# Virtual Research Environment for Marine Research Community

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#### What?

The SeaDataCloud virtual research environment (VRE) will offer a science gateway to the marine researchers for accessing large volumes of marine data sets, creating new data products, sharing relevant findings with colleagues and publishing findings.

## **Benefits to Marine Research Community**

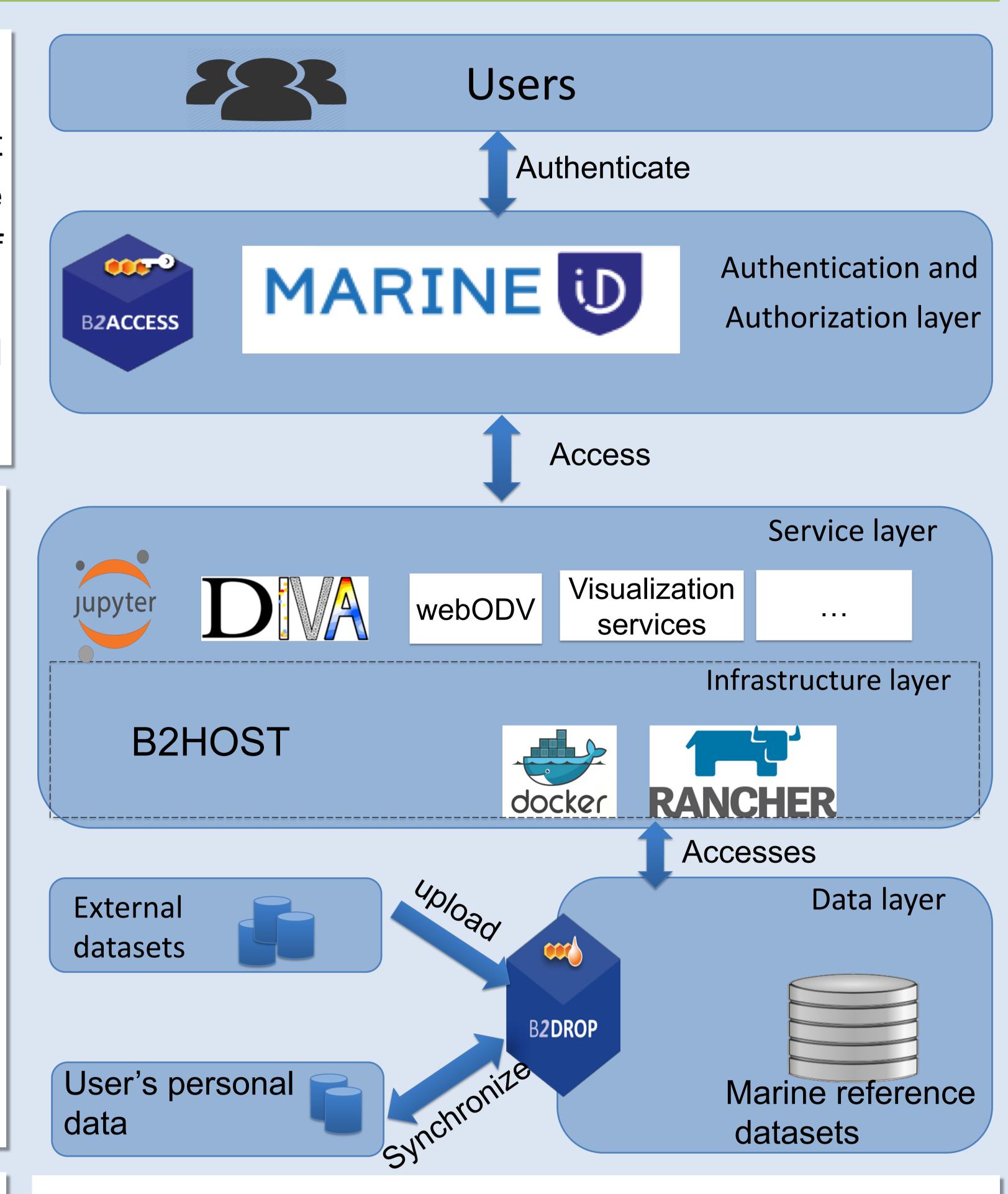
- An online platform to access common marine applications such as DIVA, ODV software and other Marine visualization services
- A data analytics platform for creating new data products
- Enables collaborative research with Marine researchers across the globe
- Facilitates the creation of reproducible workflows that can be shared with fellow researchers

# Integration to B2ACCESS Authentication and Authorization platform

- Enables easy access to marine researchers across Europe
- Facilitates access through user's organization account or ORCID iD

## Integration to B2HOST computing environment

- Offers on-demand computing and data access to researchers across Europe
- Uses container platforms to scale applications to meet user demands



### Integration to B2DROP data exchange service

- Enables storing and exchanging data securely with fellow researchers
- Ensures automatic synchronization of files produced in the VRE to user's local desktop

#### References

- EUDAT Service Suite <a href="https://eudat.eu/catalogue">https://eudat.eu/catalogue</a>
- EUDAT B2HOST <a href="https://eudat.eu/services/userdoc/b2host">https://eudat.eu/services/userdoc/b2host</a>
- Marine ID <a href="https://www.marine-id.org/">https://www.marine-id.org/</a>
- Jupyter <a href="http://jupyter.org/">http://jupyter.org/</a>
- DIVA <a href="https://github.com/gher-ulg/DIVA">https://github.com/gher-ulg/DIVA</a>
- webODV https://webodv.awi.de/
- Docker <a href="https://www.docker.com/">https://www.docker.com/</a>
- Rancher <a href="https://rancher.com/">https://rancher.com/</a>

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