

# NI4OS Accounting service

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- Purpose of the accounting service
- Types of information being gathered
- Steps for service administrators to connect with the accounting service – walkthrough
- Conclusions

- ❑ Provide information about the usage of services
- ❑ The information is available to the project management team as well as to the service administrators themselves
- ❑ Information only related to NI4OS/EOSC usage of the services is gathered.

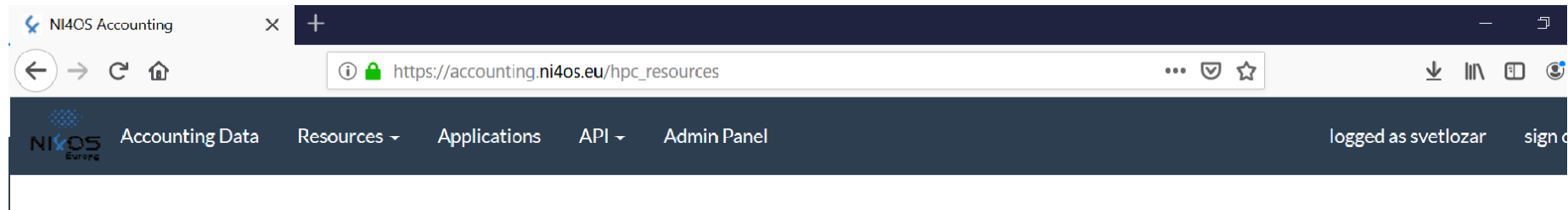
# Types of information being gathered

- ❑ All types of services may provide accounting information
- ❑ It is always possible to provide accounting information about past usage
- ❑ Main types of information:
  - ❑ Job – queue, time used, number of cores, etc. – corresponds to the Job Record Standard.
  - ❑ Storage – amount of storage provided
  - ❑ Virtual machines – types of virtual machines provided
  - ❑ Repositories – number of queries

# Steps for service administrators

- ❑ Registering the service
- ❑ Obtaining access to the accounting service
- ❑ Installing scripts
- ❑ Option to use APIs
- ❑ Entering data manually

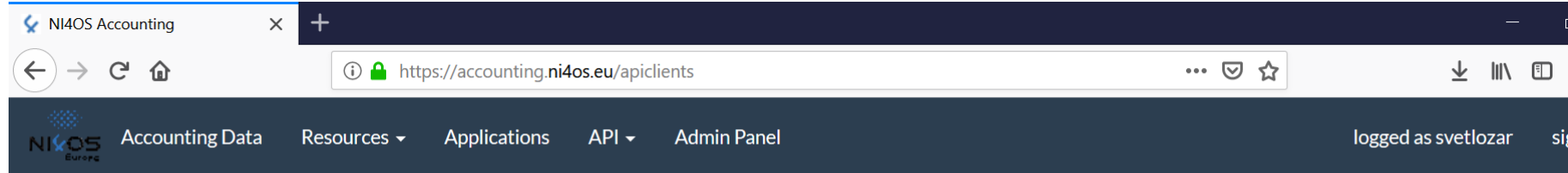
# Resource key



## HPC Resources

Name	Partner	Country	
ARIS	GRNET	Greece	
Cy-Tera	CYI	Cyprus	
Avitohol	IICT-BAS	Bulgaria	<a href="#">config</a>
PARADOX	IPB	Serbia	
NIIFI SC	NIIF	Hungary	
Leo	NIIF	Hungary	
InfraGRID	UVT	Romania	
ICAM BlueGene/P	UVT	Romania	
UPT-HPC	UPT	Albania	
MK-03-FINKI	UKIM	Macedonia	
Armcluster	IIAP-NAS-RA	Armenia	

# Clients installation instructions



## API Clients

### Client for HPC/Grid accounting logs from torque/moab systems

(Use this client if you want to submit all data to the accounting system without filtering)

#### Installation:

1. Download the client: [pbs\\_client\\_1.0.zip](#) or copy the wget command below:  

```
wget --header="token: A4SHD6a6O5t1p5tsXDdUfKZceTaZH9KN" https://accounting.ni4os.eu/api/pbs_client -O pbs_client_1.0.zip
```
2. `tar -xzf pbs_client_1.0.zip`
3. `cd pbs_client_1.0`
4. `sudo bash install.sh`
5. You will be asked for client configuration parameters and resource key, use the resource key that is shown upon click of the resource type -> config button.

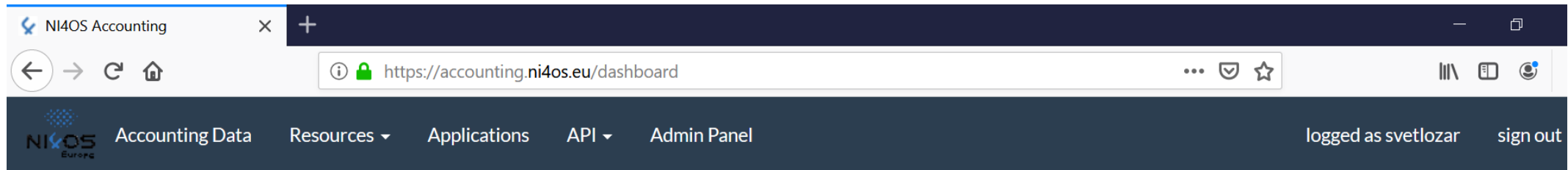
### Client for HPC/Grid accounting logs from SLURM systems

(Use this client if you want to submit all data to the accounting system without filtering)

#### Installation:

1. Download the client: [slurm\\_client\\_1.0.tar.gz](#)
2. Extract `slurm_client_1.0.tar.gz` in the `slurm job_completions` directory
3. Edit your resource key in the config file

# HPC usage data



## NI4OS Accounting Data

Compute Data   Cloud Data   Storage Data

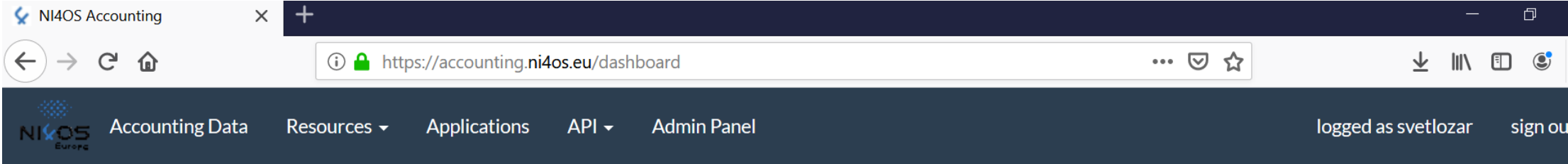
Data type:

Period: from  to

Table: rows  columns



# Storage usage data



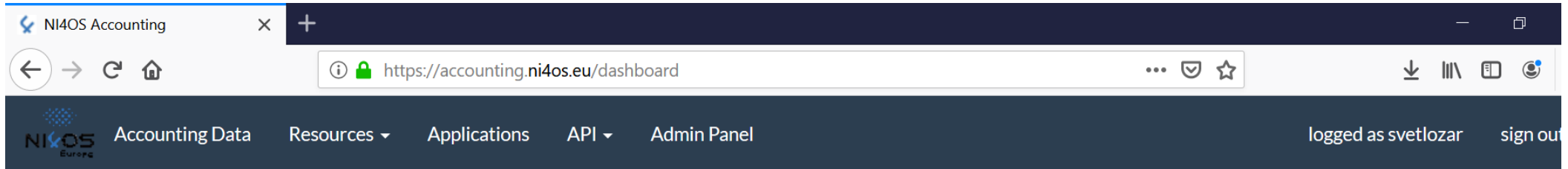
## NI4OS Accounting Data

- Compute Data
- Cloud Data
- Storage Data

Period from  to

Table rows  columns

# Cloud usage data



## NI4OS Accounting Data

Compute Data   **Cloud Data**   Storage Data

Data type:

Period: from  to

Table: rows  columns

# Conclusions

- ❑ The connection to the accounting service is not required for initial launch of a service
- ❑ However, it is required for the generic services, therefore their administrators should take the necessary steps to register their service and connect with the accounting service.
- ❑ The manual entering of data can be replaced with invocation of the API
- ❑ Further scripts will be provided to simplify that part.