

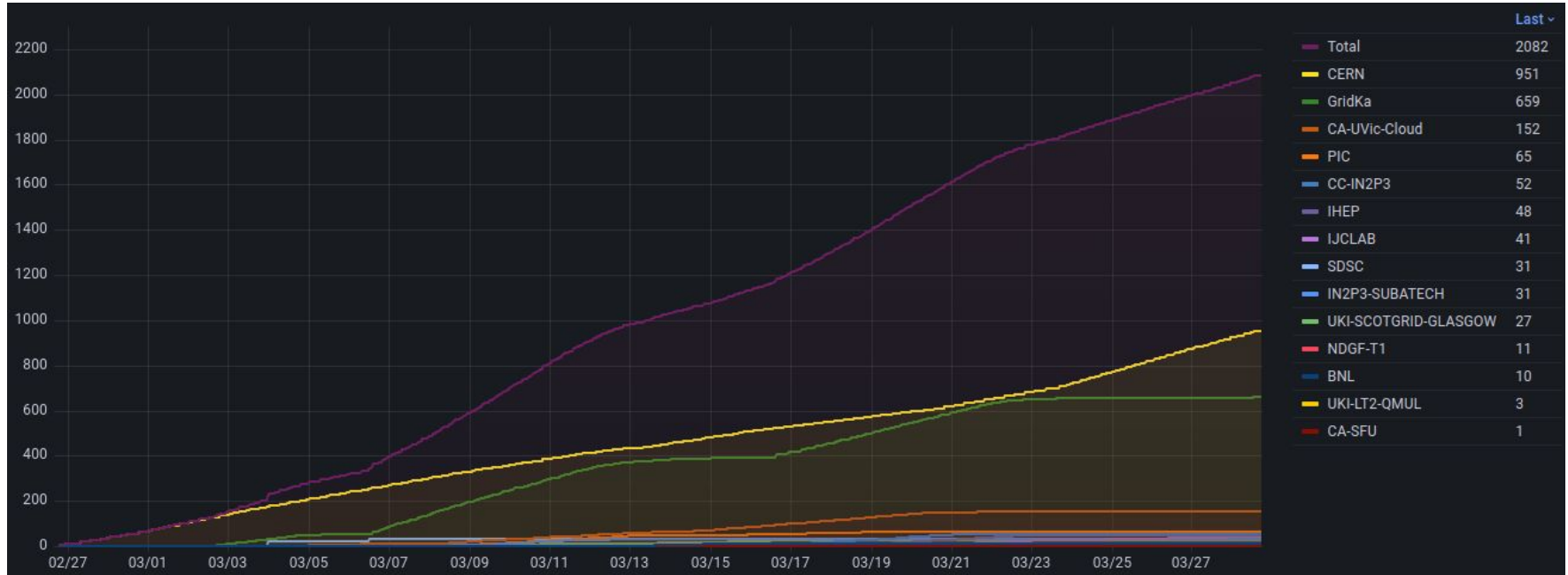


# HS23 Campaign Status Update

Gonzalo Menéndez Borge  
CERN IT

HEP-SCORE deployment TF  
29 March 2023

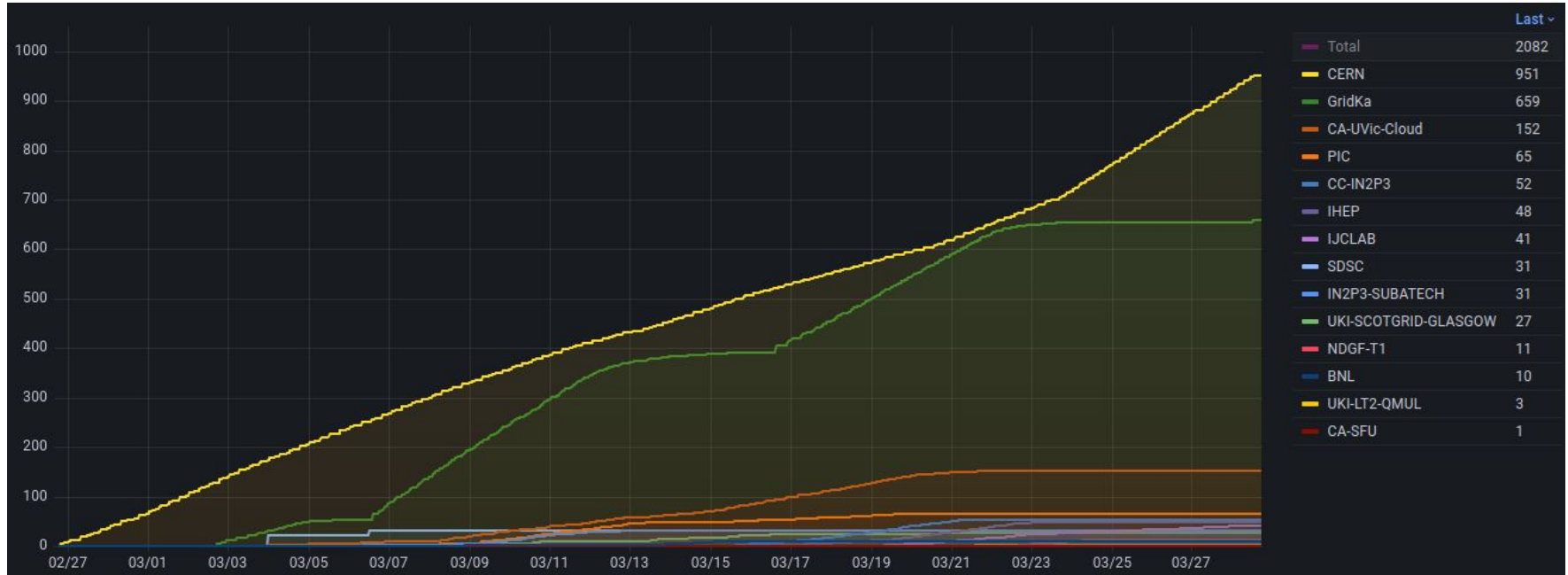
# Cumulative Entries I



Total

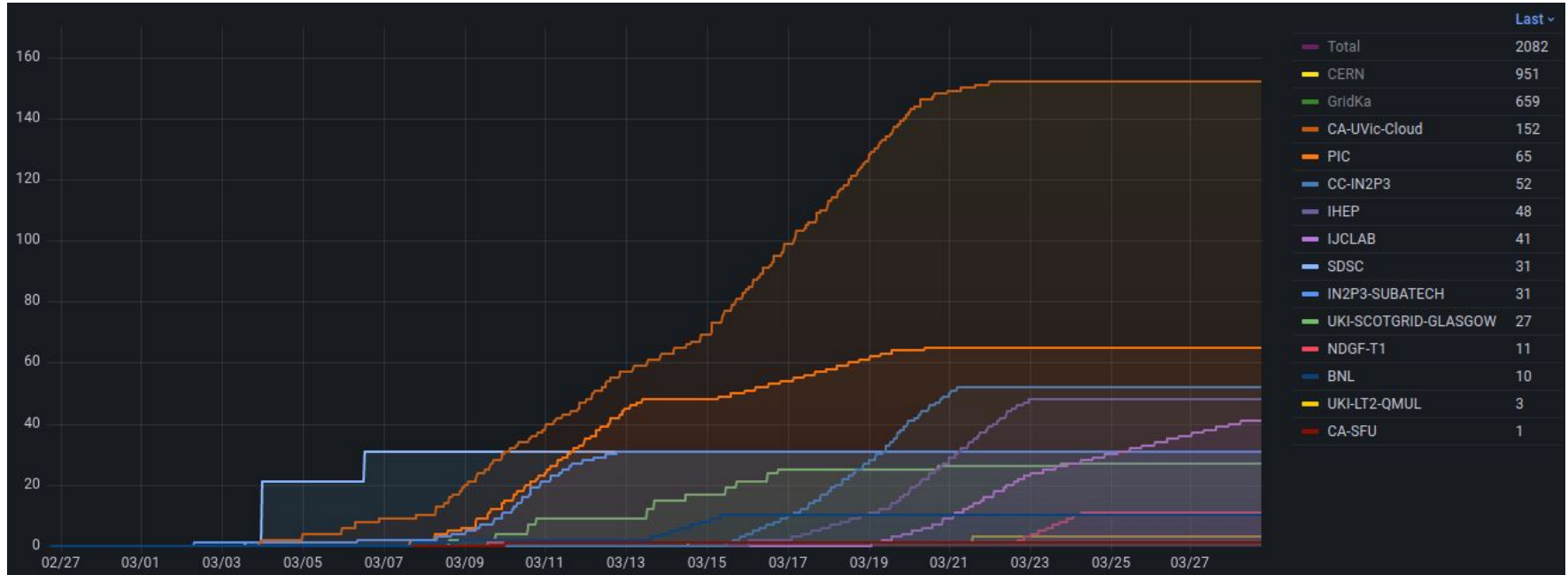


# Cumulative Entries II




All sites

# Cumulative Entries III




Close-up

# Success Rate I

CPU_Model 	SMT_Enabled	Online_CPUs_list	Site	Successful	Failed	Total ↓	Success Rate
Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz	1	0-31	GridKa	160		160	1
AMD EPYC 7302 16-Core Processor	1	0-63	CERN	145		145	1
Intel(R) Xeon(R) CPU E5-2660 v3 @ 2.60GHz	1	0-39	GridKa	120		120	1
Intel(R) Xeon(R) CPU E5-2665 0 @ 2.40GHz	1	0-31	GridKa	116		116	1
AMD EPYC 7742 64-Core Processor	1	0-255	GridKa	98	4	102	0.961
Intel(R) Xeon(R) Silver 4216 CPU @ 2.10GHz	1	0-63	CERN	98		98	1
Intel(R) Xeon(R) CPU E5-2680 v4 @ 2.40GHz	1	0-55	CERN	97		97	1
Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz	1	0-31	CERN	95		95	1
Intel(R) Xeon(R) CPU E5-2650 v4 @ 2.20GHz	1	0-47	CERN	95		95	1
Intel(R) Xeon(R) Gold 6326 CPU @ 2.90GHz	1	0-63	CERN	93		93	1
Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	1	0-31	GridKa	59		59	1
AMD EPYC 7702 64-Core Processor	1	0-255	GridKa	50	3	53	0.943
Intel(R) Xeon(R) Gold 6130 CPU @ 2.10GHz	1	0-63	CERN	44		44	1
Intel(R) Xeon(R) CPU E5-2665 0 @ 2.40GHz	0	0-15	GridKa	40		40	1
AMD EPYC 7302 16-Core Processor	0	0-31	CERN	39		39	1
Intel(R) Xeon(R) Gold 6326 CPU @ 2.90GHz	0	0-31	CERN	39		39	1
Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	1	0-31	CA-UVic-Cloud	38		38	1
Intel(R) Xeon(R) CPU E5-2640 v3 @ 2.60GHz	1	0-31	PIC	32	1	33	0.970
Neoverse-N1	0	0-159	CERN	30		30	1
Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz	0	0-15	CERN	29		29	1

# Success Rate II

CPU_Model 	SMT_Enabled	Online_CPUs_list	Site	Successful	Failed	Total ↓	Success Rate
Intel(R) Xeon(R) CPU E5-2650 v4 @ 2.20GHz	0	0-23	CERN	29		29	1
Intel(R) Xeon(R) CPU E5-2680 v4 @ 2.40GHz	0	0-27	CERN	29		29	1
Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz	0	0-31	CERN	29		29	1
Intel(R) Xeon(R) Gold 6130 CPU @ 2.10GHz	0	0-31	CERN	29		29	1
Intel(R) Xeon(R) Silver 4216 CPU @ 2.10GHz	0	0-31	CERN	29		29	1
AMD EPYC 7453 28-Core Processor	1	0-111	CC-IN2P3	27		27	1
AMD EPYC 7773X 64-Core Processor	1	0-255	IHEP	25		25	1
Intel(R) Xeon(R) Gold 6226 CPU @ 2.70GHz	1	0-47	CA-UVic-Cloud	25		25	1
Intel(R) Xeon(R) Silver 4216 CPU @ 2.10GHz	1	0-63	IJCLAB	25		25	1
AMD EPYC 7773X 64-Core Processor	0	0-127	IHEP	22	1	23	0.957
Intel(R) Xeon(R) Platinum 8362 CPU @ 2.80GHz	0	0-63	SDSC	21		21	1
AMD EPYC 7452 32-Core Processor	1	0-127	CA-UVic-Cloud	18	2	20	0.900
Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz	1	0-31	CA-UVic-Cloud	20		20	1
Intel(R) Xeon(R) CPU E5-2695 v3 @ 2.30GHz	0	0-27	CA-UVic-Cloud	20		20	1
AMD EPYC 7452 32-Core Processor	1	0-127	PIC	16		16	1
AMD EPYC 7702 64-Core Processor	1	0-255	IJCLAB	16		16	1
Intel(R) Xeon(R) CPU E5-2680 v4 @ 2.40GHz	1	0-55	PIC	16		16	1
Intel(R) Xeon(R) CPU E5-2670 v3 @ 2.30GHz	1	0-47	CA-UVic-Cloud	14		14	1
Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHz	1	0-39	CC-IN2P3	14		14	1
AMD EPYC 7513 32-Core Processor	1	0-127	UKI-SCOTGRID-GL...		11	11	NaN

# Success Rate III

AMD EPYC 7302 16-Core Processor	1	0-63	CC-IN2P3	11		11	1
Intel Core Processor (Haswell, no TSX, IBRS)	0	0-23	NDGF-T1	11		11	1
Intel(R) Xeon(R) CPU E5520 @ 2.27GHz	0	0-7	IN2P3-SUBATECH	6	5	11	0.545
AMD EPYC 7742 64-Core Processor	0	0-127	SDSC	10		10	1
Intel(R) Xeon(R) CPU E5-2407 v2 @ 2.40GHz	0	0-7	IN2P3-SUBATECH	10		10	1
Intel(R) Xeon(R) CPU E5-2630 v4 @ 2.20GHz	1	0-39	IN2P3-SUBATECH	10		10	1
Intel(R) Xeon(R) CPU E5-2660 0 @ 2.20GHz	1	0-31	CA-UVic-Cloud	10		10	1
Intel(R) Xeon(R) Gold 6252 CPU @ 2.10GHz	1	0-95	BNL	10		10	1
AMD EPYC 7643 48-Core Processor	1	0-95	UKI-SCOTGRID-GL...	7	1	8	0.875
not_available	0	0-79	UKI-SCOTGRID-GL...	7	1	8	0.875
Intel(R) Xeon(R) CPU E5520 @ 2.27GHz	1	0-15	CA-UVic-Cloud		5	5	NaN
Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	0	0-15	GridKa	5		5	1
AMD EPYC 7742 64-Core Processor	0	0-127	GridKa	3		3	1
Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz	1	0-63	CERN	2		2	1
Intel(R) Xeon(R) Platinum 8260 CPU @ 2.40GHz	0	0-47	CA-SFU		1	1	NaN
AMD EPYC 7402 24-Core Processor	1	0-95	UKI-LT2-QMUL	1		1	1
AMD EPYC 7702 64-Core Processor	0	0-127	GridKa	1		1	1
Intel(R) Xeon(R) Gold 6248R CPU @ 3.00GHz	1	0-95	UKI-LT2-QMUL	1		1	1
Intel(R) Xeon(R) Gold 6252 CPU @ 2.10GHz	1	0-95	UKI-LT2-QMUL	1		1	1



# Machines missing entries

CPU_Model	SMT_Enabled	Online_CPUs_list	Site	Successful	Failed	Total	Success Rate
AMD EPYC 7643 48-Core Processor	1	0-95	UKI-SCOTGRID-GL...	7	1	8	0.875
not_available	0	0-79	UKI-SCOTGRID-GL...	7	1	8	0.875
Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	0	0-15	GridKa	5		5	1
AMD EPYC 7742 64-Core Processor	0	0-127	GridKa	3		3	1
Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz	1	0-63	CERN	2		2	1
AMD EPYC 7402 24-Core Processor	1	0-95	UKI-LT2-QMUL	1		1	1
AMD EPYC 7702 64-Core Processor	0	0-127	GridKa	1		1	1
Intel(R) Xeon(R) Gold 6248R CPU @ 3.00GHz	1	0-95	UKI-LT2-QMUL	1		1	1
Intel(R) Xeon(R) Gold 6252 CPU @ 2.10GHz	1	0-95	UKI-LT2-QMUL	1		1	1
Intel(R) Xeon(R) CPU E5520 @ 2.27GHz	1	0-15	CA-UVic-Cloud		5	5	NaN
Intel(R) Xeon(R) Platinum 8260 CPU @ 2.40GHz	0	0-47	CA-SFU		1	1	NaN

# Missing CPUs

- CPUs appearing in past benchmark results which haven't run HS23

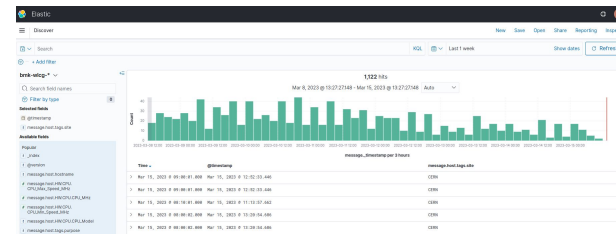
- Please check if they are still around!
- Especially interesting
  - Allow comparison vs past entries

CPU_Model	Site
Intel(R) Xeon(R) Gold 6334 CPU @ 3.60GHz	CaltechLIGO
Intel(R) Xeon(R) Gold 6326 CPU @ 2.90GHz	CaltechLIGO
Intel(R) Xeon(R) E-2374G CPU @ 3.70GHz	CaltechLIGO
Intel(R) Xeon(R) CPU E3-1240 v5 @ 3.50GHz	CaltechLIGO
AMD EPYC 7763 64-Core Processor	CaltechLIGO
AMD EPYC 75F3 32-Core Processor	CaltechLIGO
AMD EPYC 7573X 32-Core Processor	CaltechLIGO
AMD EPYC 7543 32-Core Processor	CaltechLIGO
AMD EPYC 74F3 24-Core Processor	CaltechLIGO
AMD EPYC 7313 16-Core Processor	CaltechLIGO
Intel(R) Xeon(R) Silver 4316 CPU @ 2.30GHz	CC-IN2P3
Intel(R) Xeon(R) Silver 4314 CPU @ 2.40GHz	CC-IN2P3
Intel(R) Xeon(R) Gold 6326 CPU @ 2.90GHz	CC-IN2P3
Intel(R) Xeon(R) Gold 5320 CPU @ 2.20GHz	CC-IN2P3
Intel(R) Xeon(R) CPU E5-2680 v2 @ 2.80GHz	CC-IN2P3
Intel(R) Xeon(R) CPU E5-2650 v4 @ 2.20GHz	CC-IN2P3
AMD EPYC 7513 32-Core Processor	CC-IN2P3
AMD EPYC 7443 24-Core Processor	CC-IN2P3

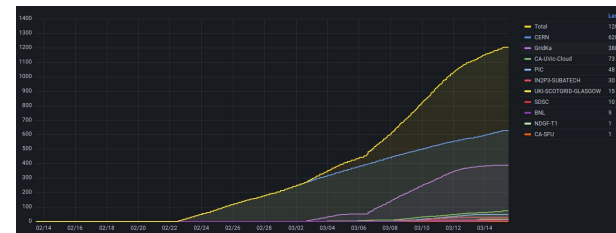
CPU_Model	Site
AMD EPYC 7313 16-Core Processor	CC-IN2P3
Intel(R) Xeon(R) CPU E5-2630 v4 @ 2.20GHz	CCIPL-SUBATECH
Intel(R) Xeon(R) Gold 5118 CPU @ 2.30GHz	GridKa
Intel(R) Xeon(R) CPU E5-2630 v4 @ 2.20GHz	GridKa
Intel(R) Xeon(R) CPU E5630 @ 2.53GHz	GridKa
AMD Opteron(tm) Processor 6376	GridKa
AMD Opteron(tm) Processor 6174	GridKa
AMD EPYC 7713 64-Core Processor	GridKa
Intel(R) Xeon(R) Gold 6338 CPU @ 2.00GHz	IHEP
Intel(R) Xeon(R) Gold 6258R CPU @ 2.70GHz	IHEP
Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHz	IHEP
Intel(R) Xeon(R) Gold 6238R CPU @ 2.20GHz	IHEP
Intel(R) Xeon(R) Silver 4210 CPU @ 2.20GHz	IN2P3-SUBATECH
Intel(R) Xeon(R) CPU E5-2697 v4 @ 2.30GHz	INFN-T1
AMD EPYC 7351 16-Core Processor	INFN-T1
Intel(R) Xeon(R) Gold 6148 CPU @ 2.40GHz	Nikhef
Intel(R) Xeon(R) CPU E5-2680 v3 @ 2.50GHz	Nikhef
Intel(R) Xeon(R) CPU E5-2650 v4 @ 2.20GHz	Nikhef
AMD EPYC 7H12 64-Core Processor	Nikhef
AMD EPYC 7702P 64-Core Processor	Nikhef
AMD EPYC 7551P 32-Core Processor	Nikhef

# Process Summary

- ❑ Download our script from [Gitlab](#)
  - Make sure you have the latest version! (1.2)
    - Now printed at the beginning of the execution
- ❑ Use the new options to run it
  - `./run_HEPscore.sh -s SITE -p -c ./cert.pem -k ./key.pem`
    - `./run_HEPscore.sh -help` to see all options
- ❑ `bmksend` available to send results
  - `bmksend -c {SUITE_CONFIG_FILE} {SUITE_RESULTS_DIR}`
    - `--dryrun` option available to check the files to be sent
  - Recursively traverses the results dir(s)
  - Doesn't create duplicates! 😊



Kibana

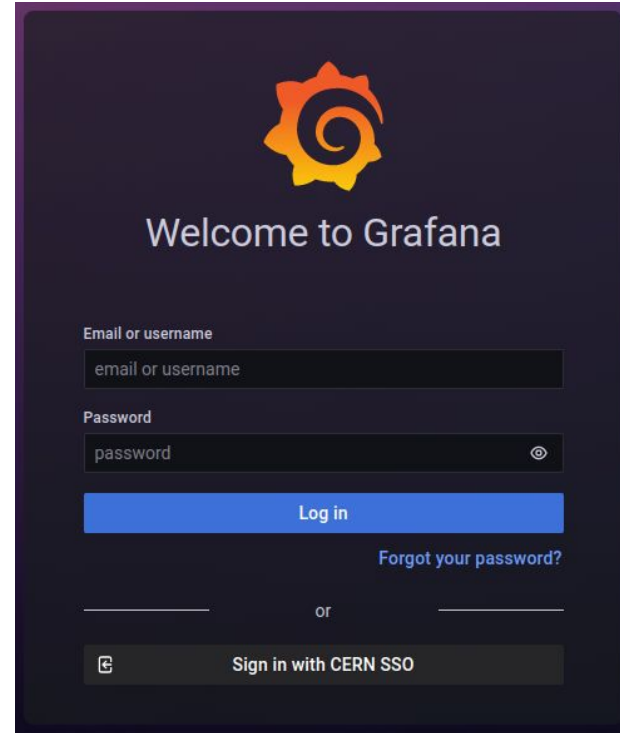


Grafana

# Data Privacy in Monit Grafana

# Layer 1: Endpoint

- ❑ monit-grafana
  - Managed by the [MONIT team](#)
- ❑ Can only be accessed by
  - Internal user
  - SSO users
    - Set to Social Account
    - Pretty open!
- ❑ Open endpoint?
  - Don't believe there is a need



# How public is Public?

## ❑ Set by MONIT to: Social Account (lowest)

- CERN users
- eduGain
- External validated email
- Social accounts
  - Google
  - LinkedIn
  - GitHub
  - Facebook

## ❑ They need to accept

- CERN Computing Rules
- Privacy Policy

The screenshot displays the CERN login page with two main sections:

- Sign in with a CERN account:** Includes fields for Username and Password, a "Forgot Password?" link, and a blue "Sign In" button.
- Sign in with your email or organisation:** Offers "Home organisation - eduGAIN" (with a building icon) and "External email - Guest access" (with an envelope icon).
- Or sign in with a social account:** Includes a disclaimer: "By clicking on the buttons below, you consent to CERN's transfer of your login request to the social provider and to receive your account name, name and e-mail for authenticating you. See more details in our [Privacy Notice](#)." Below this are buttons for Google, LinkedIn, GitHub, and Facebook.
- Or use another login method:** Includes buttons for "Two-factor authentication" (with a key icon) and "Kerberos" (with a right-pointing arrow icon).
- Disclaimer:** A box at the bottom states: "By logging in, you agree to comply with the [CERN Computing Rules](#), in particular OC5. CERN implements the measures necessary to ensure compliance."

# Layer 2: Organization

## Roles

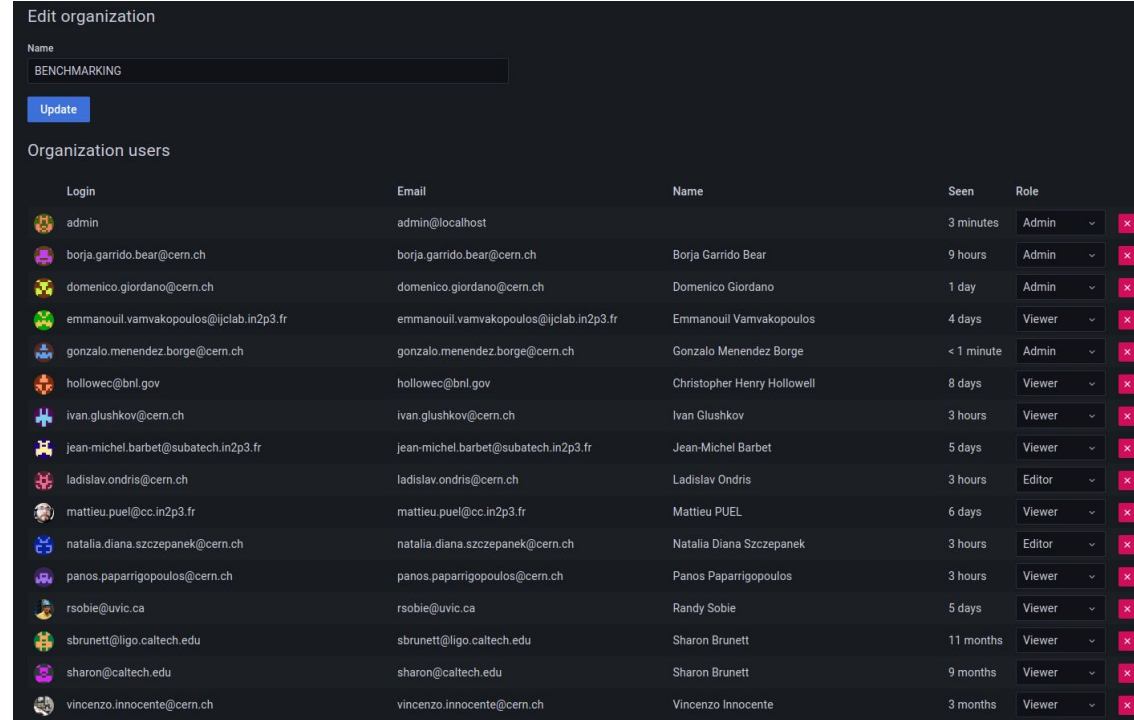
- Admin
- Editor
- Viewer

## Private (Current)

- Access needs to be granted per user
  - No LDAP integration 😞
- Org can't even be seen (w/o a role)

## Public

- Anyone is a Viewer by default
  - Can be restricted to CERN accounts
- Editor/Admins require manual action

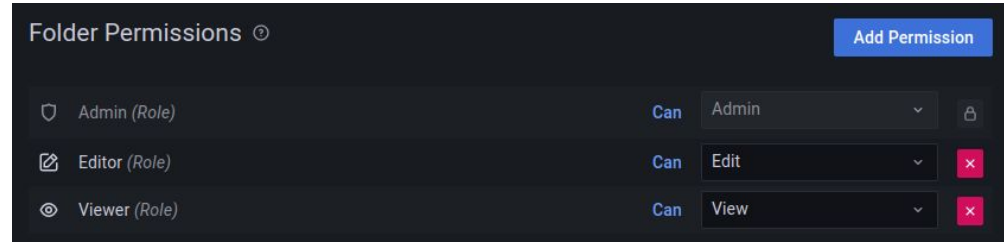


The screenshot shows the 'Edit organization' interface for an organization named 'BENCHMARKING'. Below the name field is an 'Update' button. The main part of the interface is a table titled 'Organization users' with the following columns: Login, Email, Name, Seen, and Role. Each row represents a user with their respective details and a red 'X' icon in the Role column.

Login	Email	Name	Seen	Role
admin	admin@localhost		3 minutes	Admin
borja.garrido.bear@cern.ch	borja.garrido.bear@cern.ch	Borja Garrido Bear	9 hours	Admin
domenico.giordano@cern.ch	domenico.giordano@cern.ch	Domenico Giordano	1 day	Admin
emmanouil.vamvakopoulos@ijclab.in2p3.fr	emmanouil.vamvakopoulos@ijclab.in2p3.fr	Emmanouil Vamvakopoulos	4 days	Viewer
gonzalo.menendez.borge@cern.ch	gonzalo.menendez.borge@cern.ch	Gonzalo Menendez Borge	< 1 minute	Admin
hollowec@bnl.gov	hollowec@bnl.gov	Christopher Henry Hollowell	8 days	Viewer
ivan.glushkov@cern.ch	ivan.glushkov@cern.ch	Ivan Glushkov	3 hours	Viewer
jean-michel.barbet@subatech.in2p3.fr	jean-michel.barbet@subatech.in2p3.fr	Jean-Michel Barbet	5 days	Viewer
ladislav.ondris@cern.ch	ladislav.ondris@cern.ch	Ladislav Ondris	3 hours	Editor
mattieu.puel@cc.in2p3.fr	mattieu.puel@cc.in2p3.fr	Mattieu PUEL	6 days	Viewer
natalia.diana.szczepanek@cern.ch	natalia.diana.szczepanek@cern.ch	Natalia Diana Szczepanek	3 hours	Editor
panos.paparrigopoulos@cern.ch	panos.paparrigopoulos@cern.ch	Panos Paparrigopoulos	3 hours	Viewer
rsobie@uvic.ca	rsobie@uvic.ca	Randy Sobie	5 days	Viewer
sbrunett@ligo.caltech.edu	sbrunett@ligo.caltech.edu	Sharon Brunett	11 months	Viewer
sharon@caltech.edu	sharon@caltech.edu	Sharon Brunett	9 months	Viewer
vincenzo.innocente@cern.ch	vincenzo.innocente@cern.ch	Vincenzo Innocente	3 months	Viewer

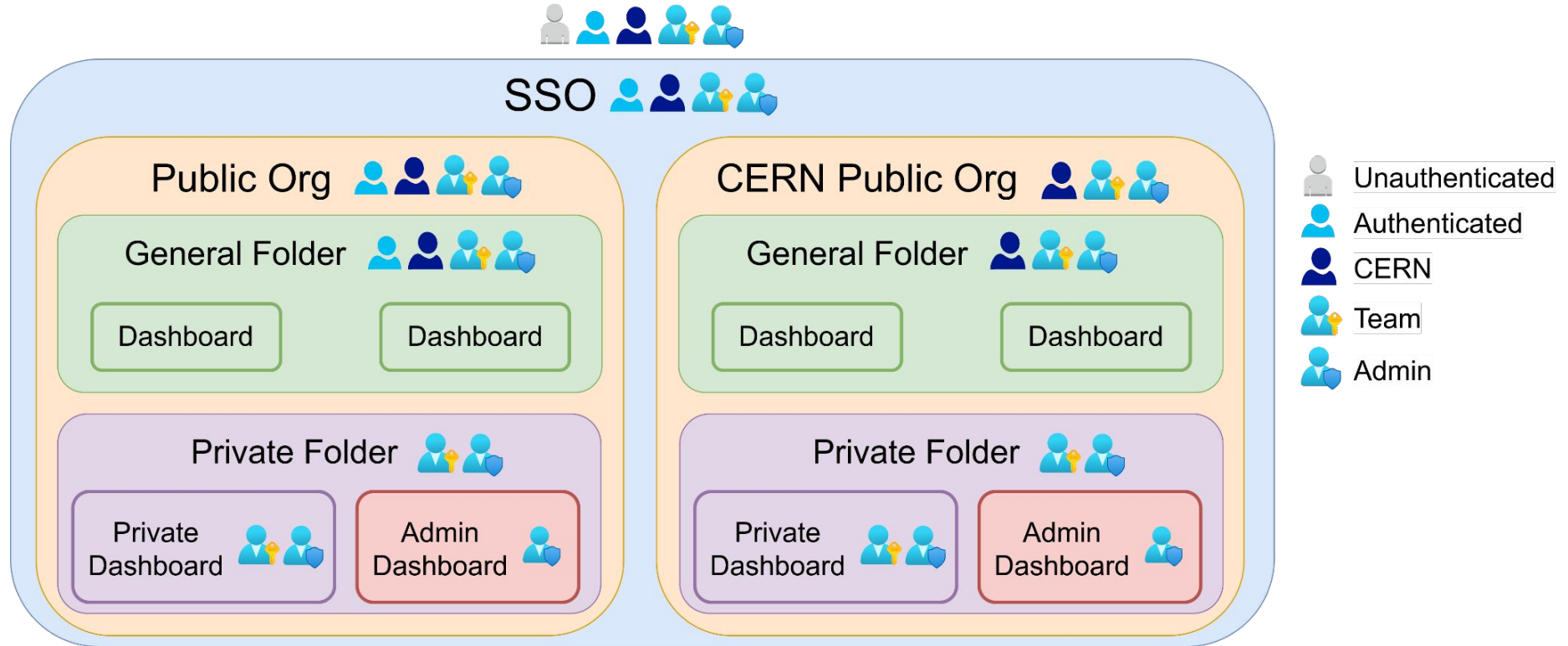
# Layer 3: Folder & Dashboard Permissions

- ❑ Permissions can be refined per Folder
  - Stricter whitelisting
  - Defaults to Org settings
- ❑ Access can be granted to:
  - Roles
    - Viewers
    - Editors
  - Users
  - Teams (User groups)
- ❑ Dashboards inside folders can do the same!
  - Constitutes Layer 4
  - Defaults to Folder settings



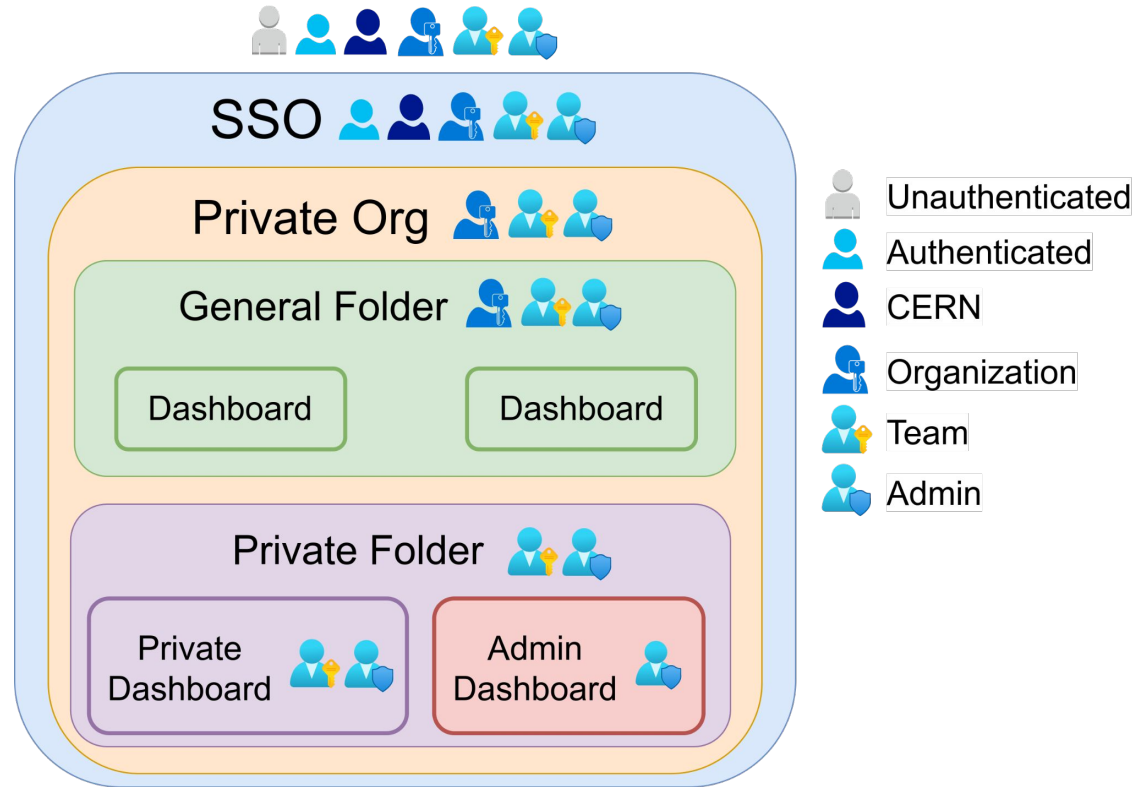


# Access Diagram: Public Orgs



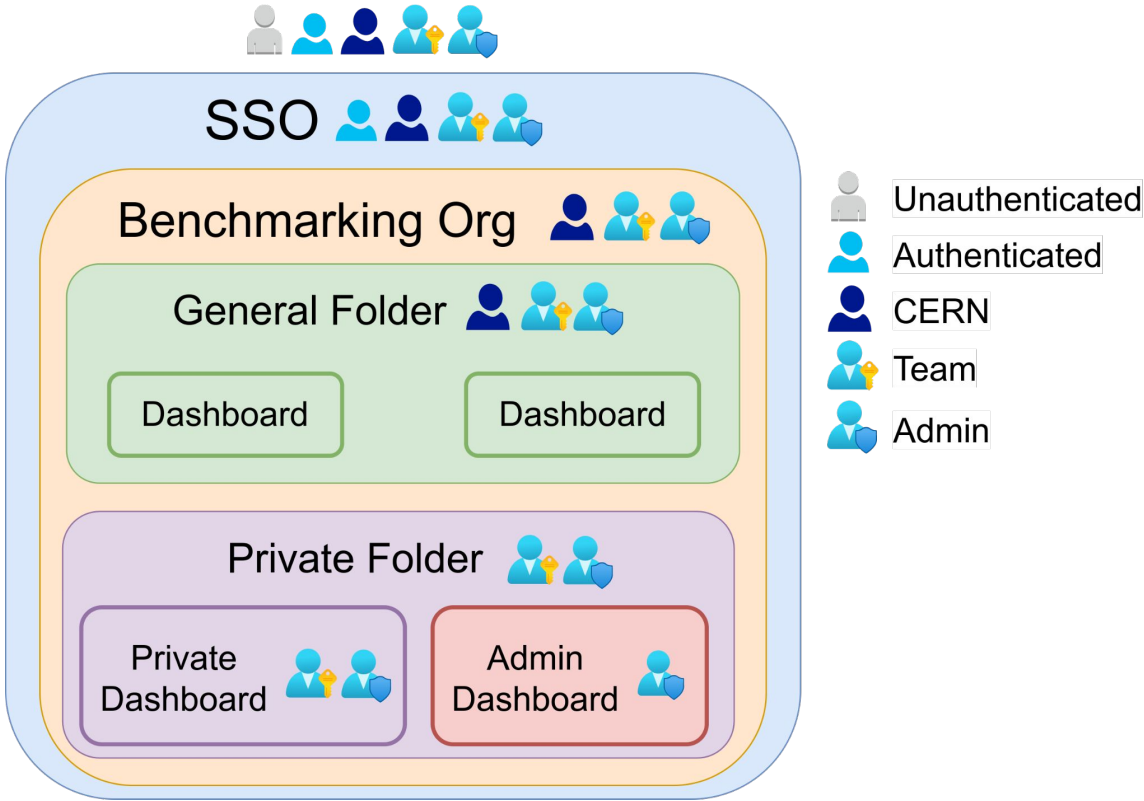
# Access Diagram: Private Orgs

- ❑ Benchmarking is currently a private organization



# Proposal

- ❑ Make Benchmarking a CERN Public Organization



# Q&A