



# Joint Institute for Nuclear Research

## Document Management Service

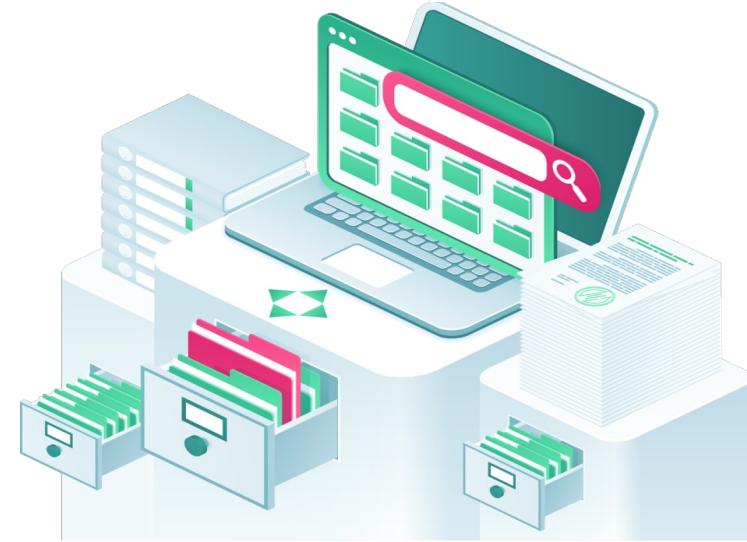
Ivan Sokolov\*, Nikita Balashov

17 December 2024

# Introduction



- Scientific groups collaborate on various types of documents
  - Articles
  - Abstracts
  - Presentations
  - Reports, etc
- Common challenges of collaborative work
  - Organizing safe and structured documents storage
  - Tracking changes of documents
  - Restricting access to documents
  - Sharing of documents
- Many scientific projects generate a significant amount of documents (meta-information + files)



# Background and Motivation



- Scientific communities use various software tools for document storage and collaboration
  - DocDB
  - Xwiki
  - CERN Document Server, etc.
- Several **independent** instances of the DocDB system are deployed at JINR
  - BM@N
  - Baikal-GVD
  - Shared instance for Neutrino projects at JINR
  - Accelerator Division No.1 of the VBLHEP accelerator complex
- Experience with these systems has shown
  - Not fully met requirements:
    - Functional
    - Security and reliability
  - System support and improvement are complex

[\[ DocDB Home \]](#) [\[ Administer \]](#) [\[ New \]](#) [\[ Search \]](#) [\[ Last 20 Days \]](#) [\[ List Authors \]](#) [\[ List Topics \]](#) [\[ List Events \]](#) [\[ Help \]](#)

[Instructions](#)  
[Your Account](#)  
[Preferences](#)  
[Apply to Groups](#)  
[Limit Groups](#)  
[DocDB Statistics](#)  
[About DocDB](#)

[Administer DocDB](#)

Create or change documents or other information

Search for  ([Advanced](#))

Show Neutrino-doc-#  -v

Show documents modified in the last [20](#) days

[Calendar](#) of events or [today's](#) events

List:  
◊ [Authors](#)   ◊ [All documents](#)  
◊ [Topics](#)  
◊ [Groups](#)  
◊ [Keywords](#)

**X-WIKI**

Registration [BM@N Logbook](#) [BM@N Forum](#) [BM@N Database](#)

Menu

> 1. BM@N Subsystems  
> 2. BM@N Runs  
> 3. SRC @ BM@N  
> 4. Documents  
> 4.1 BM@N Management  
> 4.2 Project  
> 4.3 BM@N CDR  
> 4.4 BM@N TDR  
• 4.5 Articles  
• 4.6 Internal Notes  
• 4.7 Theses  
• 4.8 Students  
> 4.9 BM@N Setup  
> 5. Reports  
> 6. Meetings  
> 7. Software  
> 8. Computing

4.5 Articles

Last modified by Alexander Chebotov on 2023/08/01 07:52

Year	Authors	Journal	Title of Article
2020	A. Galavanov, M. Kapishin, V. Karjavine, S. Khabarov, E. Kulish, V. Lenivenko, A. Makankin, A. Maksymchuk, G. Pokatashkin, I. Rufanov, S. Vasilev	IOP	Large area BM@N GEM detectors (PDF)
2020	3. A. Galavanov, M. Kapishin, V. Karjavine, S. Khabarov, Y. Kirushin, E. Kulish, N. Kuzmin, V. Lenivenko, A. Makankin, A. Maksymchuk, S. Puchkin, V. Plotnikov	IOP	Status of the GEM/CSC tracking system of the BM@N experiment (PDF)

Tutorials

- 1. Create Subcategory
- 2. Create Page (with docs)

Recently Created

- 12. BERDS Meeting 24/04/2024 Profile of Dmitry Nikitin
- 11. BERDS Meeting 10/04/2024 10. BERDS Meeting 03/04/2024 09. BERDS Meeting 27/03/2024

Recently Visited

- 4. Documents
- 1. BM@N Subsystems
- 6.1 Collaboration

# Project Overview

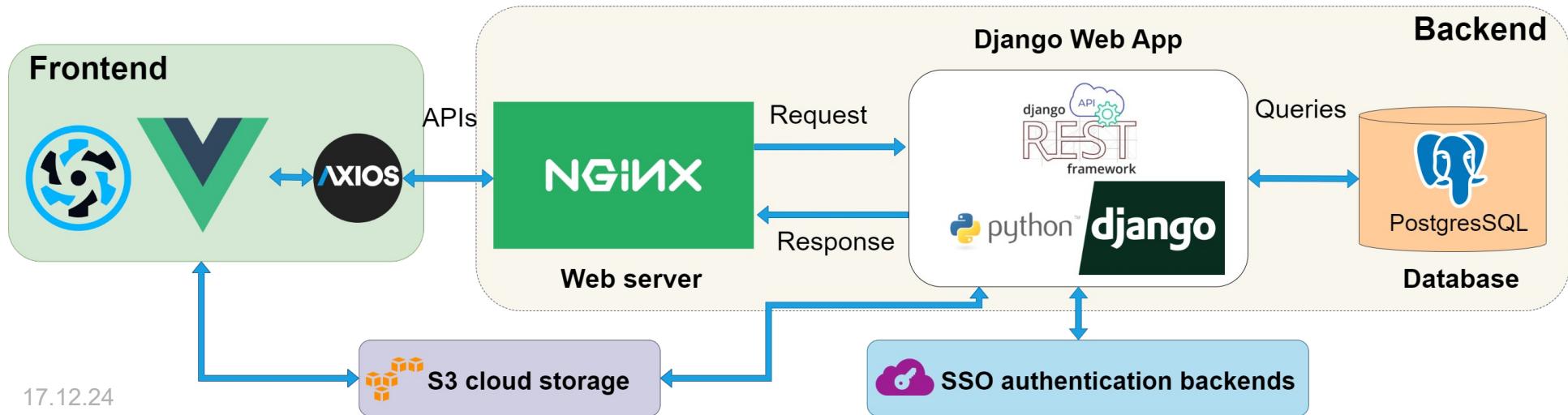


- The goal of the project is to provide a centralized, multi-community documentation storage service for collaborative activities
  - Implement the Core Features of the DocDB system
  - Enhance the access rights system to support groups and projects with flexible access control
- Specific requests from collaborations:
  - Per-document editors (BM@N)
  - Document discussion system (BM@N, SPD)
  - Custom meta-data fields in documents (BM@N)
  - Built-in event calendar (Baikal-GVD, Neutrino projects at JINR)
  - Notification system (All groups)
  - Document review process (BM@N)

# SciDocsCloud Software Platform



- Development of a more secure, reliable and feature-rich software platform
  - Utilizing modern software development tools
  - Leveraging our experience with DocDB system
  - Supporting LocalFS and S3-compatible Cloud storage backends for document files
  - Supporting Single-Sign-On (SSO) authentication
  - Free and open-source software
- Document Management Service (DocMS) for JINR research groups is based on this platform



# Organizational Structure



- **Hierarchical organization**  
*groups / subgroups → projects → documents*
- The idea comes from GitLab
  - Using GitLab terminology
  - Project ≈ GitLab project
- Project contains
  - Document storage
  - Collaboration tools
  - Meta-data management tools
- Document as an abstract entity
  - Form with meta-data fields
  - Collection of files
  - Version control
  - Editors
  - Comments

The screenshot shows the interface of a document management system. At the top, there's a header with a globe icon, language selection (EN), and a search bar. Below the header, a sidebar on the left lists 'MLIT' (selected), 'Manage', 'Topics', 'Keywords', 'Document Types', and 'Settings'. The main content area displays the 'MLIT' group page, which includes the group logo, name ('MLIT Group ID: 12'), and two buttons: '+ NEW SUBGROUP' and '+ NEW PROJECT'. Below these buttons, the text 'Meshcheryakov Laboratory of Information Technologies (MLIT)' is shown. A section titled 'Subgroups and projects' lists four items: 'Cloud Team' (selected, indicated by a blue background), 'JINR Cloud', 'SciDocsCloud', and 'MICC'. Each item has a small icon and some numerical values (0, 2, 3) next to it.

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The screenshot shows the 'Groups' page in the GitLab interface. At the top, there are navigation links for 'Your work' and 'Groups'. Below the header, there are two search/filter boxes: 'Search by name' and 'Last created'. A 'New group' button is located in the top right corner. The main area displays a list of groups, each with a color-coded icon, the group name, and its status (e.g., Developer or Guest). The groups listed are:

Group Name	Type	Members	Issues	Merge Requests	Commits	Last Activity
SciDocCloud	Developer	0	2	2	0	2 days ago
Neutrino Computing Platform	Developer	0	3	3	0	3 days ago
jj_nano	Developer	0	4	8	0	4 days ago
cloud-team	Guest	2	26	11	0	2 days ago
Configuration Management	Developer	0	7	3	0	3 days ago
htcondor	Developer	0	5	2	0	4 days ago

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The screenshot shows a web-based document management system. On the left, a sidebar menu for 'Accelerator Department' includes 'Manage', 'Topics', 'Keywords', 'Document Types', and 'Settings'. The main area displays a list of documents under the heading 'Accelerator Department' (Project ID: 10). The interface includes filters for 'Keywords', 'Document Type', 'Topics', 'Description', 'Abstract', 'Authors', 'Created at', and 'Last Update'. The table lists four documents:

#	Title	Topics	Authors	Last Update
70-v1	Polarized Light Ions in NICA	Beam cooling, Beam dynamics, Collider, Electronics & feedbacks, Engineering	Валерий Анатольевич Лебедев	2 minutes ago
71-v0	Unity of strong science: CP results in Minsk			5 days ago
73-v2	S-Cooling @ NICASoftware concept and requirements	Beam cooling, Beam instrumentation, Collider, Software	Владимир Сергеевич Шлаков	26 days ago
36-v9	Lectures: Colliders	Beam dynamics, Beam optics, Collider	Валерий Анатольевич Лебедев	about 2 months ago

At the bottom right, a red button labeled 'Accelerator applications' is visible.

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The screenshot shows a web interface for managing project members. The top navigation bar includes a logo, language selection (EN), and a search icon. The breadcrumb navigation shows the path: Home > NICA > Accelerator Department > Members. The main title is "Project Members" with a sub-instruction "You can invite a new member to Accelerator Department". A blue button labeled "+ INVITE MEMBERS" is visible. The "Members" tab is selected in the navigation bar. The main content area displays a table of members:

Account	Source	Role
Ivan Sokolov isokolov@jinr.ru		OWNER
Nikita Balashov balashov@jinr.ru	Direct member	Author
Valerij Lebedev valebedev@jinr.ru		OWNER
Oksana Timoshenko timoshenko@jinr.ru	Direct member	Author
Evgenij Gorbachev egorbe@jinr.ru	Direct member	Author
Roman Pivin	Direct member	Author

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The screenshot shows a user interface for managing organizational topics. On the left, a sidebar menu is open, showing 'Topics' selected. The main area displays a list of topics with columns for '#', 'Topic', and 'Description'. Each topic entry includes a red rounded rectangle around its name. A blue button labeled '+ NEW TOPIC' is visible at the top right of the list area.

#	Topic	Description
102	Accelerator applications Accelerator...	Применение ускорителей
96	Beam cooling Accelerator...	Охлаждение пучка
93	Beam dynamics Accelerator...	Динамика пучка
100	Beam instrumentation Accelerator...	Диагностики пучка
94	Beam optics Accelerator...	Пучковая оптика

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MLIT > Cloud Team > SciDocsCloud > scidocscloud-doc-1

## D Development of a document database...

SciDocsCloud Document 1-v14 (latest)

UPDATE DOCUMENT

Default

Document Title: Development of a document database platform "SciDocCloud"

Keywords: Information system, IT, service, web

Description: Статья для публикации в PEPAN

Authors: Ivan Alexandrovich Sokolov (isokolov@jinr.ru), Nikita Alexandrovich Balashov (balashov@jinr.ru)

Topics

Files (1)

Sokolov\_Balashov\_SciDocCloud\_Article\_v3.docx  
260.14 KB  
File type: Document

Notes and Changes: Статья принята на печать. Ожидаем публикации

Comments (4)

Editors(4)  
Fraid Alexxx, Sokolov Ivan, Testov Ivan

Document #: scidocscloud-doc-1-v14 (latest)  
Submitted by: Ivan Sokolov  
Updated by: Ivan Sokolov  
Document Created: 23 Nov 2024, 17:41  
Revised: 10 Dec 2024, 16:59  
Latest Version: scidocscloud-doc-1-v14

Other Versions:  
scidocscloud-doc-1-v14  
Статья принята на печать...  
Статья принята на печать. Ожидаем публикации  
Created at: 10 Dec 2024, 16:59  
scidocscloud-doc-1-v13  
Добавлены правки в статью на...  
Created at: 10 Dec 2024, 16:58  
scidocscloud-doc-1-v12  
Отправлено на рецензию  
Created at: 10 Dec 2024, 16:57

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  - ***Form with meta-data fields***
  - Collection of files
  - Version control
  - Editors
  - Comments

The screenshot shows a document detail page for 'scidocscloud-doc-1-v14'. The main content area is outlined in orange and contains the following fields:

- Document Title:** Development of a document database platform "SciDocCloud"
- Keywords:** Information system, IT, service, web
- Description:** Статья для публикации в PEPAN
- Authors:** Ivan Alexandrovich Sokolov (isokolov@jinr.ru) and Nikita Alexandrovich Balashov (balashov@jinr.ru)
- Topics:** (Listed under the Authors section)
- Files (1):** Sokolov\_Balashov\_SciDocCloud\_Article\_v3.docx (260.14 KB, Document type)

On the right side, there is a sidebar titled 'Editors(4)' listing Fraid Alexxx, Sokolov Ivan, and Testov Ivan. Below that, document details are listed:

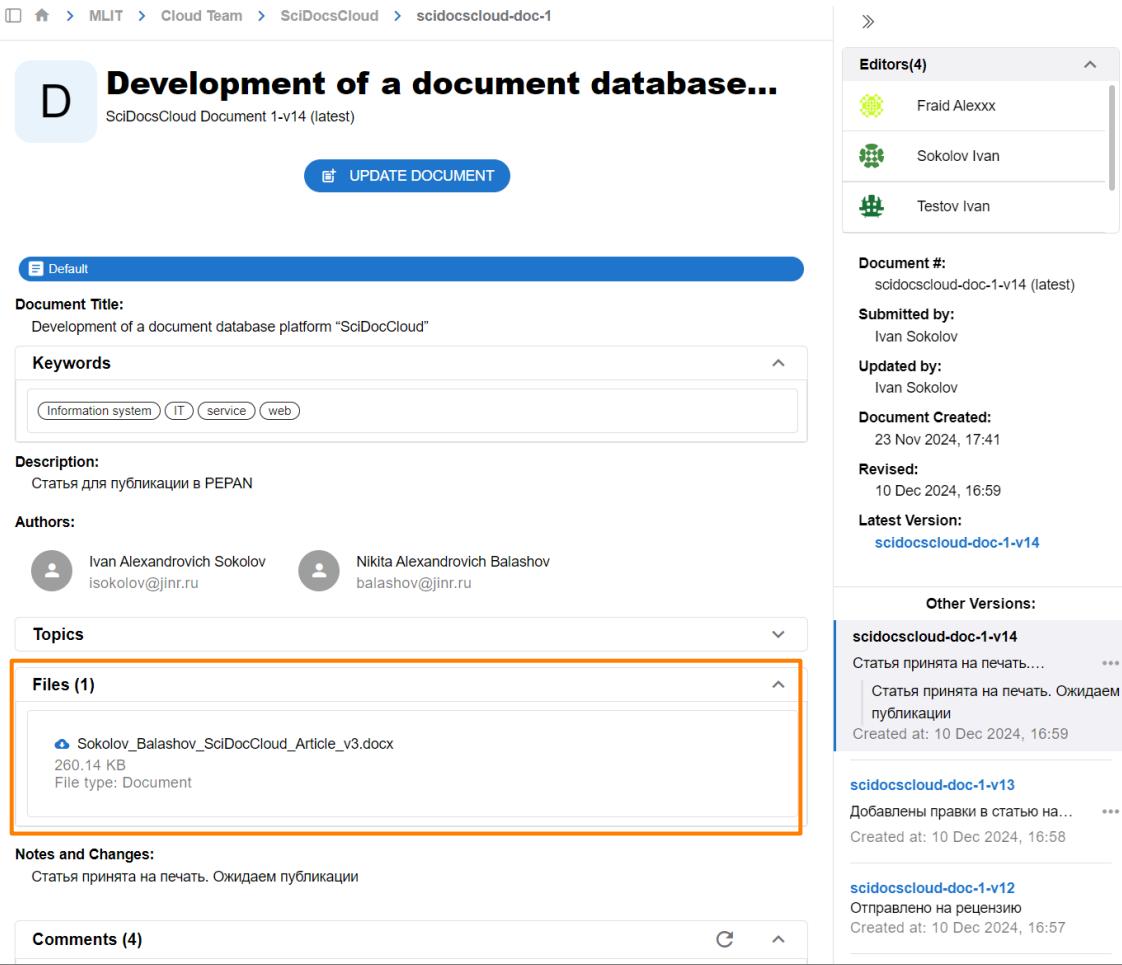
- Document #:** scidocscloud-doc-1-v14 (latest)
- Submitted by:** Ivan Sokolov
- Updated by:** Ivan Sokolov
- Document Created:** 23 Nov 2024, 17:41
- Revised:** 10 Dec 2024, 16:59
- Latest Version:** scidocscloud-doc-1-v14

At the bottom, 'Other Versions' are listed for v14, v13, and v12.

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  - Comments



The screenshot shows a document page from the SciDocCloud platform. The document title is "Development of a document database..." (SciDocCloud Document 1-v14 (latest)). The "Default" tab is selected. The "Document Title" field contains "Development of a document database platform "SciDocCloud"". The "Keywords" field includes "Information system", "IT", "service", and "web". The "Description" field states "Статья для публикации в PEPAN". The "Authors" section lists Ivan Alexandrovich Sokolov (isokolov@jinr.ru) and Nikita Alexandrovich Balashov (balashov@jinr.ru). The "Topics" section is collapsed. The "Files (1)" section is highlighted with an orange border and contains a file named "Sokolov\_Balashov\_SciDocCloud\_Article\_v3.docx" (260.14 KB, File type: Document). The "Notes and Changes" section notes "Статья принята на печать. Ожидаем публикации". The "Comments (4)" section has four comments listed.

Editors(4)

- Fraid Alexxx
- Sokolov Ivan
- Testov Ivan

Document #:

Submitted by:

Updated by:

Document Created:

Revised:

Latest Version:

Other Versions:

- scidocscloud-doc-1-v14
- Статья принята на печать...
- Статья принята на печать. Ожидаем публикации

Created at: 10 Dec 2024, 16:59

- scidocscloud-doc-1-v13
- Добавлены правки в статью на...

Created at: 10 Dec 2024, 16:58

- scidocscloud-doc-1-v12
- Отправлено на рецензию

Created at: 10 Dec 2024, 16:57

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The screenshot shows a document titled "Development of a document database..." (SciDocsCloud Document 1-v14 (latest)). The document has the following details:

- Default**
- Document Title:** Development of a document database platform "SciDocCloud"
- Keywords:** Information system, IT, service, web
- Description:** Статья для публикации в PEPAN
- Authors:** Ivan Alexandrovich Sokolov (isokolov@jinr.ru) and Nikita Alexandrovich Balashov (balashov@jinr.ru)
- Topics:** (dropdown menu)
- Files (1):** Sokolov\_Balashov\_SciDocCloud\_Article\_v3.docx (260.14 KB, Document)
- Notes and Changes:** Статья принята на печать. Ожидаем публикации
- Comments (4):** (dropdown menu)

A large orange arrow points from the "Version control" section of the list above to the "Files (1)" section of the screenshot. Another orange arrow points from the "Comments (4)" section of the list above to the "Comments (4)" section of the screenshot.

**Editors(4)**

- Fraid Alexxx
- Sokolov Ivan
- Testov Ivan

**Document #:** scidocscloud-doc-1-v14 (latest)

**Submitted by:** Ivan Sokolov

**Updated by:** Ivan Sokolov

**Document Created:** 23 Nov 2024, 17:41

**Revised:** 10 Dec 2024, 16:59

**Latest Version:** scidocscloud-doc-1-v14

**Other Versions:**

- scidocscloud-doc-1-v14 (Статья принята на печать...)
- scidocscloud-doc-1-v13 (Добавлены правки в статью на...)
- scidocscloud-doc-1-v12 (Отправлено на рецензию)

Created at: 10 Dec 2024, 16:59

Created at: 10 Dec 2024, 16:58

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The screenshot shows a document titled "Development of a document database..." with the identifier "scidocscloud-doc-1-v14 (latest)". The document title is "Development of a document database platform "SciDocCloud"". It has keywords like "Information system", "IT", "service", and "web". The description is "Статья для публикации в PEPAN". The authors listed are Ivan Alexandrovich Sokolov (isokolov@jinr.ru) and Nikita Alexandrovich Balashov (balashov@jinr.ru). The file "Sokolov\_Balashov\_SciDocCloud\_Article\_v3.docx" (260.14 KB) is attached. The notes mention "Статья принята на печать. Ожидаем публикации". The comments section has 4 entries. On the right, a sidebar titled "Editors(4)" lists Fraid Alexxx, Sokolov Ivan, and Testov Ivan. An orange arrow points from the "Editors" section in the list to the "Editors(4)" sidebar.

D **Development of a document database...**  
SciDocsCloud Document 1-v14 (latest)

UPDATE DOCUMENT

Default

Document Title:  
Development of a document database platform "SciDocCloud"

Keywords

Information system IT service web

Description:  
Статья для публикации в PEPAN

Authors:

Ivan Alexandrovich Sokolov  
isokolov@jinr.ru

Nikita Alexandrovich Balashov  
balashov@jinr.ru

Topics

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Sokolov\_Balashov\_SciDocCloud\_Article\_v3.docx  
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Comments (6)

Ivan Sokolov 5 months ago  
Добавил презентацию и заметки

3 REPLIES Last reply by Nikita Balashov 5 months ago

Konstantin Gercenberger 5 months ago  
Так как у меня будет суммарный доклад по проведенным работам просьба присыпать свои презентации мне, как можно раньше, чтобы у меня было время спокойно сформировать свою презентацию. Крайне желательно не позже этих выходных. Можно присыпать черновые еще версии, чтобы я составил свой доклад, а потом уже подменил итоговыми версиями слайдов

COLLAPSE REPLIES

Ivan Sokolov 5 months ago  
Хорошо

Reply...

B I U A Formatting Default Font

Write a comment here...

COMMENT

# Role-based Access Model



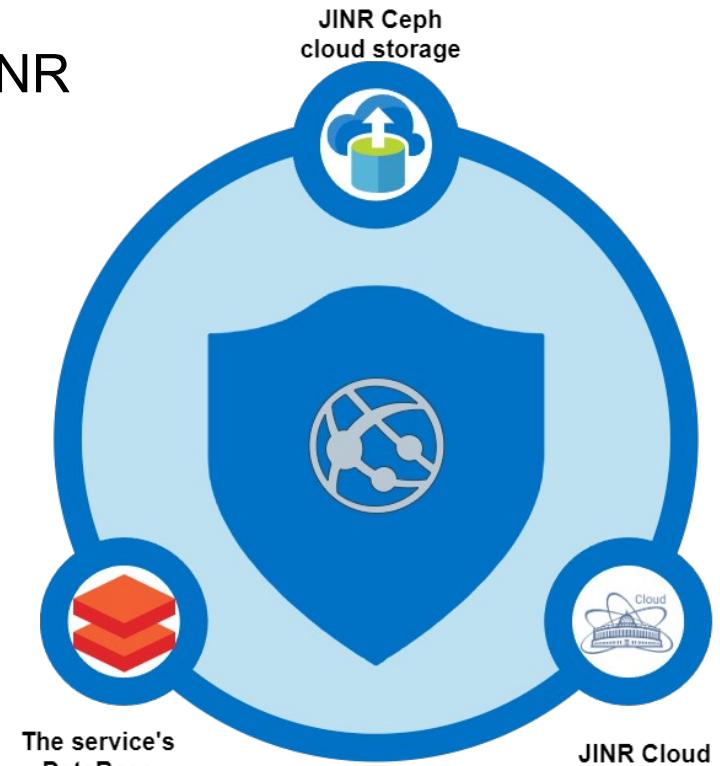
- Access restriction to groups or projects based on roles similar to GitLab
- Each member is assigned a role, which determines what they can do in the project
- Currently implemented roles: Owner, Maintainer, Author, and Viewer
- Nested groups membership

Action	Viewer	Author	Maintainer	Owner
View all	+	+	+	+
Use comment block		+	+	+
Create document		+	+	+
Update document		+-	+-	+
Create group			+	+
Create project			+	+
Create subgroup			+	+
Manage members			+	+
Manage topics			+	+
Manage keywords			+	+
Manage document type			+	+
Edit group			+	+
Edit project			+	+
Remove project				+
Remove group				+
Remove document				+
Manage editor list				+

# Document Management Service (DocMS)



- The platform-based service has been deployed at JINR  
→ ***Document Management Service (DocMS)***
- ***DocMS*** – centralized service for storing, managing, organizing, and collaborating on documents
  - JINR Cloud storage
    - Triple replication
    - Easily scalable
  - Nightly Backups for Service Meta Information Database
  - Deployed on a VM in the JINR Cloud
    - Quick recovery after hardware failure



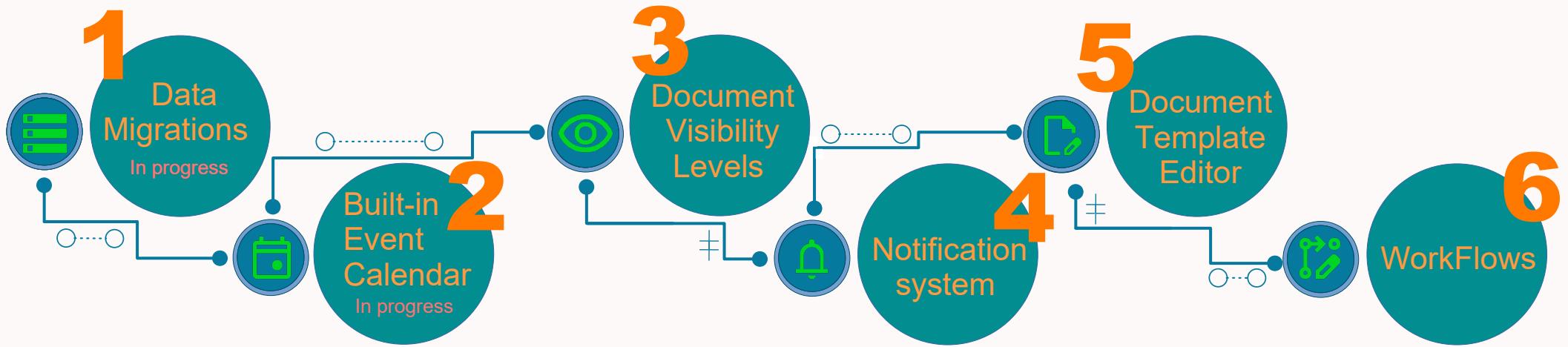
# Document Management Service (DocMS)



- Integrated into the *JINR Digital Ecosystem*
- Available to JINR employees and collaborators via JINR Single Sign-On (SSO) accounts at [docs.jinr.ru](https://docs.jinr.ru) or the *JINR Digital Eco System*
- Actively used and tested by the BM@N collaboration
- Document and user migration mechanism from DocDB is ready for the Accelerator Division
- Upcoming migrations: SPD, Baikal-GVD and Neutrino projects at JINR

The screenshot shows the JINR Digital Eco System interface. At the top, there is a header with the JINR logo, the text "Digital Eco System", "Тестовая v.0.1.1", a search bar, and user information "И.А. Соколов RU". Below the header, there are three main service categories: "Научные сервисы" (Scientific Services), "Административные сервисы" (Administrative Services), and "Сетевые сервисы" (Network Services). Under "Научные сервисы", there are cards for "МИВК" (Multi-functional Informational-Computational Complex), "Суперкомпьютер "Говорун"" (Supercomputer "Govorun"), "Облачная инфраструктура" (Cloud Infrastructure), and "Грид-инфраструктура" (Grid Infrastructure). Each card includes a star rating and a "Открыть в отдельном окне" (Open in new window) link. Under "Сетевые сервисы", there are cards for "JINR Disk" and "GitLab". The "JINR Disk" card also includes a note about being a centralized service for document storage, management, structuring, and collaborative work. The "GitLab" card includes a detailed description of GitLab as an open platform for software development, including tools for version control, task management, code review, and more. At the bottom of the page, there is a footer with the text "© ЛИТ ОИЯИ, 2024. Все права защищены" (© IIT JINR, 2024. All rights reserved).

# Road Map



# Conclusion and FeedBack



- The **SciDocsCloud** platform is free and open-source software for storing and tracking of documents
- The **Document Management Service** for JINR research groups has been deployed based on this platform
- The service is available to JINR employees and collaborators  [docs.jinr.ru](http://docs.jinr.ru) and the [JINR Digital Eco System](#)
- The migration of existing JINR DocDB instances to the DocMS → *in progress*
- For questions, bug reports, or suggestions contact us at [docs@jinr.ru](mailto:docs@jinr.ru)



# Scientific Biography



- Публикации

- > Balashov, N., **Sokolov, I.** Development of a Document Database Platform «SciDocCloud». Phys. Part. Nuclei – Vol. 55. – 2024. – P. 479–481
- > Balashov N.A., **Sokolov I.A.** Development of a document database platform SciDocCloud, Физика элементарных частиц и атомного ядра – 2024, Т. 55, Вып. 3. С. 624
- > Balashov N.A., **Sokolov I.A.** Прототип сервиса хранения научной документации«SciDoc sCloud», Information and Telecommunication Technologies and Mathematical Modeling of High-Tech Systems 2024 (ITTMM 2024)/Book of Abstracts– 2024, С. 4

- Личный вклад

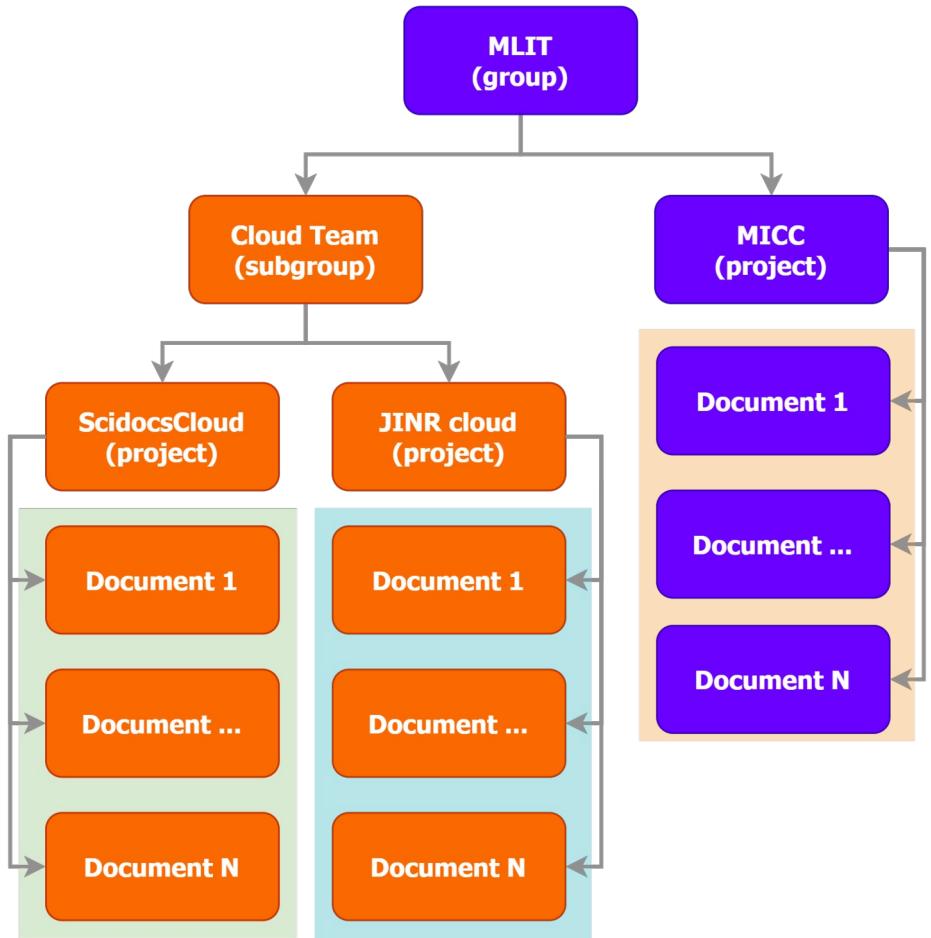
Представленная платформа разрабатывается с «чистого листа». Я являюсь основным проектировщиком, аналитиком, дизайнером и разработчиком. Мой вклад включает создание архитектуры платформы, разработку её функционала, проектирование интерфейсов и организацию взаимодействия с пользователями. Провожу анализ требований и обеспечиваю интеграцию с другими системами и сервисами ОИЯИ. Весь процесс разработки сопровождается тестированием и доработками с учётом отзывов пользователей и запросов от участников коллaborаций





# Additional Slides

# Example of Organizational Structure in Platform



The screenshot shows the platform's user interface for the 'MLIT' group. The top navigation bar includes language selection (EN), a search icon, and a back button. The main content area displays the 'MLIT' group details, such as 'Group ID: 12' and the 'Meshcheryakov Laboratory of Information Technologies (MLIT)' name. Below this, a sidebar lists 'Manage', 'Topics', 'Keywords', 'Document Types', and 'Settings'. The main content area features a 'Subgroups and projects' section with a tree view:

- Cloud Team (subgroup)
- JINR Cloud (project)
- SciDocsCloud (project)
- MICC (project)

At the bottom right of the interface, there are buttons for '+ NEW SUBGROUP' and '+ NEW PROJECT'.