



# mDIS Backend and Backup

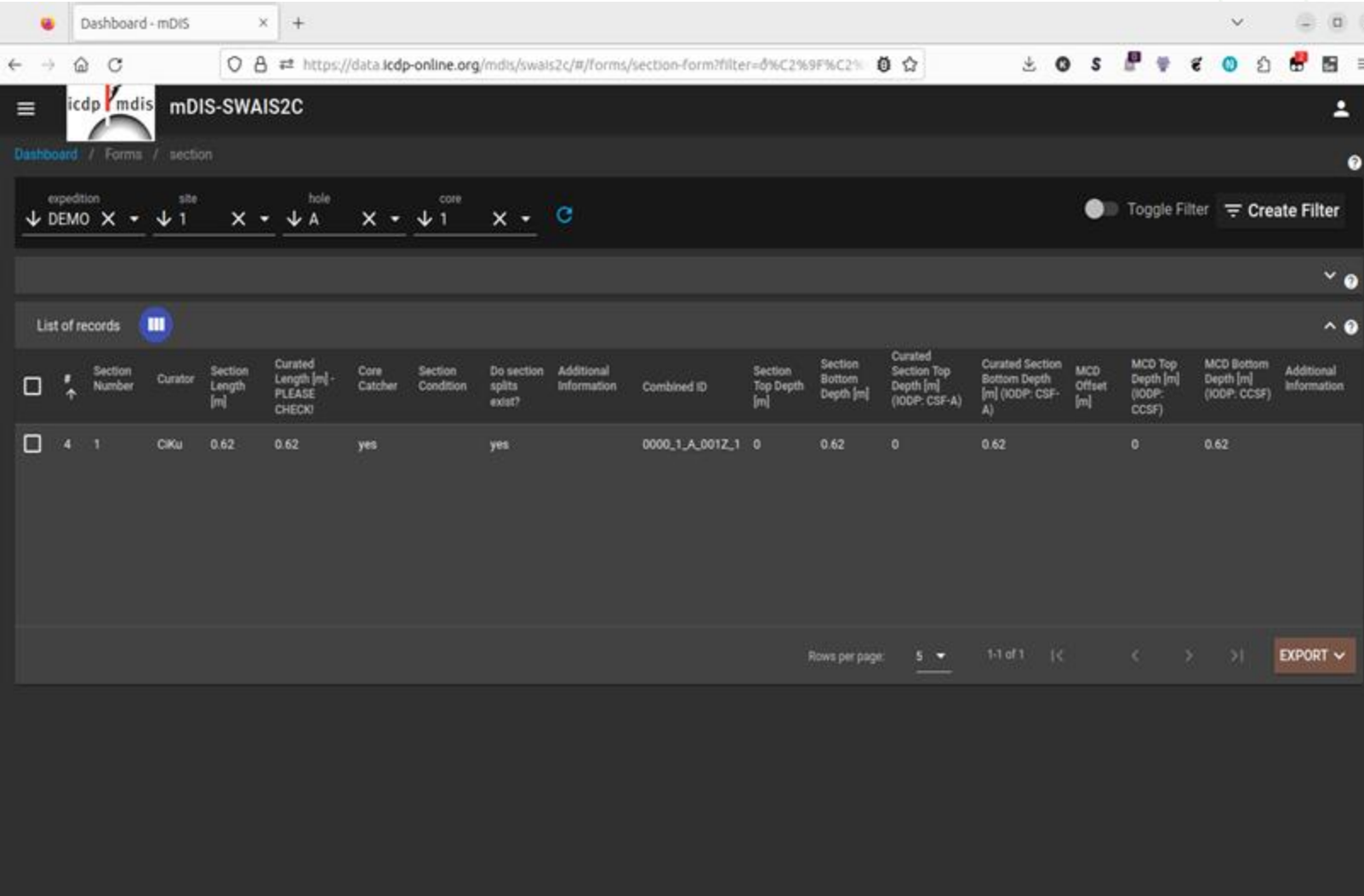
- Knut Behrends

**IR0000032 – ITINERIS, Italian Integrated Environmental Research Infrastructures System**  
(D.D. n. 130/2022 - CUP B53C22002150006) Funded by EU - Next Generation EU PNRR-  
Mission 4 "Education and Research" - Component 2: "From research to business" - Investment  
3.1: "Fund for the realisation of an integrated system of research and innovation infrastructures"



## Agenda

- mDIS vs Legacy DIS
- mDIS Frontend and Backend
- mDIS Modes of installation
- mDIS Backups



The screenshot shows the mDIS web application interface. At the top, there is a navigation bar with the 'icdp mdis' logo and the title 'mDIS-SWAIS2C'. Below this is a breadcrumb trail: 'Dashboard / Forms / section'. A filter bar is visible with dropdown menus for 'expedition' (set to 'DEMO'), 'site' (set to '1'), 'hole' (set to 'A'), and 'core' (set to '1'). There are 'Toggle Filter' and 'Create Filter' buttons. Below the filter bar is a 'List of records' section with a table of data. The table has 15 columns: Section Number, Curator, Section Length [m], Curated Length [m] - PLEASE CHECK!, Core Catcher, Section Condition, Do section splits exist?, Additional Information, Combined ID, Section Top Depth [m], Section Bottom Depth [m], Curated Section Top Depth [m] (100P: CSF-A), Curated Section Bottom Depth [m] (100P: CSF-A), MCD Offset [m], MCD Top Depth [m] (100P: CCSF), MCD Bottom Depth [m] (100P: CCSF), and Additional Information. A single record is displayed with the following values: Section Number: 4, Curator: CIKu, Section Length: 0.62, Curated Length: 0.62, Core Catcher: yes, Section Condition: yes, Combined ID: 0000\_1\_A\_001Z\_1, Section Top Depth: 0, Section Bottom Depth: 0.62, Curated Section Top Depth: 0, Curated Section Bottom Depth: 0.62, MCD Offset: 0, MCD Top Depth: 0, MCD Bottom Depth: 0.62. At the bottom of the table, there is a 'Rows per page' dropdown set to 5, a '1-1 of 1' indicator, and an 'EXPORT' button.

Section Number	Curator	Section Length [m]	Curated Length [m] - PLEASE CHECK!	Core Catcher	Section Condition	Do section splits exist?	Additional Information	Combined ID	Section Top Depth [m]	Section Bottom Depth [m]	Curated Section Top Depth [m] (100P: CSF-A)	Curated Section Bottom Depth [m] (100P: CSF-A)	MCD Offset [m]	MCD Top Depth [m] (100P: CCSF)	MCD Bottom Depth [m] (100P: CCSF)	Additional Information
4	CIKu	0.62	0.62	yes		yes		0000_1_A_001Z_1	0	0.62	0	0.62	0	0	0.62	

DIS: data input form for sites, events and cores of expedition v: GEOMAR 1.04

STATIONS/SITES | EVENTS/GEAR | CORES | **SECTIONS**

Expedition: **SO99** Site: **99** Gear: **PC**

Section: **7** Half: **A** Sec. Length: **95** Curator: \_\_\_\_\_

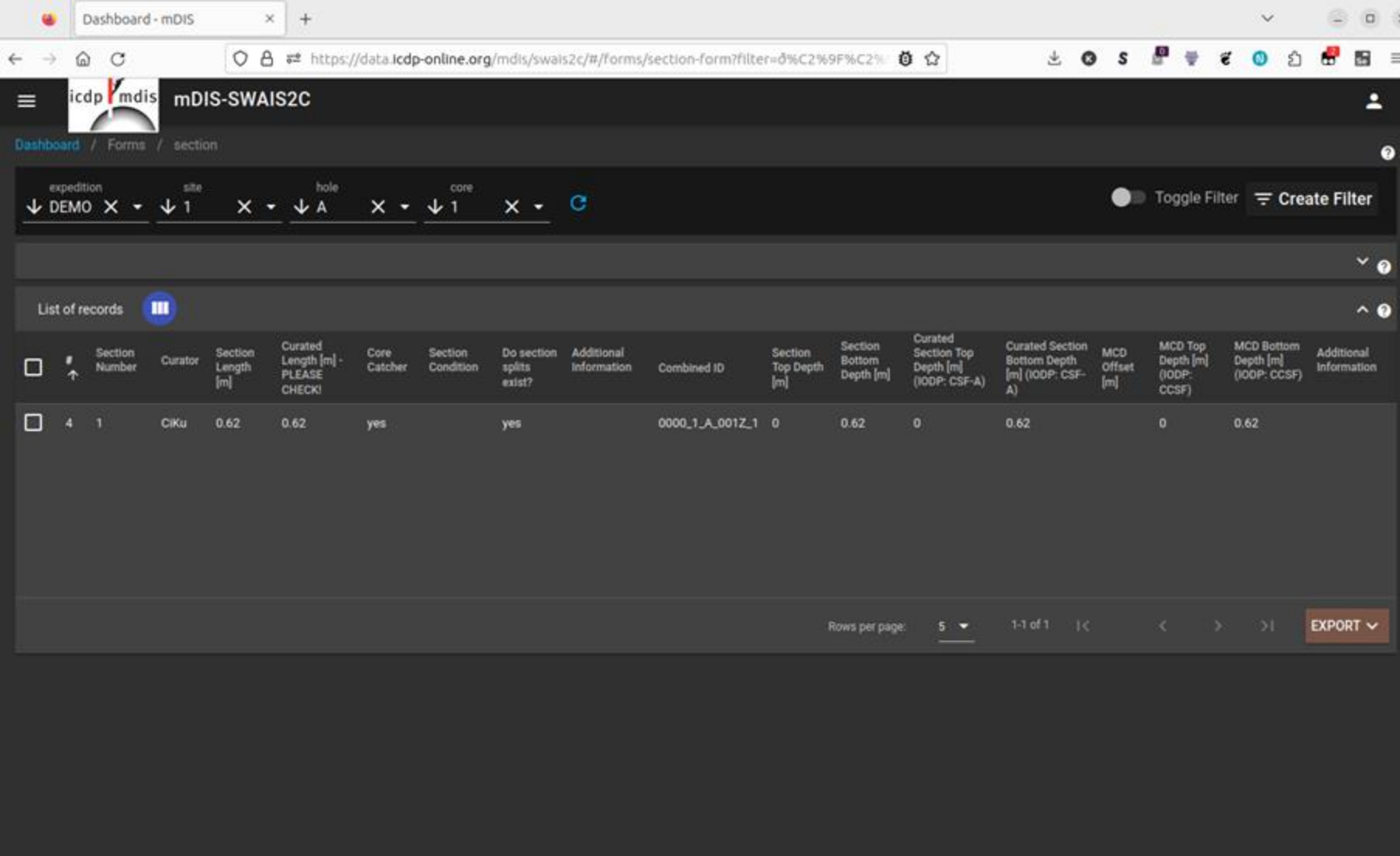
Top Depth(cm): **0** Bottom Depth(cm): **95** Top MCD: **0** IGSN: **KIEL0080G59VN01**

Remarks: QR.CODE: 005469; very thin sliver of core half

SEC.	HALF	T-DEPTH	B-DEPTH	CURATOR	REMARKS
1	A	497	592		QR.CODE: 005474;
2	A	397	497		QR.CODE: 005473;
3	A	297	397		QR.CODE: 005472;
4	A	197	297		QR.CODE: 005471;
5	A	108	197		QR.CODE: 005470;
7	A	0	95		QR.CODE: 005469; very thin sliver of core half

Data Record [F6] [F9] [F11] [F12] [Del] Form

No.: **6** Co.: **6** Show All Save New Edit Cancel Delete Lists Label Close

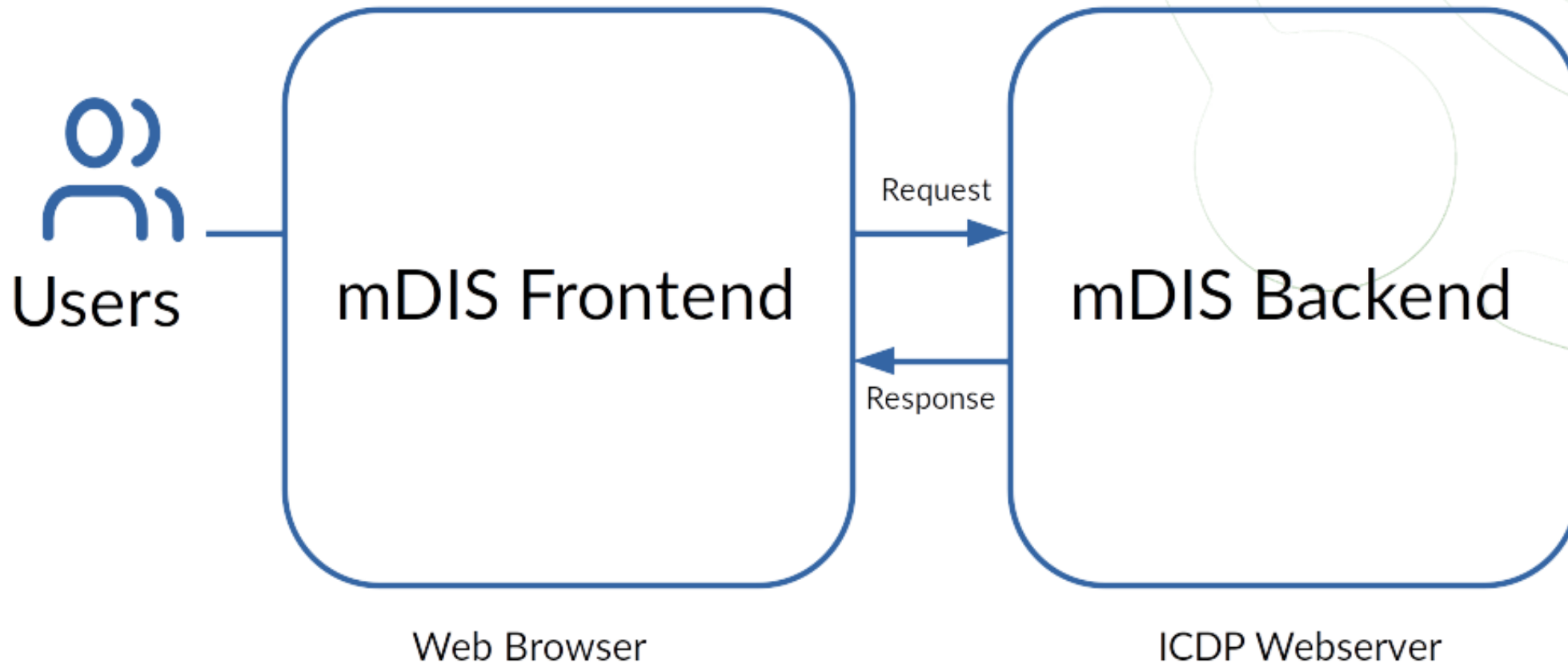


The screenshot shows the mDIS web application interface. At the top, there is a navigation bar with the 'icdp mdis' logo and the text 'mDIS-SWAIS2C'. Below this is a breadcrumb trail: 'Dashboard / Forms / section'. A filter bar contains dropdown menus for 'expedition' (set to 'DEMO'), 'site' (set to '1'), 'hole' (set to 'A'), and 'core' (set to '1'). There are 'Toggle Filter' and 'Create Filter' buttons. Below the filter bar is a 'List of records' section with a table of data. The table has 15 columns: checkboxes, '#', 'Section Number', 'Curator', 'Section Length [m]', 'Curated Length [m] - PLEASE CHECK!', 'Core Catcher', 'Section Condition', 'Do section splits exist?', 'Additional Information', 'Combined ID', 'Section Top Depth [m]', 'Section Bottom Depth [m]', 'Curated Section Top Depth [m] (IODP: CSF-A)', 'Curated Section Bottom Depth [m] (IODP: CSF-A)', 'MCD Offset [m]', 'MCD Top Depth [m] (IODP: CCSF)', 'MCD Bottom Depth [m] (IODP: CCSF)', and 'Additional Information'. One record is visible with values: 4, 1, CiKu, 0.62, 0.62, yes, yes, 0000\_1\_A\_001Z\_1, 0, 0.62, 0, 0.62, 0, 0.62. At the bottom right, there is a pagination control showing 'Rows per page: 5' and '1-1 of 1', along with an 'EXPORT' button.

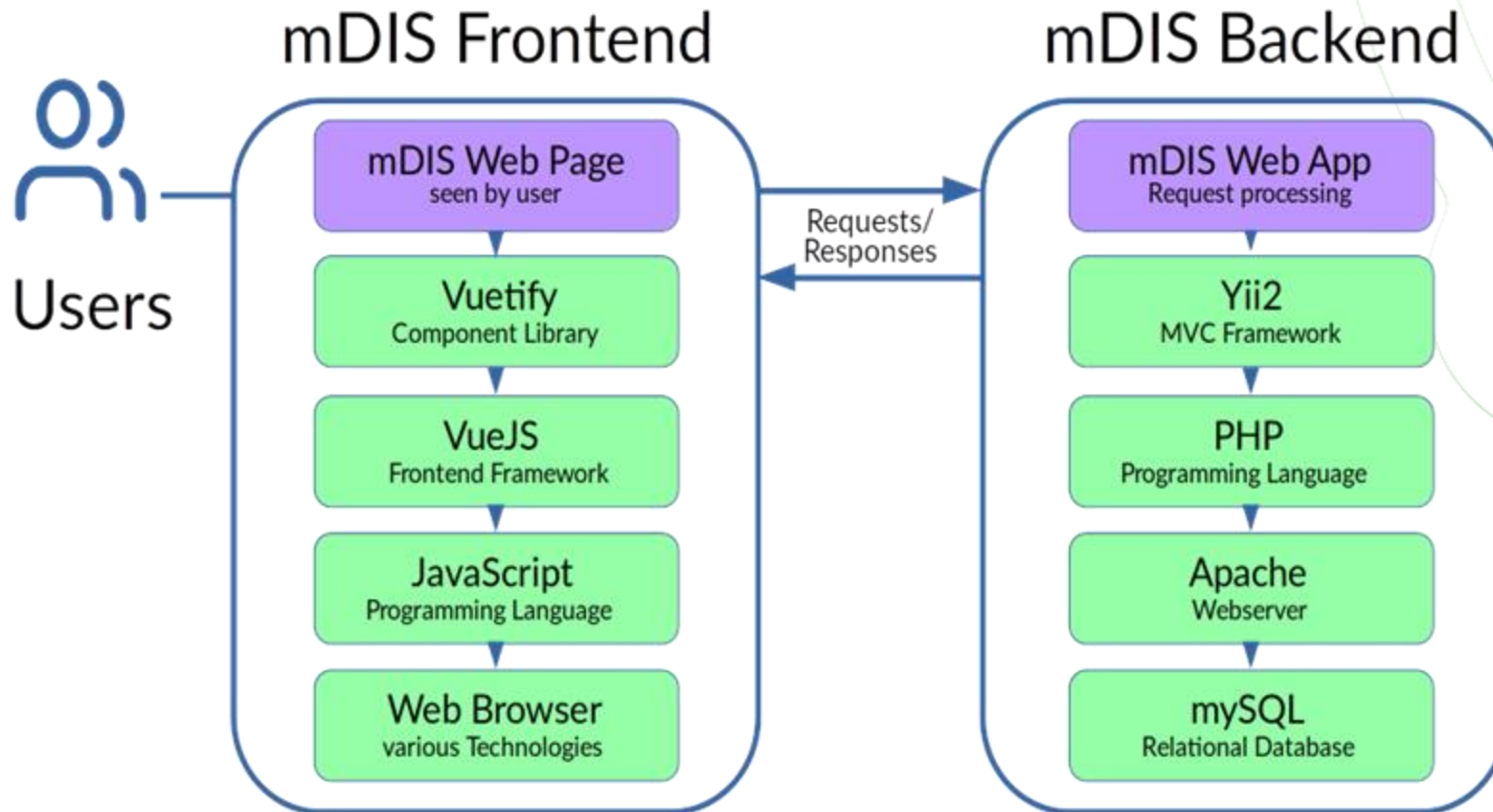
<input type="checkbox"/>	#	Section Number	Curator	Section Length [m]	Curated Length [m] - PLEASE CHECK!	Core Catcher	Section Condition	Do section splits exist?	Additional Information	Combined ID	Section Top Depth [m]	Section Bottom Depth [m]	Curated Section Top Depth [m] (IODP: CSF-A)	Curated Section Bottom Depth [m] (IODP: CSF-A)	MCD Offset [m]	MCD Top Depth [m] (IODP: CCSF)	MCD Bottom Depth [m] (IODP: CCSF)	Additional Information
<input type="checkbox"/>	4	1	CiKu	0.62	0.62	yes		yes		0000_1_A_001Z_1	0	0.62	0	0.62	0	0.62		

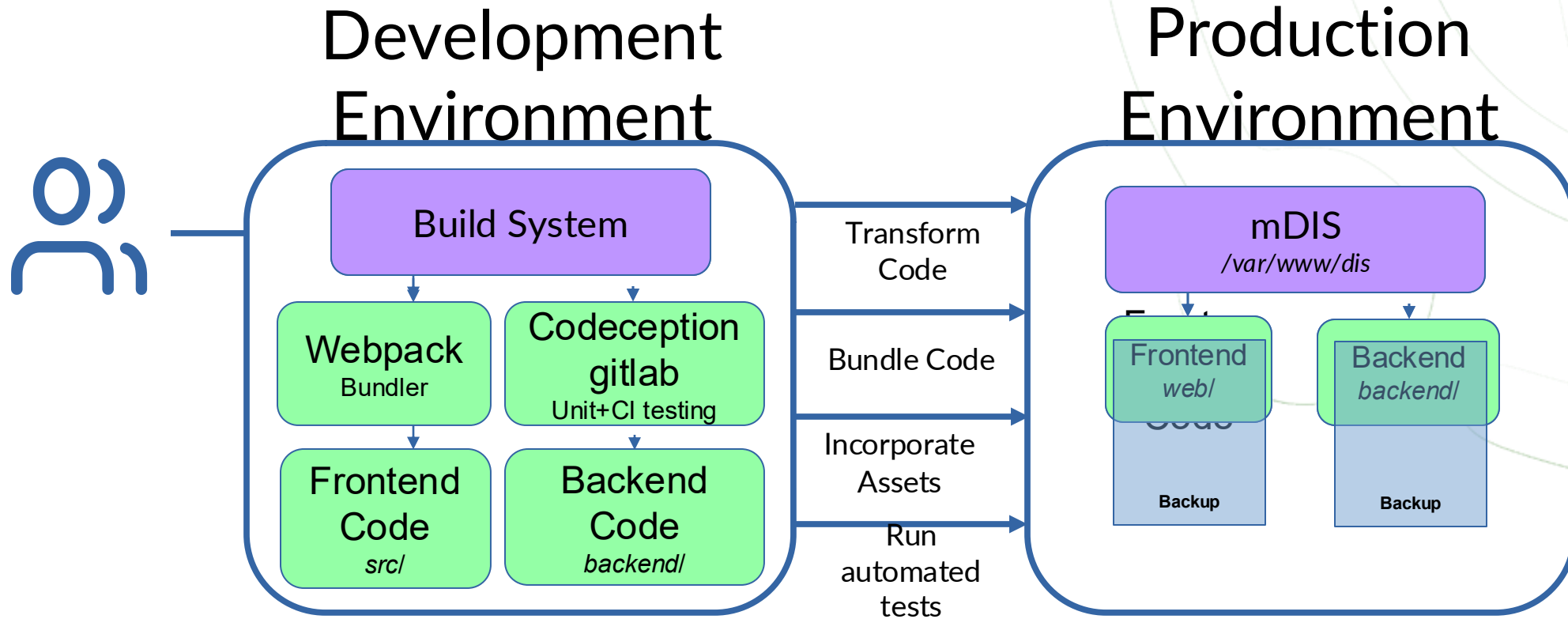
# End User View

## ICDP mDIS - WebApp






# mDIS Client-Server Architecture

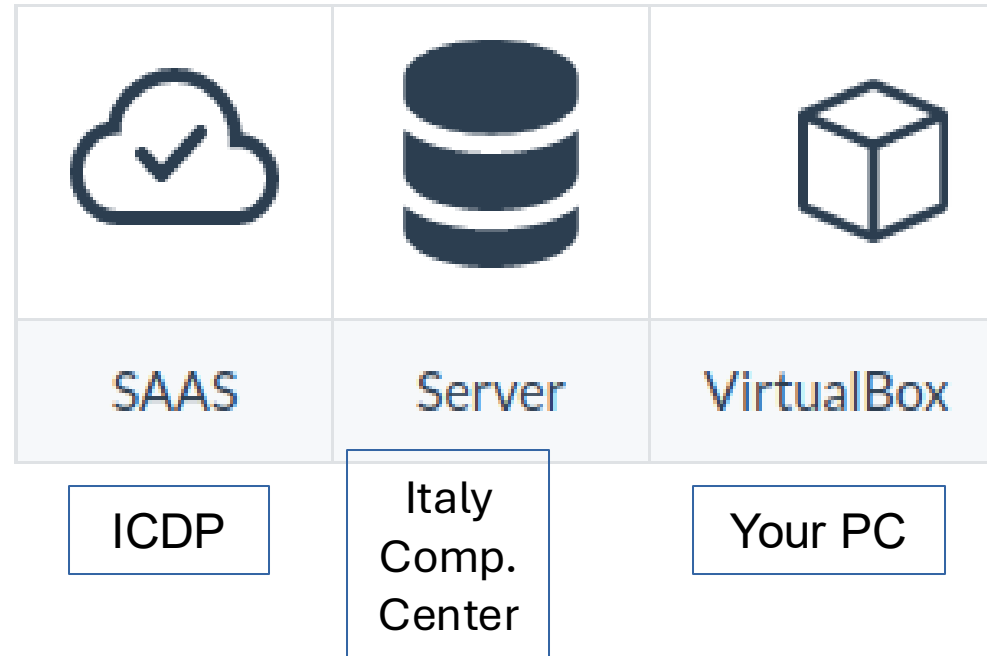




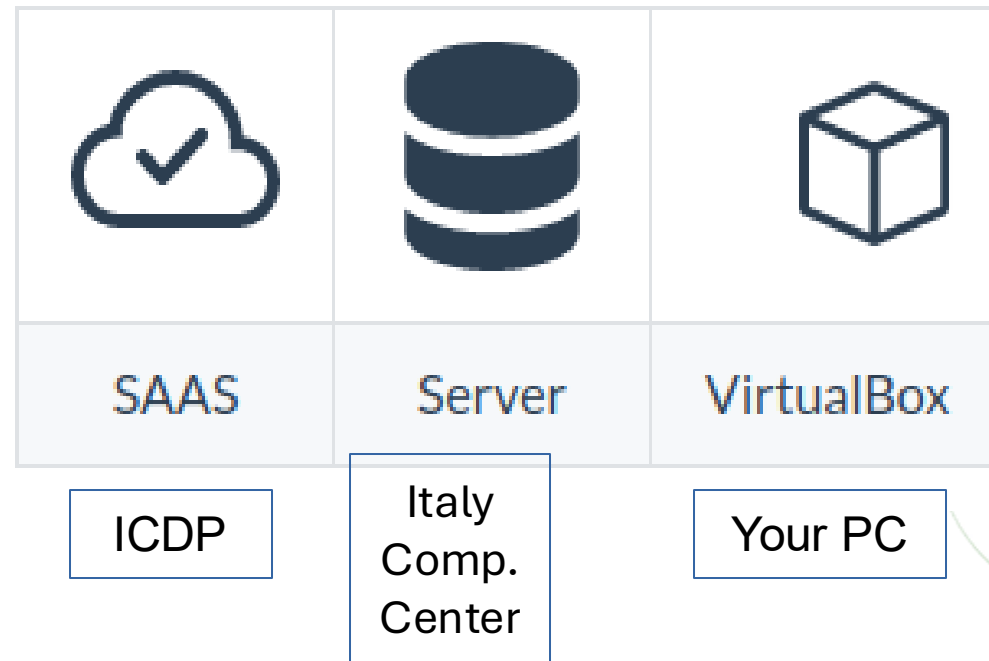
# MDIS modes of Installation

		
SAAS	Server	VirtualBox

# MDIS modes of Installation

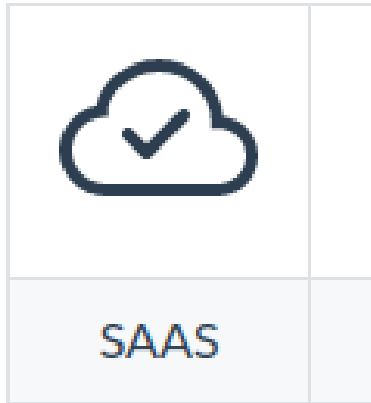


# MDIS modes of Installation



- SAAS: software-as-a-service: no installation required, hosting by ICDP
- Server: installation and hosting in your organization's network, or cloud
- VirtualBox installation: "completely offline" mode of operation (e.g., for field work) on Intel PCs

# m-DIS SAAS mode



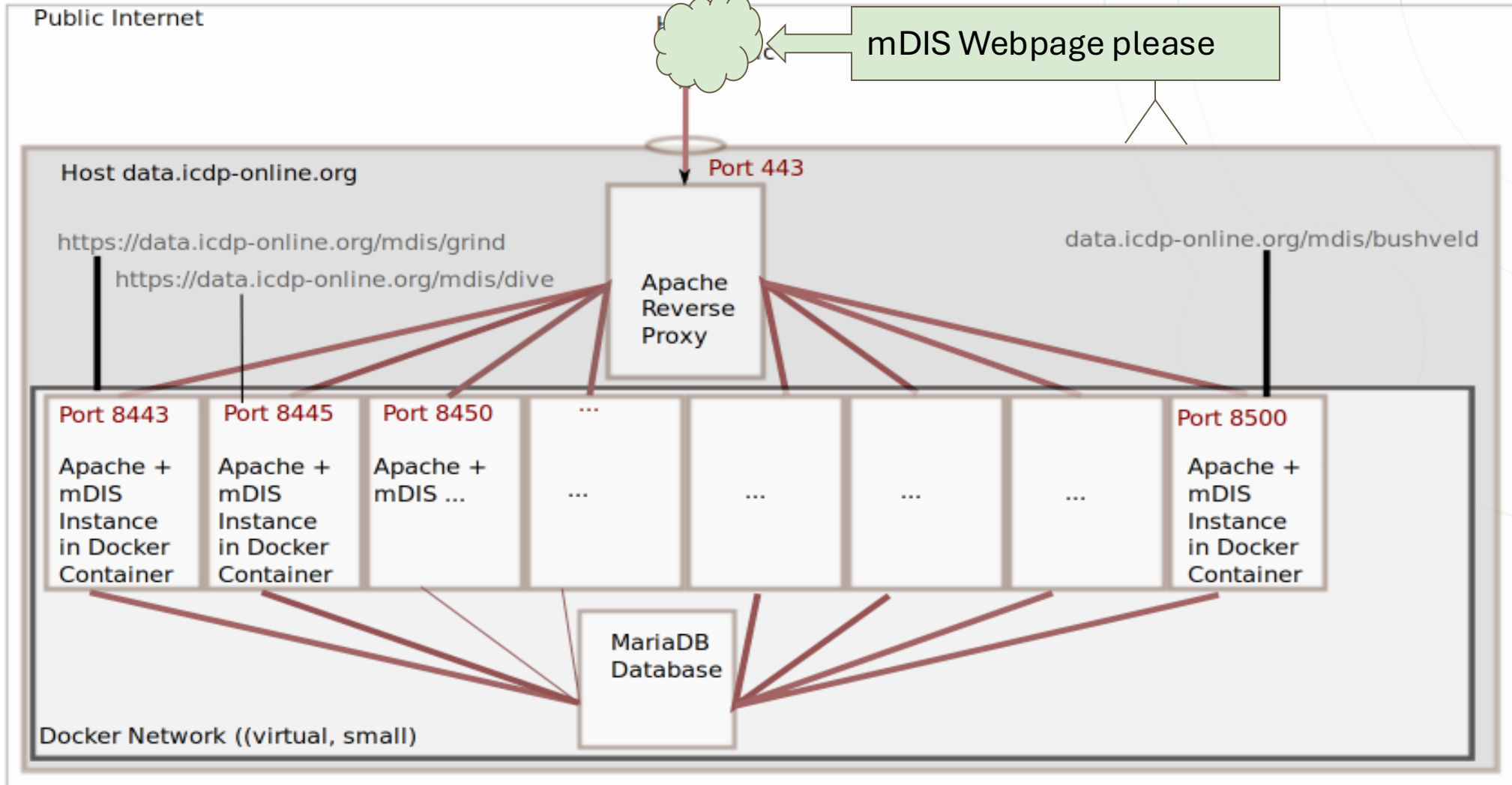
ICDP

← → 🏠 ↻ <https://data.icdp-online.org/mdis/>

mDIS - Instance  
(click on name)

01	mDIS-Demo (v3 instance, basic training playground)
02	mDIS-demo23 (v3 instance, advanced training playground)
03	mDIS-samp23 (v3 instance, 'Medusa clone')
04	mdis-GRIND
05	mdis-FAR-DEEP
06	mdis-FAR-DEEP23
07	mdis-JET production instance from 2020
08	mdis-JET21 (test instance with mDIS code from 2021)
09	mdis-generic (towards a more generic mDIS - OLD VERSION)
10	mdis-generic21 (towards a more generic mDIS database schema)
11	mdis-generic22 (mdis v3 test instance)
12	mdis-tadp (v3, icdp TRANS-AMAZON project)
13	mdis Bushveld (BVDP)
14	mdis-DOVE22
15	mdis-hallstatt/H3 (a Lake Drilling Project)
16	mdis-innsbruck (Core Repository)
17	mdis-eger (Eger Graben, DE/CZ)
18	mdis-ubratest (Showcase, for Univ. Bremen Res. All.)
19	mdis-base (ICDP BASE Project)
20	mdis-geofern (GFZ GEOFERN Project)
21	mdis-star (ICDP STAR Project)
22	mdis-dive22 (ICDP DIVE Project, v3 Instance)
23	mdis-swais2c (ICDP SWAIS2C Project)
24	mdis-dseis23 (ICDP DSEIS Project)
25	mdis-bushveld23 (ICDP BVDP Project)
26	mdis-contacts (ICDP internal)
27	mdis-internal3 (mDIS v3, testing)
28	php8.1 basis for mDISv3 (temporary instance)
29	mdis-v3blank (Frontend only: no DB, no data)

# mDIS backend technical details



# MDIS Backup

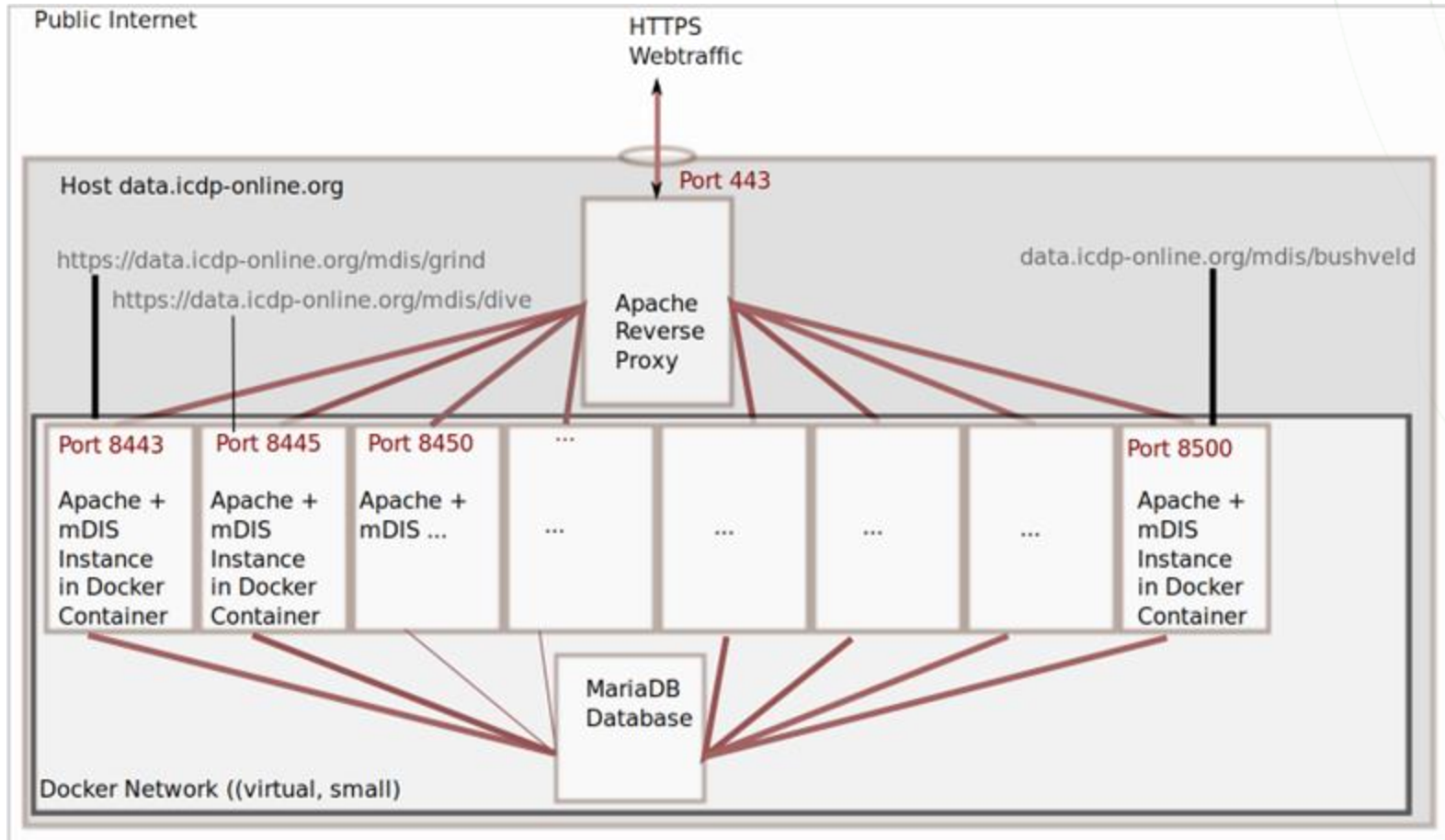
A backup is a copy of data stored separately from the original, used for recovery in case of data loss or corruption.

# MDIS Backup

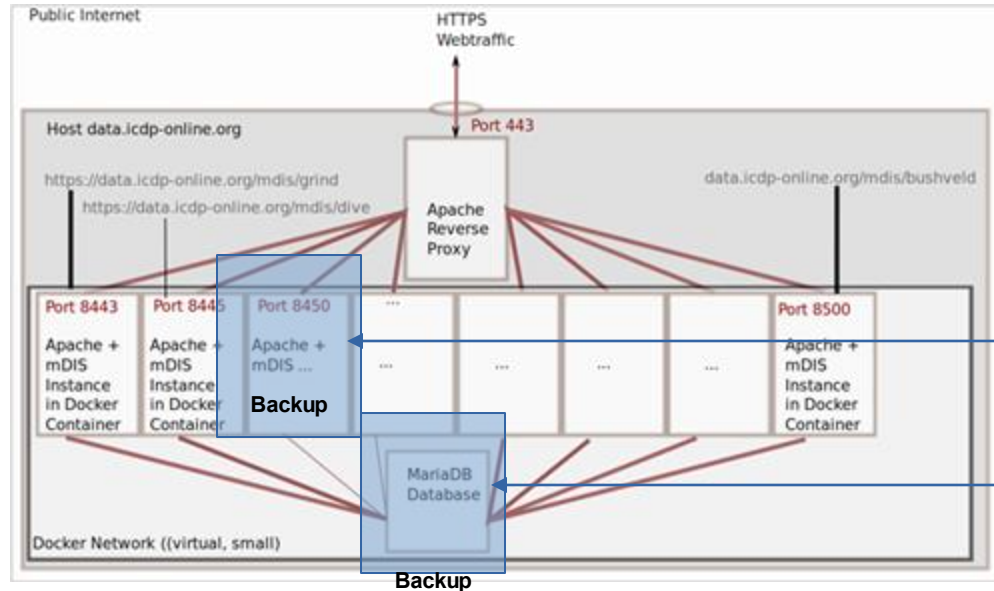
Backup of Frontend- and Backend-  
Component should be made

at the same time,  
independently,  
automatically,  
stored separately

# MDIS Backend Backup



# MDIS Backend Backup



Runs “cron jobs”  
(periodic tasks, here: fetch backups)  
Sysadmin configures these.

Also need to backup uploaded files  
(e.g. core pictures, measmt. files)

# MDIS modes of Installation



VirtualBox

Your PC

## mDIS Virtualbox

- Frontend, Backend both on your laptop
- In a virtualized PC inside the laptop
- Backup: entire PC compressed
  - as .ova file, that's a multi-gigabyte sized file



.... and here we are

THANKS!

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