

How we created a Documentation Framework that works across a group of vendors in the Sovereign Cloud Stack community.

A journey from single documentation files to a meaningful information architecture.

@maxwolfs

Knowledge Management Engineer at **Sovereign Cloud Stack**

Gefördert durch:



Bundesministerium
für Wirtschaft
und Klimaschutz

aufgrund eines Beschlusses
des Deutschen Bundestages

tl;dr

What is it?

A set of github action workflows to copy markdown files and folders from many A's to a single B. Once that's done, B is being built into a single page application resulting in the Sovereign Cloud Stack documentation at

<https://docs.scs.community>



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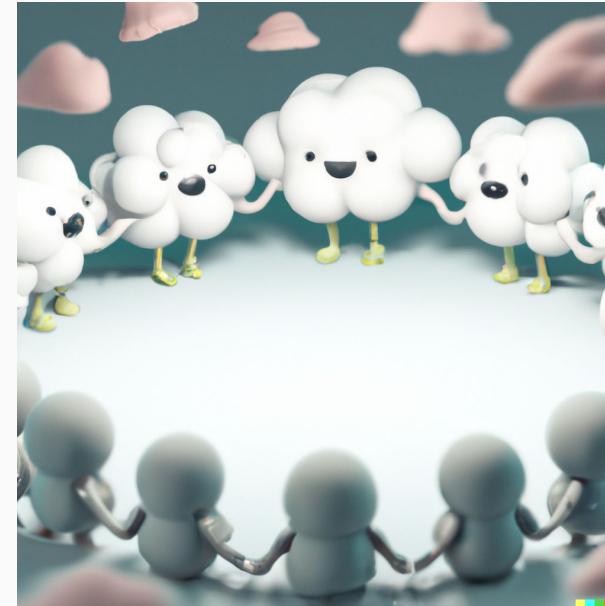


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Sovereign Cloud Stack

What is it?

The Sovereign Cloud Stack combines the best of Cloud Computing in one unified standard. SCS is built, backed, and operated by an active open-source community worldwide.

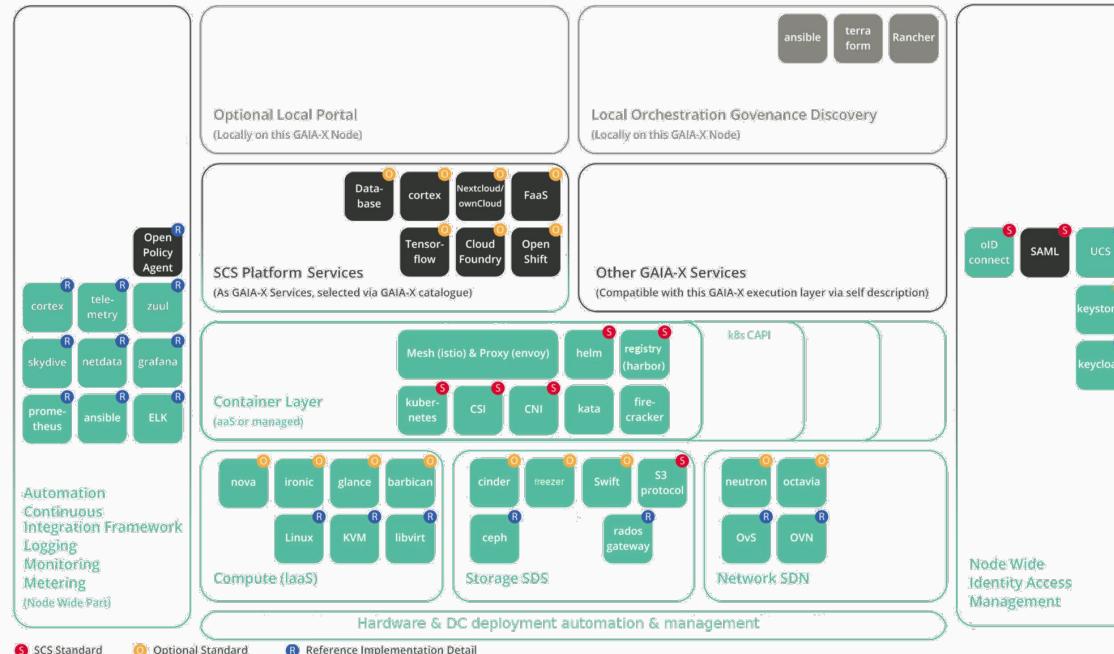


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The SCS Stack is made up from many modules, the docs are heavily distributed



The Challenge

Integrators and Operators have to manage different documentations with different git repos and different docs.

It would be nice to have them within one platform!

But how?

The screenshot shows the OSISM Documentation website. The top navigation bar includes 'OSISM Documentation' and a search bar. Below the header, there's a section titled 'OSISM testbed' with a brief description and a link to the GitHub repository (<https://github.com/osism/testbed>). A note states that the testbed is intended as a playground and will be updated over time. The main content area features a 'KEYCLOAK' logo and a 'Kubernetes' section with a sub-section 'Before you start'. The 'Before you start' section includes a note about Minkube and Ingress add-ons, and a 'Welcome to OpenStack Documentation' section with a brief description of what OpenStack is. On the right side, there's a sidebar titled 'On this page' with links to various documentation sections like 'Before you start', 'Run Keycloak', 'Create a realm', etc., and a 'Edit this guide' button. At the bottom, there's a footer with 'Documentation for Zed (October 2022)' and a 'Languages' dropdown.

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Aim and Requirements to the documentation

- minimal ruleset where approval is *nobrainer*
- all doc files in one place
- low entry hurdle for companies with existing repositories – no one has to make any major changes

git submodules? 

git subtree? 

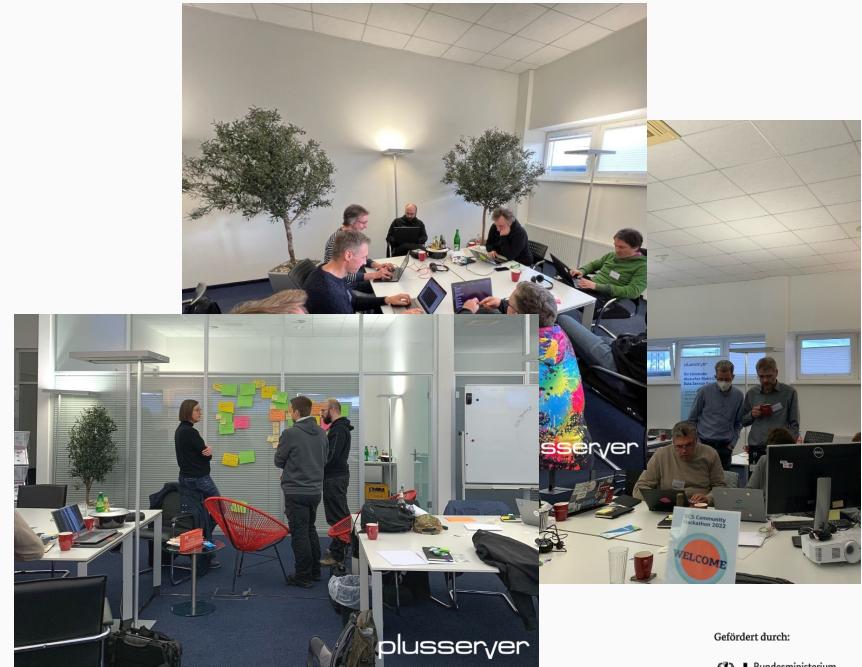
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Unleashing community superpowers

At the SCS Hackathon in November 22 in Cologne hosted by plusserver we have developed a working Prototype of a custom workflow.



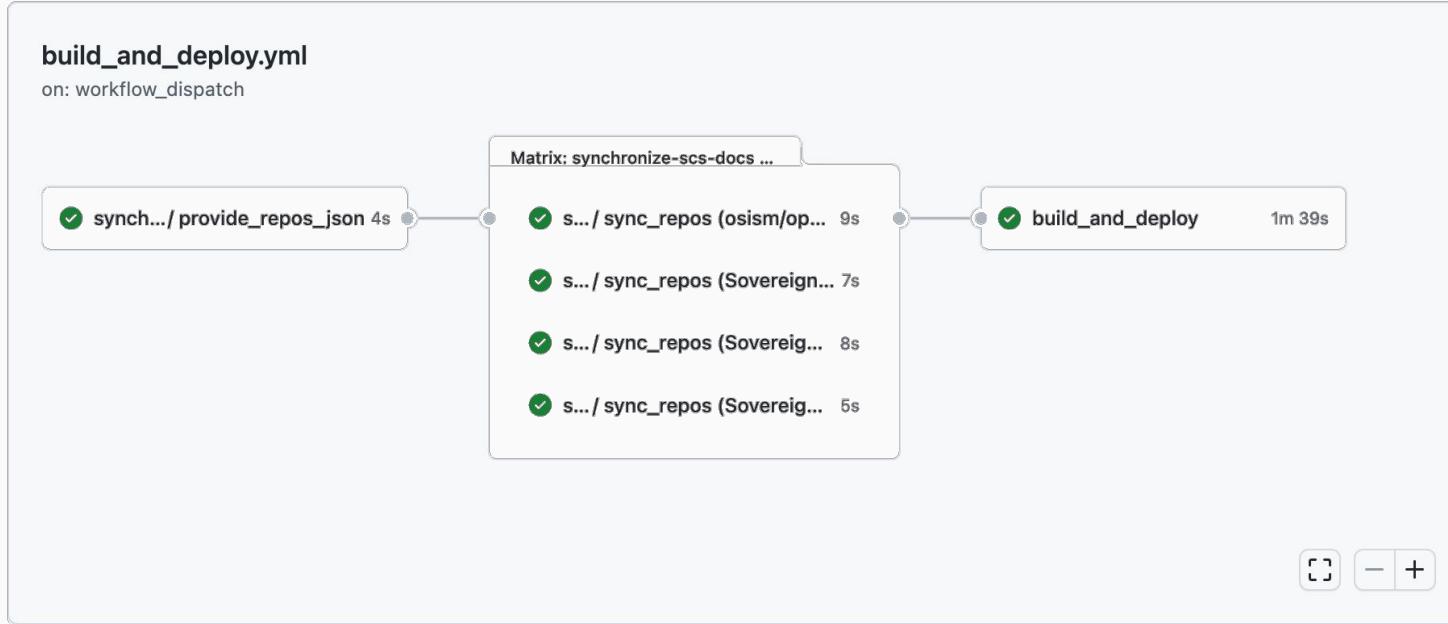
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How does it work?



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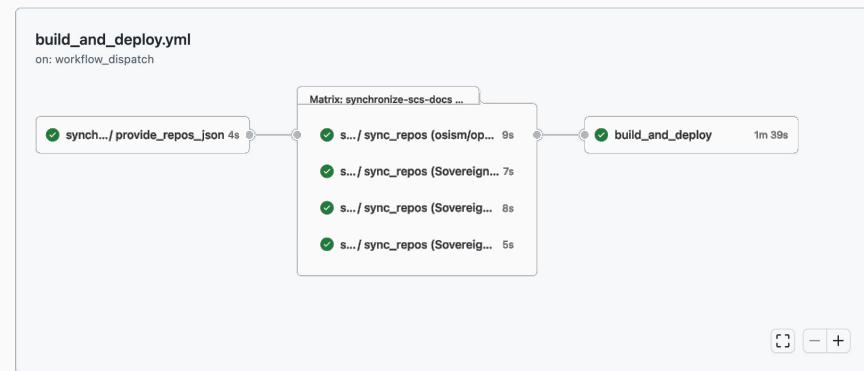
How does it work?

docusaurus as react based static site generator with some GitHub Actions Magic



3 GitHub Actions Workflows:

- Collecting
- Distilling
- Building



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Defining a package.docs.json in the root directory of the docs-page

```
docs.package.json

[
  {
    "repo": "SovereignCloudStack/docs",
    "source": "community/contribute",
    "target": "community",
    "label": ""
  },
  {
    "repo": "SovereignCloudStack/docs",
    "source": "operations",
    "target": "docs",
    "label": ""
  },
  {
    "repo": "SovereignCloudStack/release-notes",
    "source": "*.md",
    "target": "docs",
    "label": "release-notes"
  },
  {
    "repo": "osism/openstack-image-manager",
    "source": "doc/*.md",
    "target": "docs",
    "label": "openstack-image-manager"
  }
]
```

1. Reading the docs.package.json and defining a matrix strategy

```
provide_repos_json
```

```
runs-on: ubuntu-latest
outputs:
  matrix: ${{ steps.set-matrix.outputs.matrix }}
steps:
  - name: Checkout the docusaurus repo (B)
    uses: actions/checkout@v3

  - name: Set Matrix
    id: set-matrix
    run: |
      REPOS=$(echo $(cat ./docs.package.json) | sed 's/ //g' )
      echo "::set-output name=matrix::$REPOS"
```

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2. Synchronizing and distilling workflow

sync_repos

```

needs: provide_repos_json
runs-on: ubuntu-latest
strategy:
  max-parallel: 1
  matrix:
    repos: ${{ fromJson(needs.provide_repos_json.outputs.matrix) }}
steps:
  - name: checkout the docusaurus repo (B)
    uses: actions/checkout@v3
    with:
      token: ${{ secrets.PAT }}

  - name: remove previous docs for clean install
    if: ${{matrix.repos.label != null}}
    run: |
      rm -rf $(pwd)/${{matrix.repos.target}}/${{matrix.repos.label}}

  - name: remove previous docs for clean install
    if: ${{matrix.repos.label == null}}
    run: |
      rm -rf $(pwd)/${{matrix.repos.target}}/${{matrix.repos.source}}
      rm -rf $(pwd)/${{matrix.repos.source}}

  - name: clone repo A which is about to be synchronized
    uses: sudosubin/git-clone-action@v1.0.1
    with:
      repository: ${{matrix.repos.repo}}
      path: 'repo_to_be_edited'

```

```

  - name: remove git folders from A
    run: |
      rm -rf $(pwd)/repo_to_be_edited/.git

  - name: remove README.md files from A
    run: |
      find $(pwd)/repo_to_be_edited -name "README.md" | xargs rm -f

  - name: create docusaurus subdirectory
    run: |
      mkdir $(pwd)/${{matrix.repos.target}}/${{matrix.repos.label}} || true

  - name: copy docs content from A to B
    run: |
      cp -r $(pwd)/repo_to_be_edited/${{matrix.repos.source}}
      $(pwd)/${{matrix.repos.target}}/${{matrix.repos.label}}

  - name: remove repo A
    run: |
      rm -rf $(pwd)/repo_to_be_edited

  - name: commit and push B
    uses: EndBug/add-and-commit@v9
    with:
      author_name: 'bot@scs'
      committer_name: Action Bot
      commit: --signoff
      message: "distill ${{matrix.repos.repo}}"
      push: true
      pull: --rebase --autostash

```

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2.1. Synchronizing and distilling workflow in Detail

```
sync_repos

needs: provide_repos_json
runs-on: ubuntu-latest
strategy:
  max-parallel: 1
  matrix:
    repos: ${{ fromJson(needs.provide_repos_json.outputs.matrix) }}
steps:
  - name: checkout the docusaurus repo (B)
  uses: actions/checkout@v3
  with:
    token: ${{ secrets.PAT }}
```

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2.2. Synchronizing and distilling workflow in Detail

```
- name: remove previous docs for clean install
if: ${matrix.repos.label != null }
run: |
    rm -rf $(pwd)/${{matrix.repos.target}}/${{matrix.repos.label}}


- name: remove previous docs for clean install
if: ${matrix.repos.label == null }
run: |
    rm -rf $(pwd)/${{matrix.repos.target}}/${{matrix.repos.source}}
    rm -rf $(pwd)/${{matrix.repos.source}}


- name: clone repo A which is about to be synchronized
uses: sudosubin/git-clone-action@v1.0.1
with:
    repository: ${{matrix.repos.repo}}
    path: 'repo_to_be_edited'
```

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2.3. Synchronizing and distilling workflow in Detail

```
- name: remove git folders from A
run: |
    rm -rf $(pwd)/repo_to_be_edited/.git

- name: remove README.md files from A
run: |
    find $(pwd)/repo_to_be_edited -name "README.md" | xargs rm -f

- name: create docusaurus subdirectory
run: |
    mkdir $(pwd)/${{matrix.repos.target}}/${{matrix.repos.label}} || true

- name: copy docs content from A to B
run: |
    cp -r $(pwd)/repo_to_be_edited/${{matrix.repos.source}}
$(pwd)/${{matrix.repos.target}}/${{matrix.repos.label}}
```

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2.4. Synchronizing and distilling workflow in Detail

```
- name: copy docs content from A to B
  run: |
    cp -r $(pwd)/repo_to_be_edited/${{matrix.repos.source}}
    $(pwd)/${{matrix.repos.target}}/${{matrix.repos.label}}


- name: remove repo A
  run: |
    rm -rf $(pwd)/repo_to_be_edited/

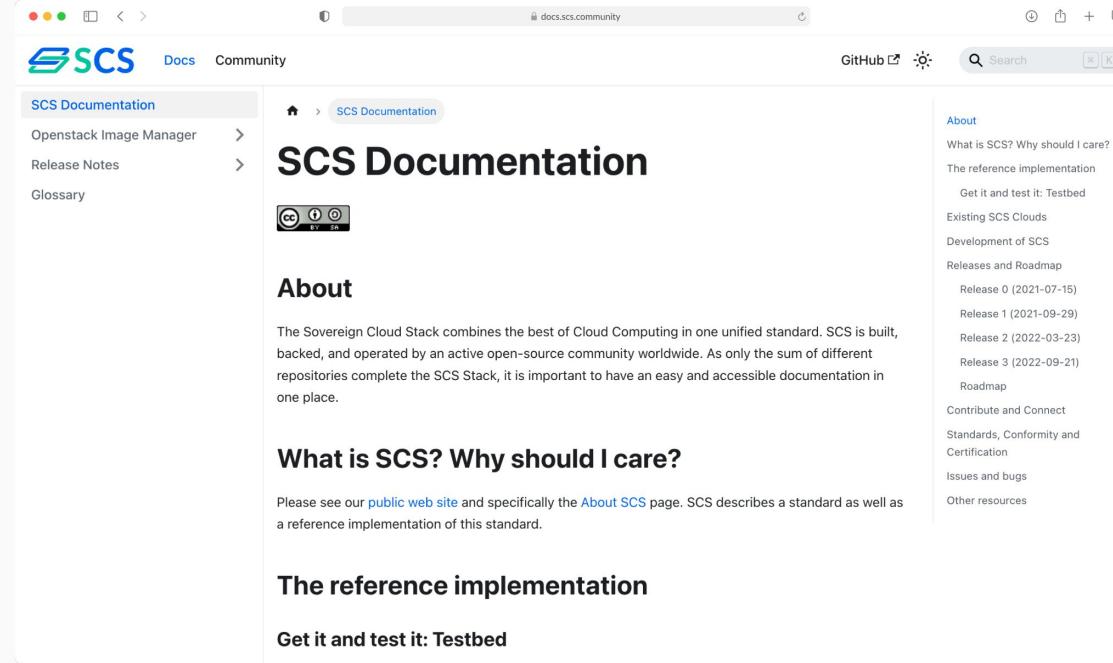

- name: commit and push B
  uses: EndBug/add-and-commit@v9
  with:
    author_name: 'bot@scs'
    committer_name: Action Bot
    commit: --signoff
    message: "distill ${{matrix.repos.repo}}"
    push: true
    pull: --rebase --autostash
```

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The Result: <https://docs.scs.community>



The screenshot shows a web browser displaying the SCS Documentation website. The URL in the address bar is `docs.scs.community`. The page title is "SCS Documentation". On the left, there's a sidebar with "SCS Documentation" and links to "Openstack Image Manager", "Release Notes", and "Glossary". The main content area has a large heading "SCS Documentation" with a "About" section containing a "CC BY SA" license icon. Below it are sections titled "What is SCS? Why should I care?", "The reference implementation", and "Get it and test it: Testbed". A sidebar on the right contains links to "About", "What is SCS? Why should I care?", "The reference implementation", "Get it and test it: Testbed", "Existing SCS Clouds", "Development of SCS", "Releases and Roadmap", "Roadmap", "Contribute and Connect", "Standards, Conformity and Certification", "Issues and bugs", and "Other resources".

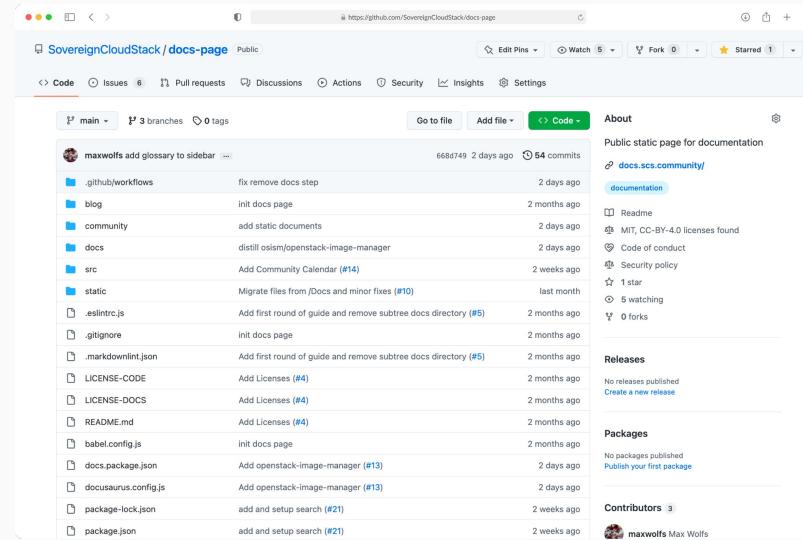
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Feedback

- Ideas, Feedback, Critics?
- Have a look at our repository
- SIG Documentation MeetUp
every 2nd monday from 11:05 AM CET: [Community Calendar](#)



The screenshot shows the GitHub repository page for `SovereignCloudStack / docs-page`. The repository is public and contains 6 issues and 1 pull request. The main branch is 'main'. The repository is described as a 'Public static page for documentation'.

Commits:

- maxwolfs add glossary to sidebar - 668d749 2 days ago (54 commits)
- fix remove docs step - 2 days ago
- init docs page - 2 months ago
- add static documents - 2 days ago
- distill osism/openstack-image-manager - 2 days ago
- Add Community Calendar (#14) - 2 weeks ago
- Migrate files from /Docs and minor fixes (#10) - last month
- Add first round of guide and remove subtree docs directory (#8) - 2 months ago
- init docs page - 2 months ago
- Add first round of guide and remove subtree docs directory (#5) - 2 months ago
- Add Licenses (#4) - 2 months ago
- init docs page - 2 months ago
- Add openstack-image-manager (#13) - 2 days ago
- Add openstack-image-manager (#13) - 2 days ago
- add and setup search (#21) - 2 weeks ago
- add and setup search (#21) - 2 weeks ago

About: Public static page for documentation

Links: [docs.scs.community/](#), [documentation](#)

Statistics: 1 star, 5 watching, 0 forks

Releases: No releases published, Create a new release

Packages: No packages published, Publish your first package

Contributors: maxwolfs Max Wolfs

<https://github.com/SovereignCloudStack/docs-page>

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What is still to come

- structure wise adapting towards diataxis
- currently triggered manually, soon to be automated
- interactive overview about the standards/stack
- fancy community space

Join our community @matrix →



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