecto a los derechos de acceso del documento? Entiendo solo si se tiene el acceso al texto completo y por suscripción es donde el administrador de DSpace es

quien debe limitarlo según la licencia del item en cuestión? No me ha quedado claro. Entendí que a partir de APIs

- a. ANSWER: Some of the external services require an “API Key” to be configured in your local.cfg file. You can see examples in the “external-providers.cfg” at <https://github.com/DSpace/DSpace/blob/main/dspace/config/modules/external-providers.cfg> We also discussed this briefly in the “Upgrading to DSpace 7.4” talk (see slides above). That API Key provides your access rights to PubMed, ScienceDirect, etc. So, you have to often sign up with the service to get an API key.

28. JSON for export import ?

- a. ANSWER: The DSpace Backend (REST API) communicates entirely in JSON. So, yes, you could export/import by building tools against our REST API. One example can be found in our documentation on how to perform a submission via the REST API:
<https://github.com/DSpace/RestContract/blob/main/submission.md> All features in DSpace are available in the REST API and its docs can be found at <https://github.com/DSpace/RestContract/blob/main/README.md>

29. Is there a way to add rights info to the initial ingest workflow (such as article-specific Creative Commons license)? This would be super helpful for someone like me who uploads OA scholarship to the IR. I should specify that it would be great to have it on the same page as keywords, abstract, etc.

- a. ANSWER: I’m not sure if I fully understand the use case you are asking about. I can say though that, currently, DSpace only supports CC Licenses for the entire Item. However, we do have an option ticket recommending we consider allowing CC Licenses for individual files/bitstreams:
<https://github.com/DSpace/DSpace/issues/8462> That doesn’t yet have a volunteer or timeline, but maybe it’s what you are looking for?

30. Como se puede exportar datos desde dspace 3 a 7.4? (How do you export data from DSpace 3 to 7.4?)

- a. ANSWER: This was covered somewhat in the “Upgrading to DSpace 7.4” talk (see slides linked above). We have migration documentation available at <https://wiki.lyrasis.org/display/DSDOC7x/Migrating+DSpace+to+a+new+server> This migration process can be used to allow you to migrate from an older version of DSpace into DSpace 7.x.

31. Tiene algun limite el tamaño de la colección de la colección de items en una comunidad? Si fuese así, como se ampliar el tamaño predeterminado? (Is there a size limit for a collection in a community?)

- a. ANSWER: There is no explicit size limitation for either a collection or a community. The DSpace UI makes use of pagination (pages of objects) in order to minimize the amount of content it is grabbing from the backend at one time. So, even if your Collection has thousands of items (or more), pagination should allow it to still work well. If you notice issues, feel free to report them via one of our Support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>

32. ¿La única manera de incorporar metadatos a una colección es mediante un proceso de importación? ¿Qué campos o características deben tener los archivos CSV para que sean validados los metadatos? (Is the only way to ingest metadata via an import? What fields or characteristics should the CSV have so that the import is valid?)
- ANSWER: You can either perform a bulk import or add Items one by one via the submission process. There are a number of ways/formats for ingesting content into DSpace, see our docs at <https://wiki.lyrasis.org/display/DSDOC7x/Ingesting+Content+and+Metadata> As for the CSV format, it's described in great detail in the docs at <https://wiki.lyrasis.org/display/DSDOC7x/Batch+Metadata+Editing>
33. Desplegar multiple instancias de dspace en un servidor con backend y frontend en dos servidores distintos.. Como se configuran.? (How to display multiple instances of DSpace on one server with a backend and front end in two different servers? How do you configure that? In proxmox for example. If I want support 5 instances dspace, I need 10 virtual machine or LXC debian 11. Where configure the ip)
- ANSWER: I'm sorry, but I don't understand this question. It is possible to run the frontend and backend on the same server or multiple servers. You also could run many DSpaces on one server (provided each DSpace is using it's own ports, database, etc). If you have specific questions related to installation/setup, I'd recommend using one of our Support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>
34. Does SAF Import overwrite existing file?
- ANSWER: It depends on the parameters you pass to the import script. By default, SAF import does NOT overwrite existing files and simply creates new ones. However, same as in DSpace 6, it's possible to replace items using a "mapfile" as documented at <https://wiki.lyrasis.org/display/DSDOC7x/Importing+and+Exporting+Items+via+Simple+Archive+Format#ImportingandExportingItemsviaSimpleArchiveFormat-ReplacingItemsinaCollection> These mapfiles can also be used in the DSpace 7 UI "Processes" menu if you wanted to perform a replacement using SAF.
35. Can custom entities be created from web interface?
- ANSWER: At this time, custom Entity types/models cannot be created from the web interface (however, obviously you can submit/create new entities of an existin Type). Entities configuration is described at <https://wiki.lyrasis.org/display/DSDOC7x/Configurable+Entities>
36. What is the best approach to import/export: database or using SAF ZIP import export process??In my localhost environment
- ANSWER: It depends on your use case. SAF Zip import/export only works for Items, so it's a good way to batch export/import Items. If you need to export/import Communities & Collections as well, then you may want to use either AIP Backup & Restore (<https://wiki.lyrasis.org/display/DSDOC7x/AIP+Backup+and+Restore>), or a database export

37. Dspace7.4 es lo mismo que Dspace CRIS?
- ANSWER: No, DSpace-CRIS is a separate product which is created/supported by 4Science. It is built on top of DSpace, but it is not the same thing. I'm only the Tech Lead for DSpace, and I have no feedback/control into DSpace-CRIS (where 4Science acts as the Tech Lead). DSpace Steering is working with 4Science to begin to bring DSpace & DSpace-CRIS closer together...so they may eventually "merge" into one product. But, as of right now, they are separate.
38. ¿Cómo editamos e incorporamos metadatos a una hoja de carga de una colección específica? (How do we edit and incorporate metadata in a spreadsheet for a collection?)
- ANSWER: I'm not sure I understand the context of this question. If you are asking about importing metadata-only items into a collection from a spreadsheet, I did show a brief example of this in the "Using DSpace 7.4" presentation (slides are linked above). That example used the "Batch Metadata Editing" tool, which has a specific spreadsheet format...it's describe in detail in the docs at <https://wiki.lyrasis.org/display/DSDOC7x/Batch+Metadata+Editing> If this is not what you are asking about, then it might be better to send a more detailed question to one of our Support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>
39. How to use webui.itemdisplay in dspace 7.4 (before en 6.3 it was in dspace.cfg)
- ANSWER: the "webui.itemdisplay" settings used to allow you to customize which fields are displayed on an Item page. Unfortunately, these are not yet supported in DSpace 7. However, it is possible to modify the item display page directly by editing it's HTML (in your theme or the main code). You'd want to modify the "untyped-item.component.html" for a normal Item (non-Entity) at <https://github.com/DSpace/dspace-angular/blob/main/src/app/item-page/simple/item-types/untyped-item/untyped-item.component.html> If you look closely at the HTML structure, you'll see each of the metadata fields listed. You can add more fields or remove them by changing that HTML.
40. Did you talk about statistics?
- ANSWER: Yes, this was talked about during the Q&A portion of the "Using DSpace 7.4". Video will be available either later this week or early next week.
41. How we can upgrade from 7.1 to 7.4?
- ANSWER: You can follow the Upgrade documentation to upgrade from one DSpace 7.x to another: <https://wiki.lyrasis.org/display/DSDOC7x/Upgrading+DSpace> Obviously, skip any steps that say "If upgrading from 6.x or below" (or similar) as those steps don't apply if you are upgrading from one 7.x to another version of 7.x. If you run into specific questions or issues, use the Troubleshooting Guide [https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error#Troubleshootan+error-DSpace7.x\(orabove\)](https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error#Troubleshootan+error-DSpace7.x(orabove)) or our Support channels (<https://wiki.lyrasis.org/display/DSPACE/Support>)
42. How we can backup database?

- a. ANSWER: We recommend using PostgreSQL tools (pg_dump) to backup your database. We have some general notes on this in the documentation for the Storage Layer of DSpace
<https://wiki.lyrasis.org/display/DSDOC7x/Storage+Layer#StorageLayer-MaintenanceandBackup>
43. Como puedo exportar un registro que esta linea usando dspace a mi dspace en produccion?
- a. ANSWER: Unfortunately, I don't understand the context of this question. DSpace allows you to export or import in a variety of formats. We have ways to export and import listed in the documentation at
<https://wiki.lyrasis.org/display/DSDOC7x/Exporting+Content+and+Metadata> and
<https://wiki.lyrasis.org/display/DSDOC7x/Ingesting+Content+and+Metadata>
44. ¿DS7 muestra una lista por tipo tipologia documental? (How to display a list by typology of documents?)
- a. ANSWER: Unfortunately, I don't understand the context of this question. There's no "typology" field in DSpace at this time. However, the DSpace Search interface can be configured to allow for filtering/searching of any field you want. However it requires backend configuration to change the configured fields. See our detailed documentation on "Discovery" (which is our Search interface) at
<https://wiki.lyrasis.org/display/DSDOC7x/Discovery>
45. Entities are too new but some functionality like search and import external datasources like (OpenAire or ORCID, Projects or Persons). This make necessary using entities in the future or in the new deposited items. ¿Not?
- a. ANSWER: At this time, Entities are not required. You can use those external data sources to import regular Items. That said, as I briefly mentioned in the "Upgrading to DSpace 7.4" presentation (see slides linked above), I do feel that Entities are the "future of DSpace". I suspect that one day they will be *required*, but it will not occur until at least DSpace 8 (or later).
46. Would my DSpace site and its contents always be visible to the public? Can it be set up for private collections, only visible to staff across my organization?
- a. ANSWER: No, site contents are not always publicly visible. You can configure access restrictions for Communities, Collections or individual Items. When you login as an Admin and edit one of those objects, it is possible to edit their "Authorizations". By default the "READ" authorization will usually be "Anonymous" (which means it's publicly visible). If you change it to a different group (e.g. "Administrator") then that Community/Collection/Item will no longer be publicly visible & only members of that selected group can access it.
47. puedo migrar eprints a dspace? es compatible (Can I migrate eprints to DSpace?)
- a. ANSWER: there is not built-in tool to migrate from EPrints to DSpace but this is a quite common path and DSpace Service Providers can help you on that. You need to export the Eprints data and package them in a format that can be used in DSpace like a SIP, CSV files for metadata and scripting to attach the files via REST API, etc.

48. necesito una cuenta orcid para vincularlo con dspace7.4 para poder importar el perfil (Do I need an ORCID account to link to DSpace 7 to import the profile?)
- ANSWER: Not sure about the question, you can import in DSpace Person profile also using the Public ORCID API KEY and you are not required to be the owner of the ORCID Profile that you are importing. If you want to link a DSpace Person profile with an ORCID Profile to get an authenticated ORCID ID and push information from DSpace to ORCID (publication, project, biography details) you need ORCID Member API KEY and only the Owner of the ORCID Profile can enable the synchronization for they profile via the OAuth2 dance (the connect button in dspace that will lead the user to login in they ORCID account)
49. I haven't gotten my local environment to work as fast as I'm seeing yours right now. Could you tell us how much memory for JAVA, node, tomcat, DB you use.
- ANSWER: (From Tim) For the backend, I am using the Docker development scripts provided in the backend codebase. See <https://github.com/DSpace/DSpace/blob/main/dspace/src/main/docker-compose/README.md> So, all backend dependencies are installed/run via those Docker scripts...this includes Tomcat, DB, Java, etc. To run the frontend, I have Node.js/Yarn installed locally, pull down the code and run `yarn build:prod` followed by `yarn serve:ssr`.
 - My machine is Windows laptop with 32GB memory and an Intel i7-10850H CPU @ 2.7.0GHz (12 processors). But, Docker only is configured to just use 6GB memory + 1GB swap. Node.js has no special configurations.
50. ¿Cómo relaciono una entidad persona con items que ya tengo en Dspace? (How do I relate a person entity with items that I have in DSpace?)
- ANSWER: Entities can only have relationships to other Entities. So, it's currently not possible to relate an Entity to a regular Item. Instead, you'd have to change that Item into an Entity. Luckily, an Entity is really just an Item that has the "dspace.entity.type" metadata field specified (though it may also have other entity-specific metadata fields). So, it might be possible to change your Items into Publication Entities by setting "dspace.entity.type=Publication". At that point, you should be able to relate them to a Person entity, as there exists a Person-to-Publication relationship.
51. ¿Tiene métodos de control para NO cargar registros repetidos?
- ANSWER: At this time there is no "duplicate detector" in DSpace 7. However, work on adding one to DSpace 7 has begun in <https://github.com/DSpace/DSpace/pull/8415> and <https://github.com/DSpace/dspace-angular/pull/1732> . So, while this doesn't exist yet, it may be included in DSpace 7.5 (or 7.6).
52. cual es la ultima versión estable de dspace? (What is the latest stable version of DSpace?)
- ANSWER: The latest stable version is 7.4. The release schedule for 7.x releases can be found at <https://wiki.lyrasis.org/display/DSPACE/DSpace+Release+7.0+Status>

53. ¿Se puede importar desde catálogos públicos, en este caso ALEPH? (Duplicate of #12 above)
54. Will there be an option for permanently/forever embargo an item, as a way to restrict the item permanently?
- ANSWER: In DSpace 7 there is already an option to restrict a file or an Item to “Administrator” which is the same as a permanent embargo. The file/item will only be accessible to Administrative users and will not be accessible to anyone else. It is also possible to add your own custom embargo / access restriction settings to the Submission UI, see [https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface#SubmissionUserInterface-Modifyingaccessconditions\(embargo,etc.\)presentedforBitstreams](https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface#SubmissionUserInterface-Modifyingaccessconditions(embargo,etc.)presentedforBitstreams)
55. What happens if you send an item back through the administrator workflow to someone who is no longer with the university? Can you retrieve it from someone's personal dspace?
- ANSWER: At this point in time, I don't believe there's a way to retrieve an item from another person's personal MyDSpace. This might be a use case we hadn't thought about in great detail yet, and perhaps there's a need to have a way to simply “restart” the workflow (i.e. send it back to the workflow queue where someone else can claim it, instead of sending it back to the original submitter). I created a ticket as I think this is a good idea: <https://github.com/DSpace/dspace-angular/issues/1970>
56. What is the integration of other PIDs other than ORCID? Right now PIDs are static. Some of these entities could use dynamic integration (e.g. Project) - what are the plans?
- ANSWER: At this point in time there are no plans for tighter PID integration in DSpace 7. This may be considered in DSpace 8 (and beyond), but would need to be prioritized by our DSpace Steering Group. We'd also need to ensure other PIDs have a public API which allows for this dynamic integration – ORCID has a well documented API which makes this dynamic integration easier. If there are other PIDs you are aware of with a similar public API (which allows for DSpace to “sync” with it), I'd recommend adding it to a feature request to our GitHub tickets at <https://github.com/DSpace/dspace/issues>
57. For this new analytical structure which is amazing, in case of papers already indexed individually in a DSPACE 6.4 version only using the ispartofseries to tie the papers together (volumen issue) will be possible to use this new structure? I assume we will need to manually reindex in 7.x correct?
- ANSWER: This appears to be related to Entities. Unfortunately, there's not currently a direct migration from older Items (using ispartofseries or similar) to new Entities. I do expect that migration tools will be built of this sort, as we have a ticket for this work (<https://github.com/DSpace/DSpace/issues/8442>), but we don't have this work scheduled yet as it's more complex than it may seem & requires discussion.

58. If new DSPACE will better control Entities, what is the benefit of creating Sub-communities (based on entities)?
- a. ANSWER: I mentioned this in the "Using DSpace 7.4" talk (in the Q&A), but Entities are all Items. As noted, Items *must* belong to a Collection, which means Entities all must belong to a Collection. Additionally, Collections can specify an "entity type" which allows them to be limited to only accept that type of Entity. The reason you may want to do this is because different Entity Types *often* require different submission forms (as you need to capture different metadata). Collections are what decide which submission form you must use to submit to that collection... so a Collection which only accepts "Person" Entities will have a submission form specific to "Person" entities.
 - i. It is possible this behavior could change in a future release of DSpace as Entities become more widely adopted & used. But it will not change in DSpace 7.x...the earliest we'd revisit this would be in DSpace 8.
59. Does DSPACE will come with the overwrite function for files? or will it need to be customized?
- a. ANSWER: Simple Archive Format batch imports *can* overwrite Items in bulk, if you use the "mapfile" option. This option can be used from the "Processes" menu or the commandline. See docs at <https://wiki.lyrasis.org/display/DSDOC7x/Importing+and+Exporting+Items+via+Simple+Archive+Format#ImportingandExportingItemsviaSimpleArchiveFormat-ReplacingItemsinaCollection> It is also possible to obviously edit & replace files individually from the user interface if needed.
60. Can a hyperlinked URL be embedded in the abstract of the item?
- a. ANSWER: Yes, this is already possible as of 7.4 using the Markdown "enabled" setting in the UI. See docs at <https://wiki.lyrasis.org/display/DSDOC7x/User+Interface+Configuration#UserInterfaceConfiguration-SettingsforrenderingMarkdown,HTMLandMathJaxinmetadata>
61. How do we generate statistics of usage ?
- a. ANSWER: usage statistics are generated automatically whenever someone visits your site. Keep in mind though that "localhost" accesses do NOT generate statistics..the accesses must be external. You can find more information about what statistics are logged and how they can be configured in the docs at <https://wiki.lyrasis.org/display/DSDOC7x/SOLR+Statistics>
62. Using DS7, is it possible to edit forms using the front-end? (What we usually do in input-forms.xml until DS6)
- a. ANSWER: DS7 has renamed (and enhanced) the input-forms.xml in submission-forms.xml so you still need to modify an xml file to modify your form used by the submission process. It is currently not possible to do that via a REST API and so not from the UI. The new submission-forms.xml format is described in the docs at <https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface> There

- is a migration script provided (./dspace submission-forms-migrate), see the Upgrading docs.
63. Drag and Drop deal with large files? Say 1-10GB.
- ANSWER: in theory is possible (up to 5GB) but it is a very fragile process as it is based on standard http5 chunk upload request without any special resume technique or protocol. To go over 5GB you need a compatible storage (like AWS S3) and a PR currently under review for DSpace 7.5
<https://github.com/DSpace/DSpace/pull/8500>
64. Do permissions still flow down? Meaning - as a admin for the entire dspace site, can I edit items within a collection that has a separate assigned admin?
- ANSWER: yes, repository administrators can always do everything. Community and collection administrators by default inherit administrative permissions over the lower-level objects but this can be configured
<https://github.com/DSpace/DSpace/blob/main/dspace/config/dspace.cfg#L346-L393>
65. Any international phrases set for the UI?
- ANSWER: DSpace 7 supports internationalization and is already translated into over 15 other languages. See the translations at
<https://github.com/DSpace/dspace-angular/tree/main/src/assets/i18n>
Documentation on creating a new translation can be found at
<https://wiki.lyrasis.org/pages/viewpage.action?pageId=117735441>
66. ~~Will there be an option for permantly/forever embargo an item, as a way to restricted the item permantly?~~ (duplicate of 54 above)
67. ~~What happens if you send an item back through the administrator workflow to someone who is no longer with the university? - Can you retrieve it from someone's personal dspace?~~ (duplicate of 55 above)
68. When will docker be fully supported?
- ANSWER: We **do** support Docker (as I mentioned in both the “Using DSpace 7.4” and “Upgrading to DSpace 7.4” presentations). That is a valid way to install DSpace..but we recommend updating our development Docker scripts, as they open up ports which are *only useful in development and shouldn't be open in production*. As they were designed for development, you also may be able to create smaller images for production scenarios.
 - At this time there are no immediate plans to create separate “production” scripts for Docker. But, if we are able to find volunteers to help us do this, then we'd make sure they were added to the codebase.
69. ~~Does SAF import overwrite existing files?~~ (Duplicate, see 33 above)
70. ~~Is there a way to create custom entities from Web interface?~~ (Duplicate, see 34 above)
71. Could you transfer metadata between similar items with a approbation workflow?
- ANSWER: At this time, DSpace doesn't have a way to transfer metadata from one item to another. However, there is some (early) work on adding a duplicate checker (which is somewhat related, as it helps locate similar items). See <https://github.com/DSpace/dspace-angular/pull/1732> and

<https://github.com/DSpace/DSpace/pull/8415> . It's likely this would be added in either 7.5 or 7.6

72. It seems that DSPACE 7.0 provides a more advanced cybersecurity features as you can assess if your environment is in risk or not as Relic Report. Can you expand this?
- ANSWER: DSpace 7 itself doesn't have "advanced cybersecurity features", but we have many procedures in place to ensure DSpace is secure & stable. As I mentioned in the "Upgrading to DSpace 7.4" talk (see slides linked above), every code change in DSpace is now scanned for possible security vulnerabilities. As of today we are using LGTM.com for that scanning, but are in the process of migrating to Github's built-in security scanning. We also receive notifications from GitHub whenever a dependency has a security vulnerability, and we patch DSpace immediately if necessary. One example of this was when the log4j vulnerability came out, we immediately patched it in a 7.1.1 release (<https://github.com/DSpace/DSpace/releases/tag/dspace-7.1.1>) and sent announcements to mailing lists (<https://wiki.lyrasis.org/display/DSPACE/Mailing+Lists>). We also have a security policy linked into all our GitHub repos (<https://github.com/DSpace/DSpace/security/policy>).
73. Are there recommendations or instructions for setting up DSpace for High Availability?
- ANSWER: We do not yet have documentation/instructions for how to achieve high availability with DSpace. We have some performance tuning instructions at <https://wiki.lyrasis.org/display/DSDOC7x/Performance+Tuning+DSpace> I would *welcome* help in creating similar "high availability" hints/tips. Our Documentation is a collaborative effort, and it comes from users reporting back their own hints/tips
 - That said, the DSpace backend is a Spring Boot webapp (using Postgres and Solr). The DSpace frontend is an Angular / Node.js application. You could look up resources for how to achieve high availability based on the technology platforms DSpace uses.
74. ~~cual es la ultima versión estable de dspace?~~ (Duplicate of 52, see above)
75. How to add more options in addition to pubmed, crossref, etc.?
- See answer to 15 above.
76. Can we convert authors to person entities? Require that authors are entities?
- ANSWER: At this time, there are no bulk migrations from Item to Entities (see <https://github.com/DSpace/DSpace/issues/8442>). There is also no way to bulk convert every author in your system into an Entity. It *is* possible to import Person Entities (from ORCID for example) as shown in the "Using DSpace 7.4" presentation, but currently that must be done one-by-one. I do expect some bulk entity creation tools will eventually exist, but the only plans we currently have are for the migration tools listed in the ticket above. There is also no way to currently require that all Authors are Entities.
77. ~~puedo migrar eprints a dspace? es compatible~~ (Duplicate, see 46 above)

78. when you imported the ORCID profile in as a person, was that a live link to the ORCID profile? or was that a static import?
- ANSWER: As mentioned in the Q&A, there are two types of ORCID import. When importing from ORCID on the MyDSpace page, you are performing a one-time (static) import from ORCID to create a Person Entity. However, if you *login* via ORCID, this can be used to create a corresponding Person Entity (called your Researcher Profile) which is more of a “live link”, allowing you to synchronize data from DSpace to ORCID. See docs at <https://wiki.lyrasis.org/display/DSDOC7x/ORCID+Integration>
79. ~~how can we add more resources other than Pubmed, CrossRef, etc. for import~~ (Duplicate, see 74 above)
80. Is IIIF available, for example, for viewing large images?
- ANSWER: Yes, IIIF integration is available in DSpace 7. See docs at <https://wiki.lyrasis.org/display/DSDOC7x/IIIF+Configuration> This is a new feature to v7, and it was not available in v6 or below.
81. Is translation of collection’s names and descriptions available or in your schedule to develop?
- ANSWER: At this time, I’m not finding a ticket related to this in GitHub. If you wanted to create a ticket for this, describing the use cases and features you’d like to see, that’d help us. At that point, we could search out a volunteer or see if we can schedule it with some of our main developers. Please feel free to create a feature ticket at <https://github.com/DSpace/DSpace/issues>
82. Are you planning to develop an opportunity to translate for dropdown lists in item’s forms?
- ANSWER: If I understand correctly, you are talking about the dropdowns in the Item submission form? In DSpace 7, It is possible to internalize/translate submission forms & those dropdown lists. However, it currently works the same as it did in DSpace 6 (which is not ideal). It’s documented here: <https://wiki.lyrasis.org/display/DSDOC7x/Multilingual+Support#MultilingualSupport-Localizationofsubmission-forms.xml> (You’ll see there’s a note there which includes a bug ticket about undesirable behavior – you have to duplicate the entire submission configs in order to internationalize/translate them. I’m hoping we’ll find a fix for this bug in the future, but it’s currently waiting on scheduling or a volunteer.)
83. Understanding that there are two ways to use ORCID in DSpace 7: 1) a more static import of ORCID profile info into a Person entity and 2) a more dynamic syncing of a researcher’s ORCID profile with their DSpace user account when logging in via ORCID – is option 2 a user-specific view? For context, we are trying to do a name disambiguation project and having a dynamic connection between DSpace and ORCID (I.e. viewing ORCID but filtered through DSpace) as an administrator would be helpful if available.
- ANSWER: Yes, the dynamic syncing only works if you login via ORCID. So, it’s only available to individual users. There’s not currently a way to dynamically synchronize Person Entities that are *not* associated with an ORCID login account. One of the main reasons this isn’t supported is that ORCID requires a

- login account to access all user data, for privacy reasons. The “static import” does NOT login to ORCID, so it only has access to public information in ORCID.
84. Is it possible to take away a workflowitem, that already has an owner/editor and edit it yourself? In case the current editor is on vacation or absent for a long period of time.
- ANSWER: See answer to 55 above. This is not yet possible, but I think it’s a use case we somehow forgot about. I’ve created a ticket for it at <https://github.com/DSpace/dspace-angular/issues/1970>
85. How setName/setSpec are configured in DSpace 7.x ? (<https://www.openarchives.org/OAI/2.0/openarchivesprotocol.htm#Set>)
- ANSWER: OAI-PMH works the same in DSpace 7 as it did in DSpace 6. Sets in OAI-PMH are automatically generated matching Communities and Collections. More info on OAI can be found at <https://wiki.lyrasis.org/display/DSDOC7x/OAI>
86. Good Morning, the version history can be disabled?
- ANSWER: Yes, Item version history is optional. It is enabled by default, but it can be disabled via configuration.
87. Does video play automatically or is there a setting that has to make that happen? In DSpace 7.3, we’ve had to download to play video.
- ANSWER: There is a new embedded video player available in the 7.x UI. It also exists in 7.3. See the "mediaViewer" settings in the UI config file.
88. Login: LDAP?
- ANSWER: Yes LDAP authentication still exists in DSpace 7. It works the same as in DSpace 6 and below. See docs at <https://wiki.lyrasis.org/display/DSDOC7x/Authentication+Plugins#AuthenticationPlugins-LDAPAuthentication>
89. Current DSpace 6 Person (users) become entities?
- ANSWER: Entities are Item objects in DSpace. So, they are not the same as your user account / login. That said, your user account / login can be linked up to an Entity (which is like your Researcher Profile). One example is when you enable ORCID you can sync your ORCID profile with a local Person Entity in DSpace. More on ORCID at <https://wiki.lyrasis.org/display/DSDOC7x/ORCID+Integration> More on Researcher Profiles at <https://wiki.lyrasis.org/display/DSDOC7x/Researcher+Profiles>
90. Please explain how the 'out of the box' Entities can be modified to reflect your institution. Are these informed by a CRIS or other integration or customized manually?
- ANSWER: Currently, Entities are a brand new advanced feature, so they are customized manually. However, you can import metadata from various external systems (e.g. ORCID for Person Entity, etc)
91. Saludos desde Nicaragua, me gustaria saber requisitos de instalación?, y si tienen un paso a paso para la instalación de DSpace?
- ANSWER: Installation documentation can be found in our docs at <https://wiki.lyrasis.org/display/DSDOC7x/Installing+DSpace>
92. Is ORCID available by default in Dspace 7? If not, how is the ORCID integration technically done? Is ORCID integration paid?

- a. ANSWER: No, it's disabled by default as it requires special configuration. It also does require ORCID Membership if you want every ORCID feature. ORCID membership is paid and details are at <https://info.orcid.org/membership/>. However, some DSpace + ORCID features can be used in DSpace without ORCID membership, see the ORCID documentation at <https://wiki.lyrasis.org/display/DSDOC7x/ORCID+Integration>

Session 2 (Nov 16, 2022): Upgrading to DSpace 7.4

1. How do you set a setName - setSpec in DSpace 7.4?
 - a. See #85 in above list (for Nov 15, 2022). This is a duplicate of that question.
2. Can XOAI contexts be managed?
 - a. ANSWER: Yes, DSpace 7 uses the same XOAI configuration as DSpace 6 (and earlier). This means new contexts can be added in the same way as in DSpace 6 via the "xoai.xml" config file. <https://github.com/DSpace/DSpace/blob/main/dspace/config/crosswalks/oai/xoai.xml> See the "openaire" related contexts as examples and the docs at <https://wiki.lyrasis.org/display/DSDOC7x/OAI+2.0+Server>
3. How can I make global changes to the information contained in the metadata?
 - a. ANSWER: If I understand this question correctly, I think you'd be looking for our Batch Metadata Editing tool. It allows you to export metadata to a CSV, apply changes to that CSV, and the reimport the CSV to make those metadata updates *in bulk*. See the docs at <https://wiki.lyrasis.org/display/DSDOC7x/Batch+Metadata+Editing> I also gave a brief demo of this in the "Using DSpace 7.4" presentation on Tuesday (video will be available soon).
4. Why does Dspace not have a Linux installation package like many other programs? You need to manually install and configure 11 additional programs to carry out the installation, can't you simplify the process a bit? (bearing in mind that they do not recommend installing using Docker for production servers)
 - a. ANSWER: Currently we don't have experts in making Linux installation packages on staff, and I'm not certain this would be easily possible for DSpace while maintaining the ability to configure and fully customize DSpace (especially customizing branding, etc. We also strive to not make DSpace specific to a particular Operating System (as there are people who install it on Windows & Mac as well). All that said, if you have ideas or brainstorm on how we could easily make a Linux installation package, I'd recommend sending them our way (create a ticket at <https://github.com/DSpace/DSpace/issues>). If you or anyone else know of a way to make this possible, I'd love to learn it & see if we can add it to a future version of DSpace.
 - i. I will also note that we *do* support Docker (as I mentioned in both the "Using DSpace 7.4" and "Upgrading to DSpace 7.4" presentations. That is

a valid way to install DSpace..but we recommend updating our development Docker scripts, as they open up ports which are *only useful in development and shouldn't be open in production*. As they were designed for development, you also may be able to create smaller images for production scenarios.

5. Is there any functionality to convert to entities without having to attack the database directly? or is there any utility to migrate existing repositories to dspace7 with entities? now migrate to one with metadata as the other
 - a. ANSWER: As mentioned in the “Upgrading to DSpace 7.4” presentation, there is currently no bulk migration from older Items to Entities. We do however have a ticket for this work, so I expect it will eventually exist: <https://github.com/DSpace/DSpace/issues/8442>. In the meantime, it *is* possible to simply add a “dspace.entity.type” metadata field to an Item to turn it into an Entity. But, you also would likely want to migrate other metadata fields as well.
6. How can author entities be created on the fly?
 - a. ANSWER: At this time, it's only possible with the ORCID Integration. <https://wiki.lyrasis.org/display/DSDOC7x/ORCID+Integration> If you login via ORCID it *is* possible to tell DSpace to create a “Researcher Profile” for your account. This “Researcher Profile” is a Person (Author) Entity and it will sync with ORCID. At this time there's no other automated way to create Person (Author) entities.
7. What steps should we follow to configure SMTP and LDAP in DSpace 7.2?
 - a. ANSWER: For SMTP, we have documentation for email settings here: <https://wiki.lyrasis.org/display/DSDOC7x/Configuration+Reference#ConfigurationReference-DSpaceEmailSettings> For LDAP, we have documentation here: <https://wiki.lyrasis.org/display/DSDOC7x/Authentication+Plugins#AuthenticationPlugins-LDAPAuthentication> If you run into issues or have more specific questions, please use our Support options: <https://wiki.lyrasis.org/display/DSPACE/Support>
8. What value should be set for the config property of ‘db.dialect’ before upgrade?
 - a. ANSWER: As of DSpace 7.3 (and later), the “db.dialect” setting should be set to “org.hibernate.dialect.PostgreSQL94Dialect” for Postgres. This is the default in dspace.cfg (so you don't need to set it yourself): <https://github.com/DSpace/DSpace/blob/main/dspace/config/dspace.cfg#L94> This “db.dialect” is different from 6.x or 7.0-7.2, as we used to create our own dialect..now we just use Hibernate's.
9. Para migrar de una versión DSpace 6.3 a 7.4, ¿qué sería lo más importante a tomar en cuenta en los metadatos, para cuidar lo existente y mejorar en adelante, dadas las actualizaciones en OpenAIRE, por ejemplo? (to Migrate 6.3 to 7.4 what are the biggest things to keep in mind in regards to metadata, to make sure you don't lose anything existing and to improve going forward, especially because of updates to OpenAIRE for example?)

- a. ANSWER: Metadata will automatically migrate from 6.3 to 7.4 when you run the `./dspace database migrate ignored` command (which is part of the upgrade instructions). All 6.x metadata fields are supported in 7.x, so you should see no difference. If you are dependent on OpenAIRE v4, you may want to refer to our documentation on that feature for how to customize the metadata fields it uses (if necessary):

<https://wiki.lyrasis.org/display/DSDOC7x/OpenAIRE4+Guidelines+Compliance> and <https://wiki.lyrasis.org/display/DSPACE/OpenAIRE+Literature+v.4>

- 10. What would be the proper workflow to upgrade from DS4 to DS7 (migrating to DS7 in a brand new server)?

- a. ANSWER: If you wanted to migrate to a new server as part of your upgrade, we have documentation on doing that here:

<https://wiki.lyrasis.org/display/DSDOC7x/Migrating+DSpace+to+a+new+server> I also provided the high level steps for this migration in the “Upgrading to DSpace 7.4” presentation (see link at top of this doc).

- 11. I would appreciate any tip to solve the following? when I try to migrate the database from Dspace 6 to Dspace 7.4 and use the command `./dspace database migrate ignored`, it show some like this:

Versioned	6.0.2016.08.23	DS-3097	SQL	Success	
Versioned	5.0.2014.11.04	Enable XMLWorkflow Migration	JDBC	Ignored	
Versioned	5.7.2017.04.11	DS-3563 Index metadata value resource type id column	SQL	Ignored	
Versioned	5.7.2017.05.05	DS 3431 Add Policies for BasicWorkflow	JDBC	Ignored	
Versioned	6.0.2015.09.01	DS 2701 Enable XMLWorkflow Migration	JDBC	Ignored	
Versioned	6.1.2017.01.03	DS 3431 Add Policies for BasicWorkflow	JDBC	Pending	

- a. ANSWER: That screenshot appears to just show that some migrations have *not run*. This makes me suspect that you may have an error in your (DSpace) logs which is blocking these migrations from running? Everything listed as “Ignored” or “Pending” should run when you use `./dspace database migrate ignored`. I’d recommend looking at your logs for errors. If you find something or need more help, use our Support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>

- 12. Does SOLR need to be available globally or just on localhost?

- a. ANSWER: Solr only needs to be accessible to the DSpace 7 backend. So, if it’s installed on the same server as the backend, then it can be run on localhost. If it’s on a separate server, then you just need to be sure the DSpace 7 backend can access it. Solr should *not* be publicly available on the web.

- 13. Puede indicarnos algún ejemplo de migración de repositorios con software E-Prints a DSpace?

- a. ANSWER: I’ll admit, I don’t have an example of anyone who has migrated from EPrints to DSpace. I’m betting it has been done before though, so you might consider asking our our “dspace-tech” (Tech Support) mailing list if there’s anyone who can share hints/tips with you. <https://groups.google.com/g/dspace-tech/> I’d also be interested in learning the answer to this, because we could perhaps document this in our Wiki for others.

14. Good morning/afternoon. Are we going to learn about the improvements on security of 7.x versions today? Monitoring, reports when service is down, cybersecurity improvements?
- a. ANSWER: As I mentioned in the “Upgrading to DSpace 7.4” talk (see slides linked above), every code change in DSpace is now scanned for possible security vulnerabilities. As of today we are using LGTM.com for that scanning, but are in the process of migrating to Github’s built-in security scanning. We also receive notifications from Github whenever a dependency has a security vulnerability, and we patch DSpace immediately if necessary. One example of this was when the log4j vulnerability came out, we immediately patched it in a 7.1.1 release (<https://github.com/DSpace/DSpace/releases/tag/dspace-7.1.1>) and sent announcements to mailing lists (<https://wiki.lyrasis.org/display/DSPACE/Mailing+Lists>). We also have a security policy linked into all our Github repos (<https://github.com/DSpace/DSpace/security/policy>).
 - i. As for monitoring, we don’t make any recommendations regarding which tools you should use for monitoring your site. We’ve found that this tends to be a local decision as most institutions have a preference for a specific monitoring tool. That said, if you have more specific questions you can ask them on one of our support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>
15. Is it possible to create static JS files of the frontend application and send it out to the browser (where the Angular UI is running)?
- a. Why does DSpace require node.js / PM2 running on the server side? Is it – in principle – possible to use only Tomcat (Java Backend) and a Webserver (Apache or nginx to host static files: CSS, JS, fonts, images) as server-side components?
 - i. ANSWER: In principle, this would work. However, we require Node.js / PM2 in order to support Search Engine Optimization (SEO) and server-side rendering. The Angular platform’s SEO capabilities rely on server-side rendering (<https://angular.io/guide/universal>). We’ve also received feedback from the Google Scholar team that they *need* this server-side rendered content to correctly index your site.
 - b. Is it possible to run the DSpace backend (REST API) on the server side and the frontend completely in the user’s browser?
 - i. ANSWER: Possible, yes. But, your SEO would suffer. See prior answer. I would not recommend this approach unless you don’t care about SEO.
 - c. Why do you recommend SSR? What are the drawbacks of client-side rendering with respect to the DSpace frontend?
 - i. ANSWER: Same answer as above. Essentially SSR is recommended by Angular itself to support SEO and to show the first page more rapidly (<https://angular.io/guide/universal>). The DSpace UI is just using this feature of Angular for the same purposes. It can be turned off in the Angular platform, but we don’t recommend it.

16. Is there a way to do Server Side Rendering for bots and SEO and do Client Side Rendering for normal user who can exec js on their browser?
- ANSWER: Yes, this is the default behavior of the Angular platform, which the DSpace UI uses. The only difference is the *first hit* to the UI will initially load the page based on server-side rendering (in order to load it quickly)...once the JS app downloads to the user's browser, that static page is quickly replaced by the JS app. This is how Angular works & the DSpace UI is just an Angular application. For more on this Angular server-side-rendering feature see <https://angular.io/guide/universal>
17. In Dspace 7.4, I add a new custom metadata for my items, how to configure it to show that additional custom metadata besides title, summary, description, URI?
- ANSWER: Currently, this is not configurable, but can be modified in the codebase or in your theme. You'd want to modify the "untyped-item.component.html" for a normal Item (non-Entity) at <https://github.com/DSpace/dspace-angular/blob/main/src/app/item-page/simple/item-types/untyped-item/untyped-item.component.html> If you look closely at the HTML structure, you'll see each of the metadata fields listed. You can add more fields or remove them by changing that HTML.
18. Recientemente en una actualizacion a Dspace 7.4 , al importar las autoridades tuve un error , ¿hay alguna manera alternativa para sacar dichos datos de la BDD e ingresarlos al solr ? (In a recent update to 7.4, when importing authorities I got an error. Is there a way to take out that data from the BDD and put them in solr?)
- ANSWER: Unfortunately, I don't understand this question, as I don't know what "BDD" means in this context. I'd recommend sending your question to one of our Support channels along with the details about the error you are seeing: <https://wiki.lyrasis.org/display/DSPACE/Support>
19. What are the most relevant SECURITY/CYBERSECURITY improvements for 7.x versions? There will be a monitoring similar to New Realic to allow the managers of repositories to learn when the service is down or under possible malicious attacks? If yes, will these features will be a default or will need to be customized?
- ANSWER: See question 14 above which details the security improvements in DSpace 7 along with how we continuously monitor security. You are welcome to use any monitoring tool you wish to use...we don't have recommendations to offer. I'm not familiar with New Realic myself, so I cannot offer advice, but you are welcome to ask on our Tech Support mailing list to see if others have advice to offer: <https://groups.google.com/g/dspace-tech/>
20. Hola. Qué distribución de Linux aconsejan ? Debian o Ubuntu?
- ANSWER: You can install DSpace on any linux distribution. DSpace supports any operating system. So, I don't have any recommendations here.
21. Es conveniente instalar el backend y el frontend en diferentes servidores?
- ANSWER: The DSpace 7 frontend and backend can be installed on separate servers or on the same server. It really doesn't matter either way. If you have them on separate servers you can use two, slightly smaller servers...if you want them on the same server, you obviously may want more memory, CPU on that server
22. También SOLR es conveniente instalar en un servidor diferente?

- a. ANSWER: This is up to you. Solr can be installed on a separate server or on the same one as the backend. The most important part is that the DSpace 7 backend must be able to access Solr. (Solr only needs to be accessible to the DSpace 7 backend, and it does not need to be publicly available.)
23. In DSpace 7.4, I add a new custom metadata for my items, how to configure it to show that additional custom metadata besides title, summary, description, URI? (Duplicate of 17 above)
24. It's recommend install SSL certificates to use Nginx for frontend, in apache I have may problems, it has guide or wiki.
- a. ANSWER: We offer instructions for setting up Apache in the Installation docs (see the "Backend Installation" step 16 "Production Installation"):
<https://wiki.lyrasis.org/display/DSDOC7x/Installing+DSpace#InstallingDSpace-BackendInstallation> At this time, we don't yet have similar instructions for Nginx, but I'd welcome them. I'm less familiar with Nginx myself, so I'd need contributors to help us with those instructions.
25. Qué puedo hacer cuando apache2 está instalado y el virtualhost está creado pero cuando intento acceder a través de IP, aparece el error 500? (What can I do when apache 2 is installed and the virtualhost is created but when I try to get in through an IP, a 500 error appears?)
- a. ANSWER: See our Troubleshoot an Error guide:
[https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error#Troubleshootanerror-DSpace7.x\(orabove\)](https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error#Troubleshootanerror-DSpace7.x(orabove)) A 500 error generally means that something went wrong on the backend. You'd need to check the backend logs for the details of the error. Without those details it's impossible to provide advice. Once you find those error details, if you need more help, use one of our Support channels:
<https://wiki.lyrasis.org/display/DSPACE/Support>
26. I'm interested in connecting with sites that are currently running with Docker images in production
- a. ANSWER: I'd recommend reaching out on the Tech Support mailing list (dspace-tech):
<https://groups.google.com/g/dspace-tech/> There are thousands of DSpace users on that list, and hopefully if you ask for help on running DSpace 7 on Docker, a few will provide you with hints/tips. Unfortunately, I don't have a list of sites that currently use Docker, but I do know there are some.
27. This proxying from Apache/nginx... does that mean that the server and UI are in essence their own little webservers and apache/nginx is different and simply forwards requests to the other two? Or is everything running on apache/nginx?
- a. ANSWER: Yes, the server and UI are their own "little web servers". The server (backend) runs on Tomcat, and the UI (frontend) runs on Express (Node.js) <https://expressjs.com/>. Both of those act as web servers themselves. It *is* possible to install your SSL cert (for HTTPS) into both Tomcat and Express/Node.js (instead of using a proxy). However, from experience, most people find it difficult to deal with SSL certs in Tomcat & Express/Node.js. So, using Apache or Nginx is sometimes much easier. That said, it is *not* required to use Apache or Nginx, just recommended.
28. With the installing new server approach, are there any issues with running "ant update" instead of "fresh install" as we are already working with a dumped database?

- a. ANSWER: “ant update” and “ant fresh_install” are two different commands. The “ant fresh_install” command will create a DSpace installation directory, initialize the config directories and assetstore, etc. The “ant update” command will only *update* an existing DSpace installation directory. So, if you already have an installation directory, running “ant update” is fine. But, if you don’t have one yet, it’s better to run “ant fresh_install”.
29. Existe documentación sobre puntos a tener en cuenta cuando se realicen cambios al frontend en producción?. Realicé pruebas haciendo unos cambios, recompilando y actualizando en el servidor y ahora tengo algunos problemas con al interfaz (Is there documentation about the points to take into account when you make front-end changes in production? I made some test changes recompiling and updating I the server and now I have some problems with the interface)
- a. ANSWER: I’m not sure I have enough information here. We do have documentation on making customization or configuration changes to the UI at <https://wiki.lyrasis.org/display/DSDOC7x/User+Interface+Customization> and <https://wiki.lyrasis.org/display/DSDOC7x/User+Interface+Configuration> But, it sounds like you may be encountering a very specific issue. So, it might be best to send an email to our Tech Support mailing list (dspace-tech) with the details of what steps you’ve taken and what problems you are seeing. <https://groups.google.com/g/dspace-tech/>
30. Is there a chance to filter the recent submissions on the home page (for instance showing only the latest publications from a specific author or only publications from a specific collection)?
- a. ANSWER: At this time, not exactly. The recent submissions list has some minimal configurations (in the frontend config.*.yml), but there is no way to add filters to that list yet. See the configs at <https://wiki.lyrasis.org/display/DSDOC7x/User+Interface+Configuration#UserInterfaceConfiguration-HomepageSettings> That said, if you click the “Load More” button in the Recent Submissions, it will jump you over to the search interface... where you can filter those same results.
31. In Dspace 7.4, does the mediaViewer play files like mpeg? If yes, what could be the reason why it does not show it to me.
- a. ANSWER: Yes, it should. Here’s an example of an mp4 video file on our demo site: <https://demo7.dspace.org/entities/publication/e1686043-60b4-4c56-bfd6-6f0a6cb46f41> Keep in mind, the video player is *disabled* by default. So, make sure you have enabled it:
<https://wiki.lyrasis.org/display/DSDOC7x/User+Interface+Configuration#UserInterfaceConfiguration-MediaViewerSettings> If it’s still not working for you, you may want to send us an example of this via one of our Support channels: <https://wiki.lyrasis.org/display/DSPACE/Support> (It’s possible there’s a bug, or maybe the video player we are using doesn’t support all formats)
32. As for APIs does the 7.X version work better with DRUPAL (CMS)?
- a. ANSWER: I’m unfamiliar with the DRUPAL plugin to DSpace, so I cannot answer this question. It likely would need to be asked to the DRUPAL community. I can verify though that every feature in DSpace 7 is now available from the REST API...so, if someone updated the Drupal plugin to use that DSpace 7 REST API it may be beneficial.

33. As for the EXTERNAL SOURCE, can it be customized or we will only be able to use the default one (PUBMED, ORCID etc.)?
- a. ANSWER: All intergrations with external sources require Java code to communicate with the external APIs. That said, it *is* possible to add new external sources if you are OK with writing Java code to do so. (There is no way to configure new sources easily at this time). The documentation for creating External Sources can be found at <https://wiki.lyrasis.org/display/DSDOC7x/Live+Import+from+external+sources> If you create additional external sources, I'd recommend sending us Pull Requests with your updates, so that we can possibly add them to a future release of DSpace.
34. Does the submission config allow to show/hide metadata fields based on the value of other, previously filled fields?
- a. ANSWER: Yes, but it can be configured to do this for the Type field (dc.type) only. This is the same as in DSpace 6 (and below) and is called "Item Type-based metadata". The docs are at <https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface#SubmissionUserInterface-ItemtypeBasedMetadataCollection>
35. Enabling entities I can use a popup to select projects from local collection or externa content. Could it be possible use this selector in submission-forms.xml without enabling the collections to use entities. I have tried it but collection must use entities.
- a. ANSWER: If I understand this question, I think the answer is that Collections must be configured to use entities if you are submitting an entity into that Collection. This is one of the documented steps for enabling entities (see step 3) <https://wiki.lyrasis.org/display/DSDOC7x/Configurable+Entities#ConfigurableEntities-EnablingEntities> Unfortunately, I don't think there is a way around this at this time. It might change in the future if we find a better way to manage entities (as I said, Entities are very new and an advanced feature)
36. What about the i18n of submission forms?
- a. ANSWER: In DSpace 7, It is possible to internalize/translate submission forms. However, it currently works the same as it did in DSpace 6 (which is not ideal). It's documented here: <https://wiki.lyrasis.org/display/DSDOC7x/Multilingual+Support#MultilingualSupport-Localizationofsubmission-forms.xml> (You'll see there's a note there which includes a bug ticket about undesirable behavior – you have to duplicate the entire submission configs in order to internationalize them. I'm hoping we'll find a fix for this bug in the near future, but it's currently waiting on scheduling or a volunteer.)
37. And can you use include directives to break the submission forms down to more handy pieces?
- a. ANSWER: At this time, the submission forms are all defined in submission-forms.xml. There's no way to break that file down into different pieces. But, you can reference the same form via its "id" in different steps (in item-submission.xml). Detailed docs on submission configuration can be found at <https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface>
38. Curation tasks can be invoked automatically with deposit workflow or in any workflow steps?
- a. ANSWER: Yes, curation tasks can be invoked during deposit workflow. See the documentation at

<https://wiki.lyrasis.org/display/DSDOC7x/Curation+System#CurationSystem-Inworkflow>

(As a sidenote though, curation tasks are not yet supported in the *submission process*, like they were in 6.x. However, we are working on this. See

<https://github.com/DSpace/DSpace/issues/2868> It may be available in 7.5 or 7.6)

39. You said that entities are an advanced feature. Could you said more about the way you are going to develop them
- a. ANSWER: The plan for Entities is not finalized and will be discussed by DSpace Steering as we start to plan out DSpace 8 and beyond. So, there is no formal plan for how they will proceed in DSpace 8 at this time. The reason they are an “advanced feature” is simply because they are brand new in DSpace 7, and not all features of DSpace support Entities (e.g. AIPs do not yet support Entities). Additionally, there is not a migration path from older Items into Entities, so migrations must be done manually. Once Entities are fully supported in every DSpace feature & we have a migration for them, then they will no longer be considered “advanced”.
40. Is there documentation available, tips, recommended tools for testing performance on very large repository sites? Are there any known performance issues experienced by early adopters with large repository sites?
- a. ANSWER: We have some performance tips in our documentation at <https://wiki.lyrasis.org/display/DSDOC7x/Performance+Tuning+DSpace>. These tips are updated whenever we hear feedback from DSpace users regarding performance tips/hints.. So they are a collaborative effort. We also are currently investigating some reports of performance issues with server-side rendering (i.e. first page load) in DSpace 7.4. What we’ve discovered so far is already documented in the “Performance Tuning” guide (and one main fix is running PM2 in cluster mode). Additional work is in progress though to provide performance improvements in DSpace 7.5. You can find more info at <https://wiki.lyrasis.org/display/DSPACE/DSpace+7+UI+Optimization+Analysis> and also in tickets <https://github.com/DSpace/dspace-angular/issues/1921> and <https://github.com/DSpace/dspace-angular/issues/1954>
41. What about the type-bind functionality in input-forms?
- a. ANSWER: This is supported in DSpace 7 (as of 7.3). See the documentation at <https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface#SubmissionUserInterface-ItemtypeBasedMetadataCollection>
42. Will be available in next releases to add new metadata to collections and communities from the UI??
- a. ANSWER: At this time we do not yet have a ticket for any such change, so there are no immediate plans. However, if you wanted to create a ticket describing your use cases and the features you’d like to see, we can analyze that and see if we can either find a volunteer or schedule the work. Feel free to create a ticket in our github repository at <https://github.com/DSpace/dspace-angular/issues>
43. dspace cris es igual a dspace 7.4? (Is Dspace CRIS same as 7.4?)
- a. ANSWER (by Andrea Bollini – 4Science): No, DSpace-CRIS is a separate project lead by 4Science based on DSpace. 4Science and the DSpace governance are working together to keep them as close as possible and possible merge DSpace-CRIS back in DSpace in future but right now they are separate projects.

- b. ANSWER (By Tim Donohue): What Andrea says is correct, DSpace-CRIS and DSpace are entirely separate projects. I can only answer questions about DSpace, as I'm not involved with DSpace-CRIS. But, Andrea & 4Science can help if you have questions about DSpace-CRIS. Also, like Andea, I do hope that we are able to bring DSpace and DSpace-CRIS closer together in the future & potentially have a single "DSpace" product.
44. Se puede migrar de DspaceCis 5.3 a Dspace 7.4? (Can you migrate from DSpace CRIS to 7.4?)
- a. ANSWER (by Andrea Bollini – 4Science): Migration procedure exists to move from DSpace-CRIS 5 to DSpace-CRIS 7. To move to a plain dspace you will need to figure out how to convert old DSpace-CRIS 5 entities in the new ones and you will lose several of the DSpace-CRIS features not yet built-in DSpace
45. Cómo podemos unirnos a próximas reuniones?? Y tener información actualizada de lo que pasa en la comunidad DSpace
- a. ANSWER: It's unclear which meetings you are referencing, but we did link to a few working groups in the slides (see links above) which are open to anyone to join. The DSpace 7 Working Group is the development team that meets every Thursday. Their meeting schedule & zoom room is documented at <https://wiki.lyrasis.org/display/DSPACE/DSpace+7+Working+Group#DSpace7WorkingGroup-MeetingTimes&CommunicationChannels.1> The DCAT group is the repository manager interest group that meets once per month. Their meeting schedule and zoom room is documented at <https://wiki.lyrasis.org/display/cmtypg/DCAT+Meeting+Notes>
46. For production environment: 1. what is an ideal server requirements? 2. backend and frontend on the same server or each in different servers?
- a. ANSWER: We have some basic requirements notes in our Performance Tuning docs at <https://wiki.lyrasis.org/display/DSDOC7x/Performance+Tuning+DSpace> This page also details ways to improve performance if you encounter issues. Larger sites will need more memory and CPU than the minimum, as noted there. You can decide whether you want the backend and frontend on the same server or not...either way is fine. Separate servers let you perhaps monitor the memory/CPU of each individually. But, they run just as well on the same server...just make sure you have enough memory/CPU for both the frontend and backend.
47. You can migrate dspace 5.4 directly to dspace 7.x or the migration must go through 6.x to get to 7.x
- a. ANSWER: As noted in the Q&A of the "Upgrading to DSpace 7.4" talk, you can upgrade directly from DSpace 5.x to 7.x. There is no need to install 6.x first. However, you should make sure to read the 6.x Release Notes to be aware of changes made in 6.x, as those can also apply to 7.x. One of the main changes in 6.x to be aware of was the change in the backend configuration system (using local.cfg). This same backend configuration system is used in 7.x, so make sure to read about it in the 6.x release notes.
48. Re the config from scratch route: The proxying from apache/nginx... does that mean the server and UI are in essence their own little webservers and apache/nginx is different and simply forwards requests to the other two? or is everything running as its own little site on apache/nginx? E.g. a bit like how you can have multiple sites per webserver using sites-enabled config etc

- a. ANSWER: Yes, the server and the UI have their own “little webservers”. The server (backend) runs on Tomcat, which is its webserver. The UI runs on Express (if using Node.js directly) or PM2 (if using PM2). Both of these act as a basic webserver for the UI. So, developers usually don’t use Apache/Nginx at all...instead they just use Tomcat (localhost:8080) and Node.js/Express (localhost:4000). Apache/Nginx are only useful for production scenarios, as they provide easier ways to add HTTPS, etc than Tomcat/Node.js do. It’s possible to skip installing Apache/Nginx, but I’ve generally heard they make HTTPS management easier, and many people know Apache/Nginx tools better than Tomcat/Node.js
49. Do you plan to establish a bug bounty program?
- a. ANSWER: At this time there are no plans to do so. DSpace relies on Membership and fundraising from institutions that use it. Most of the DSpace budget therefore goes to staff positions. If there was an interest from institutions using DSpace to donate to a separate “bug bounty” budget, then it might be possible. But, at this point, it’s not in the DSpace budget.
50. Is it possible to “upgrade” from DS 7.x to DS-CRIS 7.x? Are there any design decisions that should be avoided in order to make this upgrade process as easy as possible?
- a. ANSWER (by AB – 4Science): there is not yet out-of-box migration procedure, but we can build it if there is demand from the community. The #dspace-cris Slack channel in the dspace workspace is a good place to look for help. If you are not using Configurable Entities yet an option could be to manually run the CRIS flyways scripts that will be reported as out-of-order or to perform an AIP export from DSpace 7 and import in DSpace-CRIS 7. If you are using Configurable Entities you will need to manually convert some of the relation among entities into metadata with authority as DSpace-CRIS prefers the authority framework over the relationship for all the semantic relations among items (author of, funded by etc) where DSpace 7 “normal” relations are used for more structural relations among items
51. Will more media formats be supported by the embedded media player?
- a. ANSWER: The embedded media player is not something we built (or maintain) ourselves. It’s actually two small pieces of code. The basic image viewer is a library we are reusing which is built/maintained at <https://github.com/kolkov/ngx-gallery> It is configured to accept any format who’s mimetype starts with “image/” The video viewer is simply the HTML5 <video> tag which can embed video in a webpage. It is configured to accept any format who’s mimetype starts with “video/”. If there are other formats you’d like to see supported, we’d likely need to locate a library or HTML way to embed those other formats into a page. Please feel free to create a ticket if you have ideas: <https://github.com/DSpace/DSpace/issues>
52. For the local metadata fields they can be easily migrated to newer versions?
- a. ANSWER: Yes. All metadata fields are stored in the database, and the database migrate script will migrate them easily to DSpace 7. So, just follow the normal upgrade process and these will migrate automatically.
53. Using Dspace CRIS 7, can all types of entities, such as Funding, be published in OAI-PMH? Are there any bugs reported?

- a. ANSWER (Andrea Bollini – 4Science): All default entities are exposed in the OAI-PMH CRIS context that implement the OpenAIRE guidelines for CRIS Manager. Other context, as they are dedicated to publications, will hide the other entities (the OpenAIRE Data Repository context dedicated to the Data Archive OpenAIRE guideline will expose Dataset – Product too).
54. Does live import from external sources download bitstreams? If yes, which ones?
- a. ANSWER: No. Currently only metadata can be imported via the live import framework, it could be a future extension. For more information on this framework see the docs at <https://wiki.lyrasis.org/display/DSDOC7x/Live+Import+from+external+sources>

Session 3 (Nov 17, 2022): Developing on DSpace 7.4

1. Are there ready-made themes for Dspace 7.2? If yes, how should they be configured?
 - a. ANSWER: Yes, these were discussed in today's workshop (see the slides linked at the top). There are essentially 2 "ready-made themes". There's the "custom" theme, which is just the default Bootstrap look-and-feel. Then there's the "dspace" theme, which is a small example theme which customizes the style slightly (and is what you see when you visit <https://demo7.dspace.org>). More information on using these themes can be found in the slides from "Developing on DSpace 7.4" or in the documentation at <https://wiki.lyrasis.org/display/DSDOC7x/User+Interface+Customization>
 - i. At this time there are no plans to add additional themes to the codebase. However, we welcome institutions to share their custom themes on GitHub or similar.
2. In order to follow the changes made in the user interface in DSpace 7.2, it is recommended to run the developer interface with the yarn start:dev command in the documents. We ran the developer interface and the system stated that it was listening on the localhost:5000 port. However, when we go to this address, we cannot see any page. Can you give detailed information about running the developer interface mod?
 - a. ANSWER: Running the UI in developer mode is documented in slightly more detail here: <https://wiki.lyrasis.org/display/DSDOC7x/User+Interface+Customization#UserInterfaceCustomization-RunningtheUIinDeveloperMode> It's unclear to me what "detailed information" you are looking for. It sounds like something probably either threw an error when you ran `yarn start:dev` or maybe something is blocking that port (a firewall or similar)? It's also worth noting that obviously when running in developer mode, you can ONLY access the UI from the same machine it is running on (as localhost URLs require you to be on the same machine as the running application). If you need more help, I'd recommend asking on one of our support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>
3. What steps should we follow to configure SMTP and LDAP in DSpace 7.2?

- a. For SMTP, we have documentation for email settings here: <https://wiki.lyrasis.org/display/DSDOC7x/Configuration+Reference#ConfigurationReference-DSpaceEmailSettings> For LDAP, we have documentation here: <https://wiki.lyrasis.org/display/DSDOC7x/Authentication+Plugins#AuthenticationPlugins-LDAPAuthentication> If you run into issues or have more specific questions, please use our Support options: <https://wiki.lyrasis.org/display/DSPACE/Support>
4. ¿Como configurar eclipse (u otro IDE) para desarrollo de dspace 7? (how do I configure the eclipse or other IDE to develop on DSpace? [Adding: Is there a recommended IDE for Dspace Development?])
 - a. ANSWER (by Andrea Bollini – 4Science): we mostly use IntelliJ and Webstorm to have a full stack IDE. Some backend developers are still more familiar with Eclipse, I have just uploaded to the wiki our internal step by step configuration guide <https://wiki.lyrasis.org/display/DSPACE/DSpace+7+development+with+Eclipse> for limited angular modification you can also use Visual Studio but we haven't written any guide for that
5. I'm planning to extend the OIDC authentication to provide authorizations in Dspace 7.4 and wonder if you could direct me to development and deployment models to do customization additions? Thanks.
 - a. ANSWER: I'd highly recommend bringing this sort of work back to the community, as we have an open issue ticket for this same improvement to OIDC: <https://github.com/DSpace/DSpace/issues/8406> If you are interested in contributing this work, let us know on that ticket (add a comment). We'd simply ask that any code you create aligns with our code contribution guidelines. Basic guidelines can be found in our PR checklist at https://github.com/DSpace/DSpace/blob/main/.github/pull_request_template.md#checklist More detailed Code Contribution Guidelines are also on our wiki: <https://wiki.lyrasis.org/display/DSPACE/Code+Contribution+Guidelines> Get in touch with me (Tim Donohue) if there are any questions.
6. Exists any example to do an deposit with its bitstreams using rest api?
 - a. ANSWER: As answered in the Q&A for this presentation, there are Postman configurations/scripts already available that can help here. Additionally, we have documentation on the submission process in our REST API contract, see <https://github.com/DSpace/RestContract/blob/main/submission.md>
7. We at The Library Code started a DSpace Python REST Client Library: <https://github.com/the-library-code/dspace-rest-python>. It's Open Source and we would be happy to get code contributions to it.
 - a. ANSWER (by Andrea Bollini – 4Science): I would recommend to bring this up in a DSpace 7 WG meeting. In my opinion we should provide an home to this kind of project under the dspace-labs umbrella (<https://github.com/DSpace-Labs/>)
8. Configurable Entities: Is it possible to connect normal DSpace items with projects? (How?)

- a. ANSWER (by Andrea Bollini – 4Science) you need to convert them to Publication entities (or another entity that have a relation with project) adding the dspace.entity.type metadata. It would be better for consistency to type the owning collection in the same way or move the converted item in a suitable collection
9. Is it possible to replace default type badge on item list (displaying entity type) by custom type badge to display special types of objects, on the base of dc.type metadata (for example thesis, article, presentation)?
 - a. ANSWER: This was answered in the Q&A for this session. However, the basic answer is Yes this would be possible. It would require customization of the default code however (there's no configuration to make this easy). You'd need to modify the behavior of the "ds-type-badge" tag which is controlled by the type-badge.component.ts: <https://github.com/DSpace/dspace-angular/blob/main/src/app/shared/object-list/type-badge/type-badge.component.ts> That component has access to the entire DSpaceObject, so it should be possible to modify it to change the badge based on what metadata value is found in "dc.type".
 - i. If you find a way to make this configurable or similar, it might be worth considering contributing the code back to us. This may be a feature others would be interested in. Consider creating a ticket & submitting a PR to <https://github.com/DSpace/dspace-angular>
10. Is it possible to make api calls from dspace to another system? I would like to incorporate information from another source into the deposit form as well as search results
 - a. ANSWER: Part of this feature is already possible via the "Live Import from External Sources", which allows you to query external APIs (like PubMed, scopus, etc) from the MyDSpace page in order to pre-populate metadata in a new Submission. This feature was demoed in the "Using DSpace 7.4" talk and was mentioned in other talks. More details can be found at <https://wiki.lyrasis.org/display/DSDOC7x/Live+Import+from+external+sources> (Currently, this External Sources can only be used from MyDSpace and are not possible to query from search results or similar)
 - i. As mentioned in the Q&A of this session, because the DSpace UI is a Javascript UI, it gathers all it's data via API calls. By default obviously it only uses the DSpace REST API. However, it would be possible to modify the DSpace UI to also send API calls to additional systems. That would require code customization as there's no way to do this in the current codebase for the UI.
11. Could csrf/xsrf double submit cookie give problems in a local installation for windows development? Not in the case of using SSL. I have detected cases in my local installation in which I cannot access the logs of the launched processes (such as csv import). It is also quite slow. Is there something that needs to be configured in the browser?
 - a. ANSWER: It's unlikely that CSRF/XSRF protection (double submit cookie) would cause issues on any specific operating system. However, this CSRF protection *requires* HTTPS to be enabled unless you are running everything on localhost. This requirement is because modern web browsers have security protections which will *block* any untrusted/non-secured cookies. These CSRF double submit cookies are often seen as untrusted *unless* they are secured by HTTPS, hence the requirement for HTTPS / SSL.

- i. As for your other issues, it's really hard to provide advice, as it sounds like there are likely errors occurring that we'd need more information about. I'd recommend using the troubleshooting guide to see if you can find more details on the issue:
[https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error#Troubleshootanerror-DSpace7.x\(above\)](https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error#Troubleshootanerror-DSpace7.x(above)) and then ask for support using one of our support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>
- 12. Customization in DSpace Angular: what can be the reason to not display pagination (for collections, item list etc.)?
 - a. ANSWER: More than likely, there's an error occurring that is blocking this display. Whenever something doesn't display in the UI, it's best to look for possible errors on the frontend or backend. I'd recommend using the troubleshooting guide to see if you can find more details on the issue:
[https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error#Troubleshootanerror-DSpace7.x\(above\)](https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error#Troubleshootanerror-DSpace7.x(above)) and then ask for support using one of our support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>
- 13. Is there a set of tutorials that are recommended for a crash-course in DSpace 7 related technologies? - Angular, Spring, etc. (---Please and thank you, developer here, I have the same question)
 - a. Angular: <https://angular.io/docs>
 - b. RxJS: <https://www.akveo.com/blog/an-introduction-to-rxjs-things-you-need-to-know-in-2022>
 - c. NGRX: <https://indepth.dev/posts/1042/how-to-start-flying-with-angular-and-ngrx>
 - d. General javascript concepts:
 - i. <https://codeburst.io/useful-javascript-array-and-object-methods-6c7971d93230>
 - ii. <https://codeburst.io/es6-destructuring-the-complete-guide-7f842d08b98f>
 - iii. <https://javascript.info/rest-parameters-spread>
 - e. Spring technologies:
 - i. Spring Boot: <https://spring.io/guides/gs/spring-boot/>
 - ii. Spring Data REST (While our REST API doesn't use Spring Data REST directly, it is designed with these same principles in mind):
<https://www.baeldung.com/spring-data-rest-intro>
- 14. What is the series of steps when making a deposit? From what I have seen the changes seem to be taking place temporarily when you click on accordion header and finally they are all sent. How would you consider performing the functionality that was in version 6.x to search for an author in the authority control ('Lookup' button) from deposit page?
 - a. ANSWER: It's unclear what you are asking about specifically here. But, the UI steps to make a deposit can be found in the slides of the "Using DSpace 7.4" talk (video will be coming soon as well). DSpace 7 also already supports the same "Lookup" button for author authority control as DSpace 6 did. We didn't demo that option, but it's documented at <https://wiki.lyrasis.org/display/DSDOC7x/ORCID+Authority> (while it's called ORCID authority, it also searches your local authority control obviously). If you have more specific questions here, I'd recommend asking them to one of our Support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>

15. Is it possible to temporarily disable the server-side rendering feature? (Wondering if it might help with debug/learning)
 - a. ANSWER: Yes, just start the server with `yarn run start:dev`, that will only use client-side rendering
16. are there some plans to expand on the store backend. The bitstream store is ok, but i feel somewhat uncomfortable that you lose the filename the information associated with it and that all metadata is only the in database. I know you can export it as SAF or register folder as Items or keep a second backup and stuff like that, but are there ideas to integrate a "human readable" / "self-describing" backend in the store itself, like with ocfl (<https://ocfl.io>) (This is perhaps more dspace8 or 9 scope).
 - a. ANSWER: At this time, the plans for DSpace 8 or beyond have not been finalized. This sort of modification would obviously *not* be done in DSpace 7. It's possible it could be added to the DSpace 8 (or later) plans, but I (Tim) have to admit that this has not been frequently requested among DSpace users. Prioritization of major changes like this obviously depend on it being a priority of institutions who use DSpace. While I have heard the occasional request for OCFL support, it hasn't come up frequently so it's not been a priority as of yet. That said, as we start to discuss DSpace 8 (likely by mid 2023) it's always possible that changes.
17. When customizing elements, like the footer, I assume Angular allows importing web components. Is that correct, and are there any special considerations doing that in DSpace7?
 - a. ANSWER (Art Lowel – Atmire): I don't see why it wouldn't work, but I (Art) haven't tried it myself
18. How can I show the number of items of a collection in a component in homepage in a dynamic fashion?
 - a. ANSWER: If I understand this question correctly, you are asking about the "Item Counts" that used to display in DSpace 6? Those don't yet exist in DSpace 7, but we do have some volunteers working on them...see this ticket: <https://github.com/DSpace/dspace-angular/issues/1787> I'm hopeful that this feature will exist in DSpace 7.5 (or 7.6 at the latest).
19. How can we add a filter to a component data? For example, remove some communities from the homepage community list component.
 - a. ANSWER: There's no configurable way to do this, but *if the component* uses the ["/api/discover/search" endpoint](#) you might be able to simply modify the API request sent by that particular component (as you can specify filters on that search endpoint). However, at this time the endpoint which returns the top-level communities (`/api/core/communities/search/top`) doesn't appear to support filters. So, I think you'd like have to change the entire behavior of that component to achieve this...there doesn't appear to be a simple solution.
20. Cómo atribuir idioma a un recurso de repositorio en un idioma Identifique el idioma principal del recurso. Atribución del idioma principal del recurso debe realizarse tanto a nivel de archivo como de elemento. (How do I attribute language to a resource in order to identify the main language of a resource? The attribution of main language of a resource must be at the file level as well as the item level?)

- a. ANSWER: There's not a specific metadata field in DSpace which does this in the UI. However, you could consider using "dc.language.iso" on the Item object to specify its primary language. If this is not what you are asking about, then you may want to send a more detailed question to one of our Support channels:
<https://wiki.lyrasis.org/display/DSPACE/Support>
21. Are there plans of making the item display themeable, too ? We have lots of own metadata fields needed to be "hard coded" in the main app folder currently.
- a. ANSWER (Art Lowel – Atmire): The item display is already themeable, as it is a listableObjectComponent it needs to be themed in the way I showed in the community list example: so adding the theme name to the decorator and adding the component to the ENTRY_COMPONENTS array in EagerThemeModule
22. En las anteriores versiones de Dspace se presentan problemas en la indexación relacionados a SOLR, con Dspace 7 se mejora este inconveniente?. Esto puede estar relacionado con la diferencia en la cantidad de registros que se muestran en el repositorio con la cantidad que se tiene al hacer la exportación de metadatos?
- a. ANSWER: I'm not sure I understand what "indexing problems" you are referring to in previous versions of DSpace. So, that makes this question difficult to answer, as I don't understand what inconvenience you've encountered in the past and whether or not it's better in DSpace 7. I recommend providing more details on this question, perhaps via email to one of our Support channels: <https://wiki.lyrasis.org/display/DSPACE/Support>
23. I'd like to use 3rd party API on the submission form (for controlled vocabulary), can this be done from angular and where should I start with this?
- a. ANSWER (by Andrea Bollini – 4Science): it is discouraged and against our best practice as you should built it inside the submission framework. The authority framework is the place where you can plugin this external third party API, see for instance <https://github.com/DSpace/DSpace/blob/main/dspace-api/src/main/java/org/dspace/content/authority/SHERPARoMEOPublisher.java> that allow to lookup publisher name from Sherpa Romeo. These are the relevant REST endpoints <https://github.com/DSpace/RestContract/blob/main/vocabularies.md> <https://github.com/DSpace/RestContract/blob/main/vocabularyEntryDetails.md> (Hierarchical Vocabularies are also supported)
24. What IDE is recommended for working on dspace?
- a. ANSWER: If you are going to develop on the rest side, or both rest and angular I'd recommend IntelliJ (free version is fine), although some people swear by Eclipse. If you're only going to do angular development VSCode should work too (see also question/answer 4)
25. Why doesn't home-page in themes folder?
- a. ANSWER: It's available [in the custom theme](#). It isn't added to the dspace theme, to save on build time, because it isn't customized there
26. Github gitlab branch and production , u can talk of best config ? For develop test and push production in 2 LXC debian 11 ? Production backend and production frontend in other LXC?
- a. ANSWER: I'm sorry, I don't understand this question. I can say that you can install DSpace on any operating system, and you can decide whether you want to install both

Kommentiert [GU1]: We cannot retrieving some data, for example certain titles. In addition, we try to use add some filters but the platform not allowed

Kommentiert [TD2R1]: You would need to use the Troubleshooting guide to locate the underlying error. It's not possible to solve this problem without finding the underlying error messages. See this guide for tips: <https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error>

Kommentiert [GU3]: Puedo perder los datos en caso de migrar los datos a esta nueva versión?

Kommentiert [TD4R3]: Data in DSpace is always migrated automatically when you upgrade. There should be no data loss. It's possible you'll need to make theme updates when you upgrade depending on what you've customized before.

- the frontend & backend on the same server or on different servers. Our installation instructions are at <https://wiki.lyrasis.org/display/DSDOC7x/Installing+DSpace>
27. Dspace solo hace búsquedas en archivos PDF, o en cualquier otro formato de archivos, por ejemplo excel (DSpace only does searches in PDFs? Or other kinds of files like Excel?)
- ANSWER: DSpace 7 can search within any file format which is recognized by [Apache Tika](#) (which is what we use for text extraction). By default, DSpace is configured to allow you to perform text extraction & indexing of PDF, CSV, HTML, all Microsoft formats (Word, Excel, PPT, etc), RTF, Text, OpenDocument formats.
28. In 2021 we tried to customize our repository, following the exact steps detailed here today but it didn't work, were there any improvements introduced in the last year?
- ANSWER: There have been a large number of improvements in every 7.x release, including to the upgrade process (at times). If you run into issues with the upgrade process, we'd recommend asking specific questions on one of our Support channels: <https://wiki.lyrasis.org/display/DSPACE/Support> Keep in mind, it's important to provide details about the error messages you are seeing, as those can be very important to providing you with good advice.
29. ~~How to attribute language to a repository resource in one language, that identify the primary language of the resource. Attribution of the primary language of the resource should be done at both the file and item level? (Duplicate of number 20 above)~~
30. Buen día algún momento podrán compartir un ISO con el Dspace 7 Virtualizado con VirtualBOX? (Can you share an ISO with DSpace with VirtualBOX?)
- ANSWER: We don't currently have a centrally maintained ISO for VirtualBox. That said, I recall **Juan Victori** (see note at bottom) mentioning they had done some work with VirtualBox. I'd recommend asking this on our dspace-tech mailing list and maybe someone can help there. <https://groups.google.com/g/dspace-tech/>
31. Me gustaría que expliquen cuales son los pasos a seguir para colocar el sitio en un ambiente de producción, ya que todo funciona correctamente a la hora de ejecutarlo desde localhost, pero los problemas surgen cuando intentamos correrlo a traves de HTTPS. En mi caso tengo configurado el REST correctamente con HTTPS (las pruebas yarn test:rest responde OK) pero el front no responde (se queda cargando y no muestra ningun error, solo la pagina en blanco).
- ANSWER: The installation steps are obviously in the documentation at <https://wiki.lyrasis.org/display/DSDOC7x/Installing+DSpace> If you are seeing a blank page for the UI (or the UI is spinning), it's likely there's an underlying error occurring. We have a guide for troubleshooting this problem at the bottom of the Installation document in a section called "Common Installation Issues": <https://wiki.lyrasis.org/display/DSDOC7x/Installing+DSpace#InstallingDSpace-CommonInstallationIssues> If that doesn't help, I'd recommend trying to find out if any errors are appearing by using our Troubleshooting guide: <https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error>
32. What is the rapid guide to install DSPACE into virtualize server with Alma Linux?. (I would like you to explain what are the steps to follow to place the site in a production environment, since everything works correctly when running it from localhost, but the problems arise when we try to run it through HTTPS. In my case I have configured the REST correctly with HTTPS (the tests

- yarn test: rest responds OK) but the front does not respond (it stays loading and does not show any error, only the blank page))
- a. ANSWER: The installation steps are obviously in the documentation at <https://wiki.lyrasis.org/display/DSDOC7x/Installing+DSpace> If you are seeing a blank page for the UI (or the UI is spinning), it's likely there's an underlying error occurring. We have a guide for troubleshooting this problem at the bottom of the Installation document in a section called "Common Installation Issues": <https://wiki.lyrasis.org/display/DSDOC7x/Installing+DSpace#InstallingDSpace-CommonInstallationIssues> If that doesn't help, I'd recommend trying to find out if any errors are appearing by using our Troubleshooting guide: <https://wiki.lyrasis.org/display/DSPACE/Troubleshoot+an+error>
 33. ~~What is the rapid guide to install DSPACE into virtualize server with Alma Linux?~~ (Duplicate of previous question)
 34. ~~I'm planning to extend the OIDC authentication to provide authorizations in Dspace 7.4 and wonder if you could direct me to development and deployment models to do customization additions?~~ (Duplicate of number 5 above)
 35. Are there any detailed instructions for installation in a production environment (with HTTPS)?
 - a. ANSWER: Yes, the detailed installation instructions (including "Common Installation Issues" at the bottom of the page) can be found in our documentation at <https://wiki.lyrasis.org/display/DSDOC7x/Installing+DSpace>
 36. ~~Hi! is there any recipe to migrate from oracle to PostgreSQL?~~
 - a. ANSWER: I mentioned some options for this in my slides from "Upgrading to DSpace 7.4" (link is at the top of this page). See slide #34 in that talk. The talk recording will also be available in the coming days and shared to DSpace mailing lists.
 37. ~~How to attribute language to a repository resource in one language, that identify the primary language of the resource. Attribution of the primary language of the resource should be done at both the file and item level?~~ (Duplicate of number 20 above)
 38. ~~how to set development environment for backend work in ide like eclipse~~
 - a. See answer to number 4 above, as that's the same sort of question.
 39. Is it possible to keep a "tombstone page" for publication that should no longer be accessible instant of "deleting publication" to free up space?
 - a. ANSWER: If you withdraw the item, you should get such a tombstone page. It was added in [#1556](#) (and is supported in DSpace 7.3 or above)
 40. After customizing bitstream metadata in the submission-form.xml, is it possible to configure/access those customized field from the "Edit" option after submit a publication with the customized bitstream field??
 - a. ANSWER: Yes, you can modify the Edit form for bitstreams in the Submission configuration. See our documentation on the Submission configuration, specifically the section on "Configuring the File Upload Step": <https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface#SubmissionUserInterface-ConfiguringtheFileUploadstep>
 41. How can we make some of the dublin core fields mandatory and some optional in the submission form? Or how to add new dc fields to default user submission form? Is it possible to

create a collection-specific metadata schema? Can a special administrator be assigned to the communities at the same time?

- a. ANSWER: The Submission forms are highly configurable (using an XML-based config on the backend). You can change the metadata fields, number of steps, ordering of steps, required fields, field types, etc. You can also specify a different submission form for different Collections. See the detailed Submission configuration docs at <https://wiki.lyrasis.org/display/DSDOC7x/Submission+User+Interface> Changes to the submission form require rebooting the backend for those to take effect.
 - b. ANSWER #2: Community/Collection Administrators can be managed from the Admin UI. Just Edit the Community or Collection and look at the "Assign Roles" tab. I believe this was shown during the demos of the "Using DSpace 7.4" presentation.
42. Can more filters be added to search results? For example; by Sustainable Development Goals, by image . Or is there an SDG filter in Dspace 7?
- a. ANSWER: Yes. The entire DSpace search is configurable (and uses Solr as a backend). It's configured via backend configs (mostly XML-based). The Search Configuration is described in great detail in the docs at: <https://wiki.lyrasis.org/display/DSDOC7x/Discovery> (Discovery is the name of the DSpace Search/Browsing module which controls everything related to search/browse)

Note: Juan Victori was organizing a group via email for DSpace virtual instance/virtual box that he has running. Lots of interest in that.