

# Sheffield Solar System Architecture

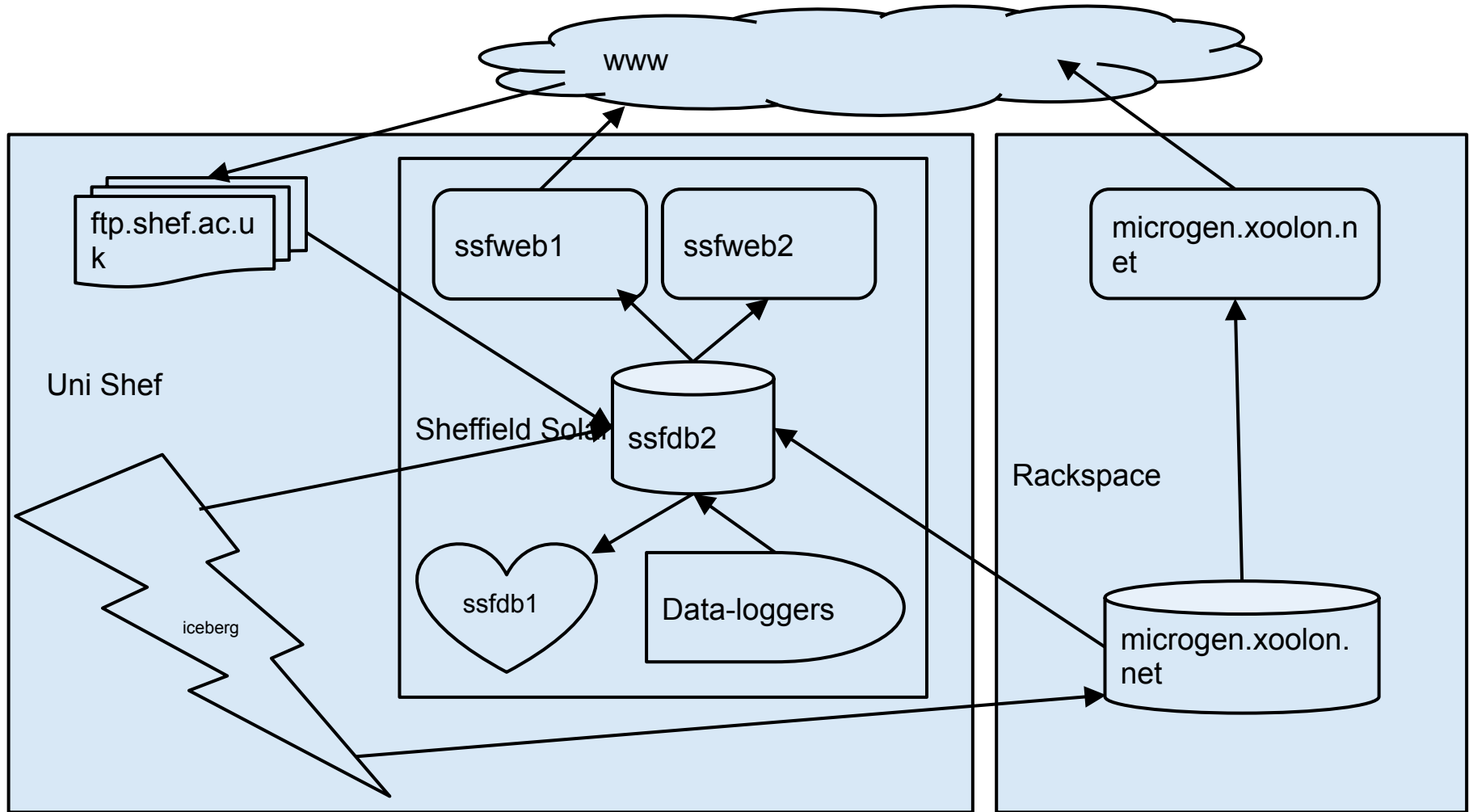
## Services

- Public web-site: web-server + database
- Data analysis for web-site: compute server
- Research data analysis: compute server
- ...

# Sheffield Solar System Architecture

## Requirements

- Data Security
  - Available: replication, snapshots
  - Private: secure server, password management
  - Tamper proof:
- Usability
- Performance
- Cost: use Uni Sheff: compute server and virtual hosts



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## PV Reading Upload

1. [www.microgen...](http://www.microgen...)
2. microgen db: verify
3. ssfdb2 db: backup and analysis

## Data-loggers

1. PVs -> NI data-logger -> ftp-server -> inserter(Python, ssfdb2) -> database
2. Nedap Inverter -> inserter(Java, ssfrpi0) -> db on ssfdb2

# Microgen Website Migration

Web fast moving

WebGUI (Perl) -> Django (Python)

- Front-end

- Django views: functionality
- CSS: look and feel

- Back-end: “business logic”

- Database: MySQL tables

- Data: WebGUI tables -> Python tables