

Al Tools in action

Entrainez et déployez un modèle de ML avec les produits AI d'OVHcloud *AI Notebooks, AI Training & AI Deploy*

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About OVHcloud

- French & European leader in Cloud
- Data privacy and sovereignty
- Not subject to the Cloud Act
- HDS certification (ISO 27001 norm)
- **Collaboration** with public sector





Trust



Working Together



Passion



Disruption



Responsibility



Our values



SYDNEY (SYD)

₩ ×1

OVHcloud WARSAW FRANKFURT STRASBOURG HILLSBORD VINT HILL ₩ ×1



Hosted Private Cloud

Public Cloud ==

Web Cloud

🗔 Télécom

AI Notebooks

AI Training

AI Deploy





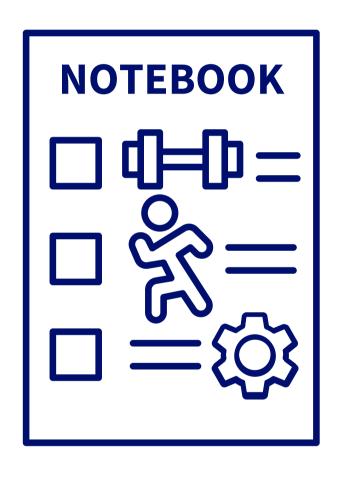
SINGAPORE (SSP)

₩×1





OVHcloud AI Solutions



Al Notebooks



Al Training

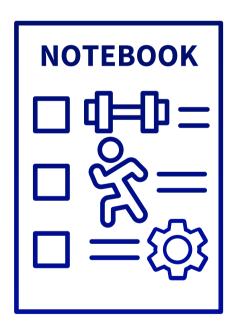


Al Deploy



Al Notebooks

JupyterLab / Visual Studio Code as a service



1

Start preconfigured JupyterLab or VS Code notebooks

2

Notebook launched in the cloud with GPU (or CPU)

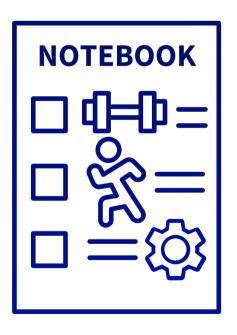
3

Customer is billed per minute used



Al Notebooks

Machine Learning packages



4

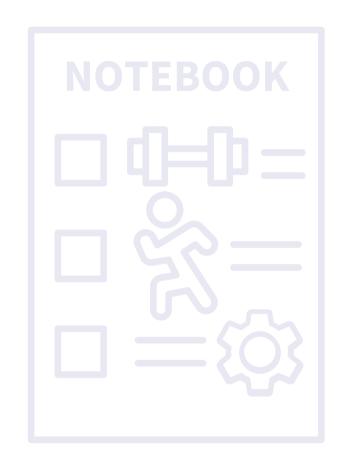
ML frameworks available: PyTorch, TensorFlow, Transformers, ...

5

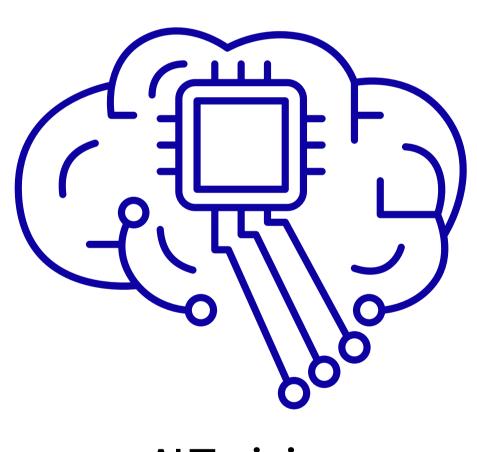
Persist user workspace among runs to keep track of custom installed packages



OVHcloud AI Solutions



Al Notebooks



Al Training

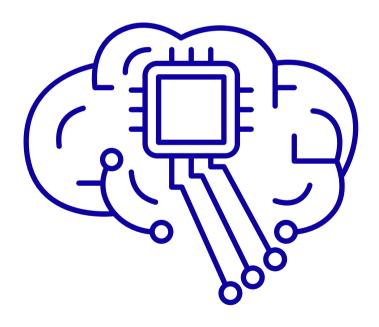


Al Deploy



Al Training

Container As A Service Platform



1

Customer provides his docker container through docker registry

2

We run his container in the cloud over GPU (or CPU)

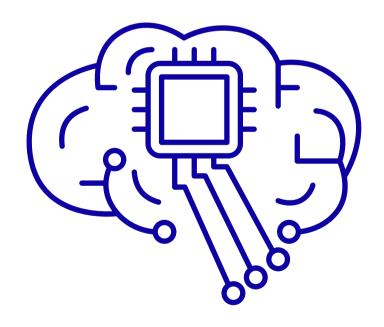
3

Customer is billed per minute used



Al Training

Targeted use cases
Machine Learning pipelines



4

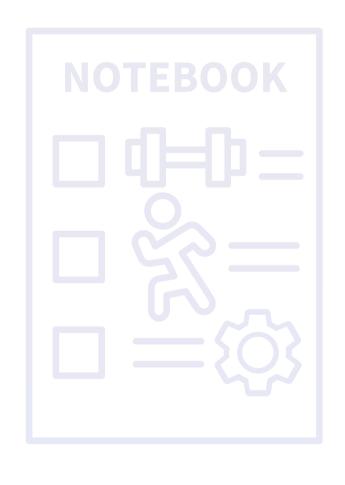
Preprocessing / postprocessing tasks

5

Training of Machine Learning models



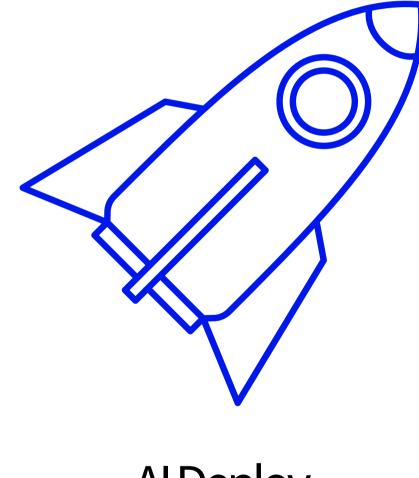
OVHcloud AI Solutions



Al Notebooks



Al Training

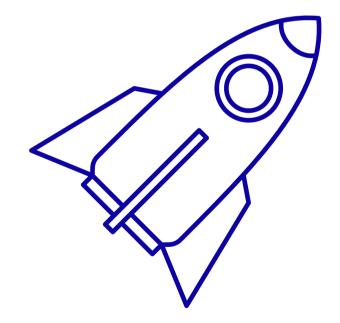


Al Deploy



Al Deploy

Container As A Service Platform



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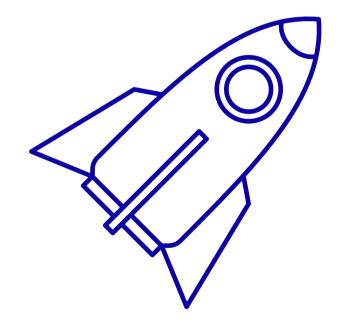
3

Customer is billed per minute used



Al Deploy

Targeted use cases Model inference



4

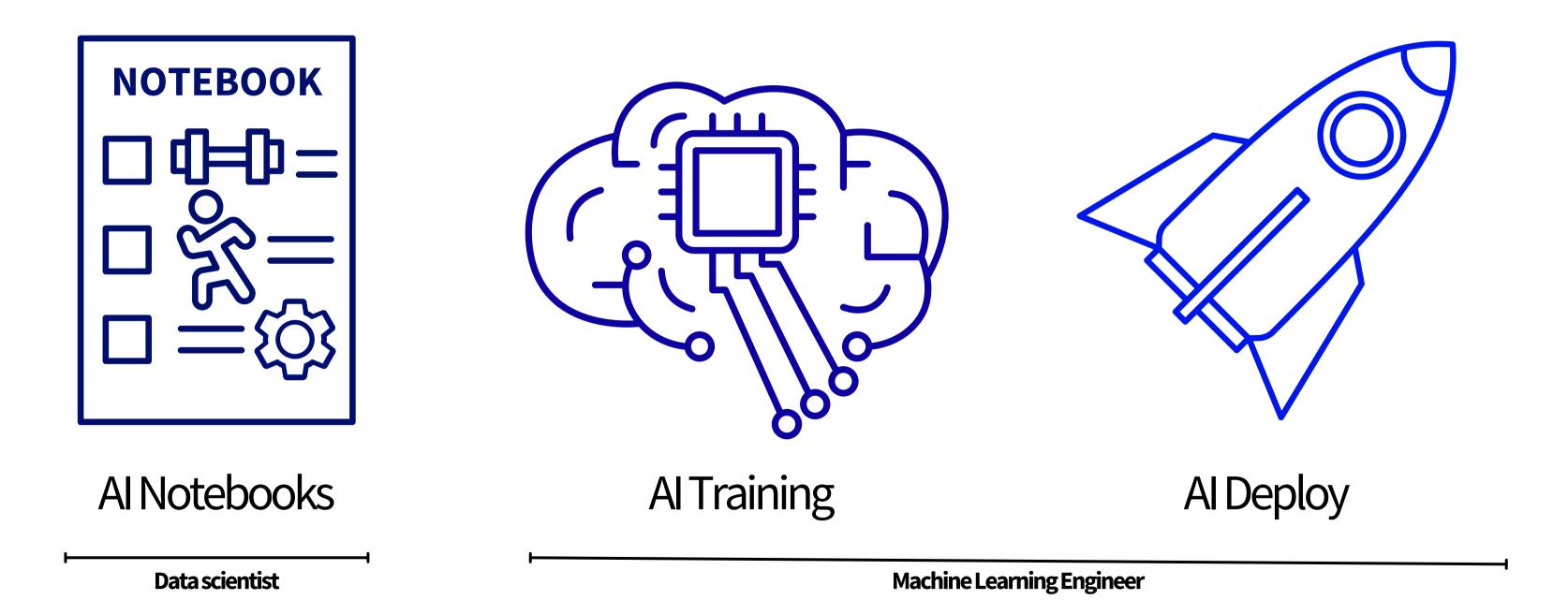
Industrial way of deploying stateless API(s)

5

Scalable on the fly

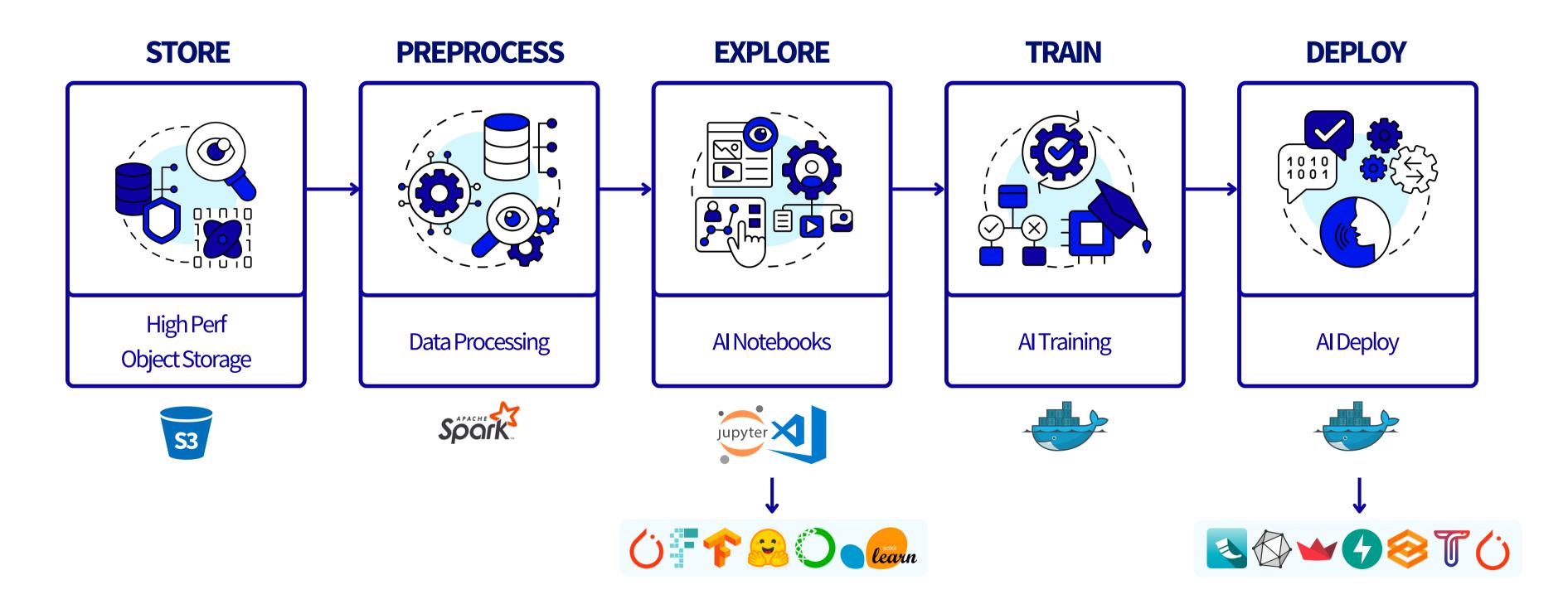


OVHcloud AI Solutions



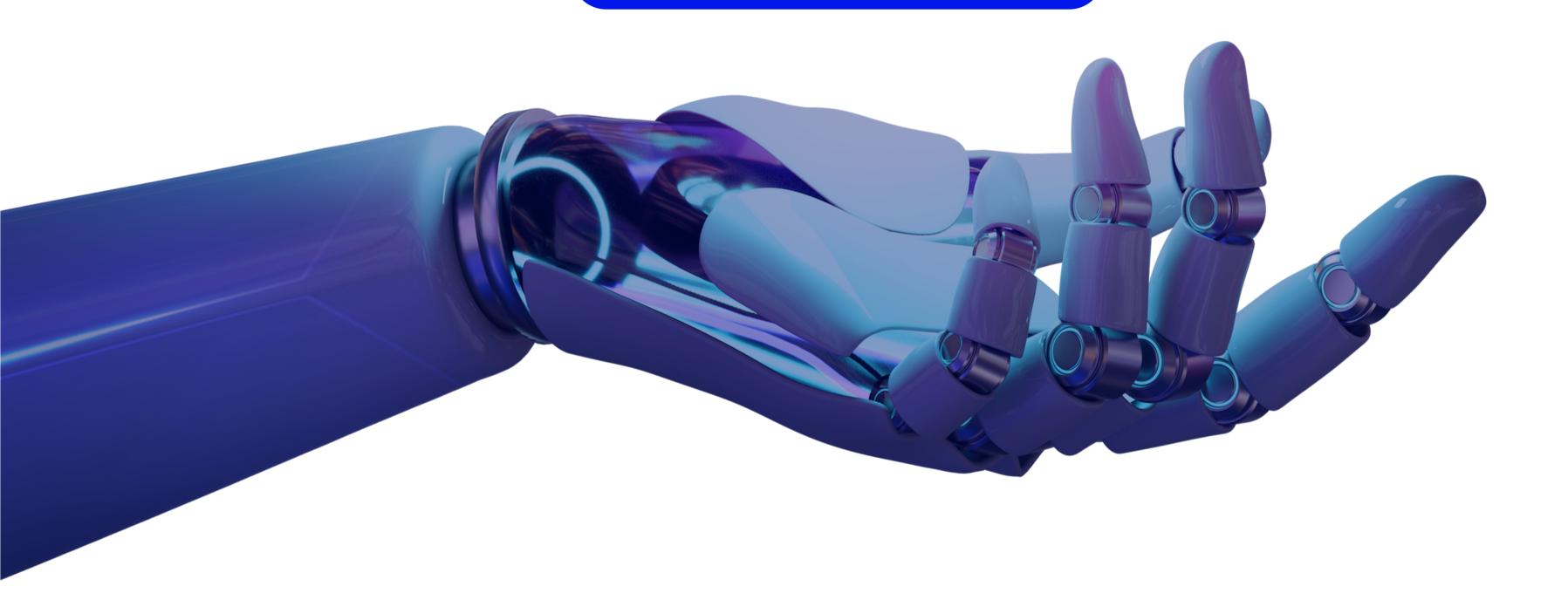


Global AI Workflow





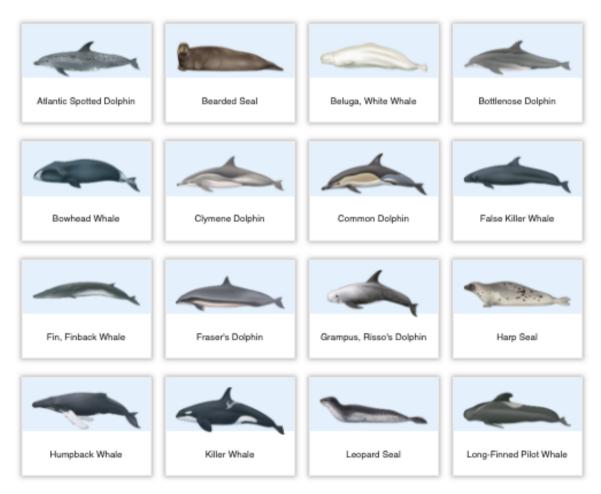
Demo time



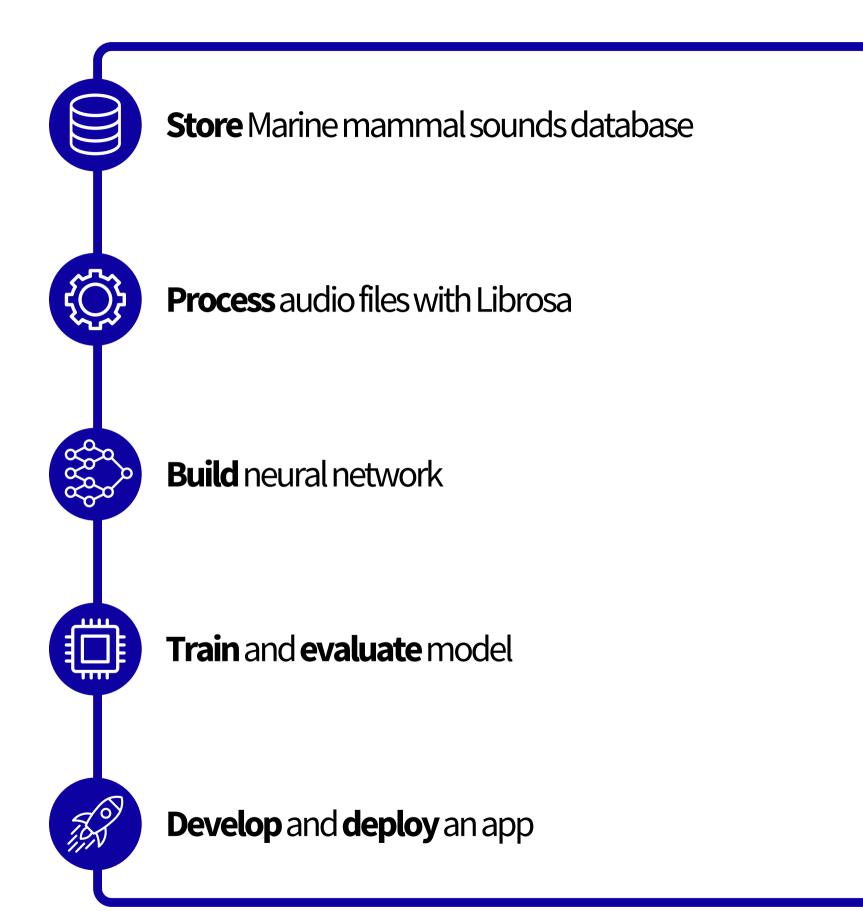


Audio use case

Marine mammal sounds classification

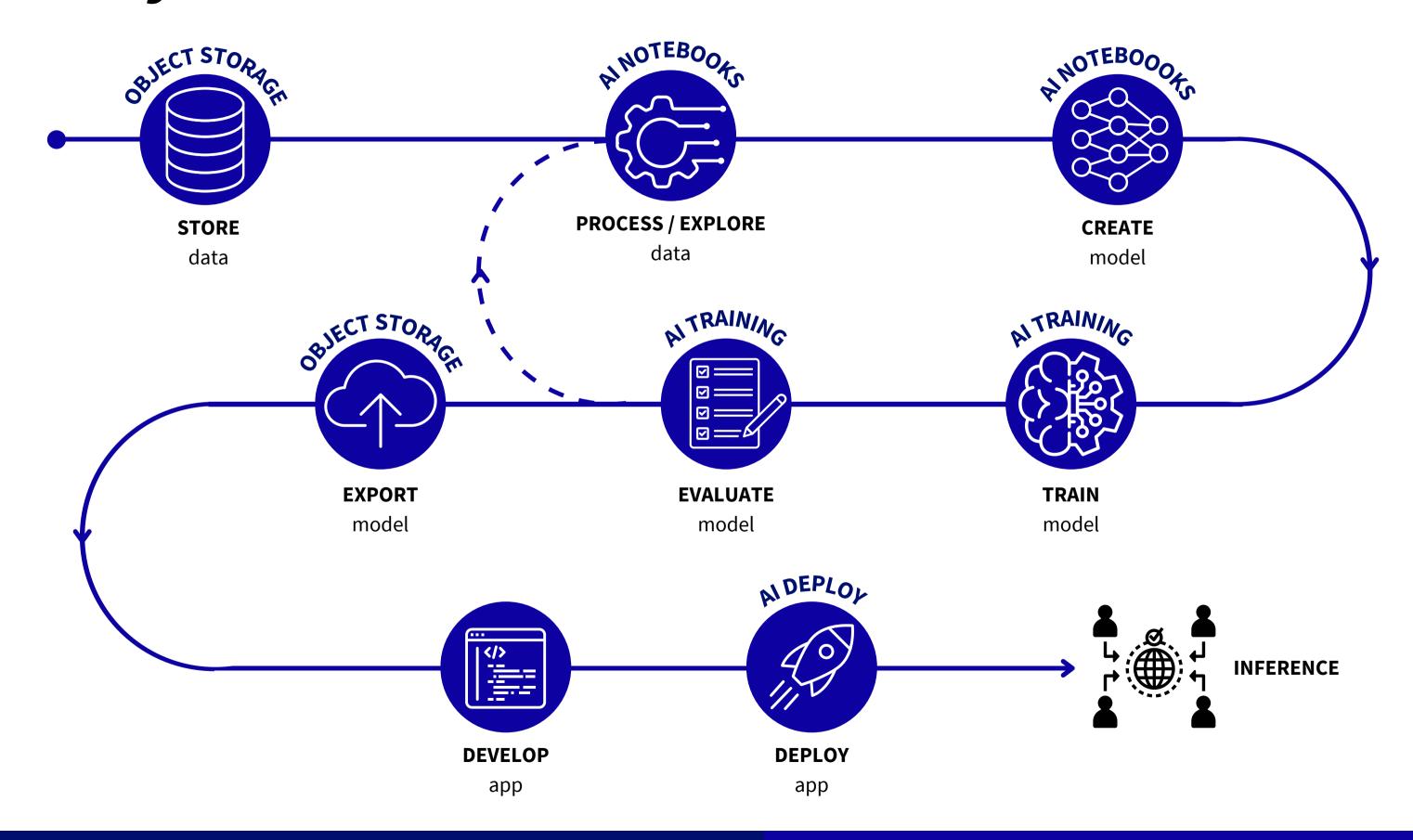


https://whoicf2.whoi.edu/science/B/whalesounds/



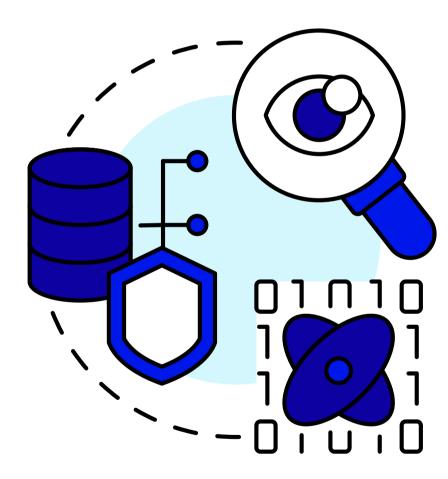


Journey to the center of AI Solutions

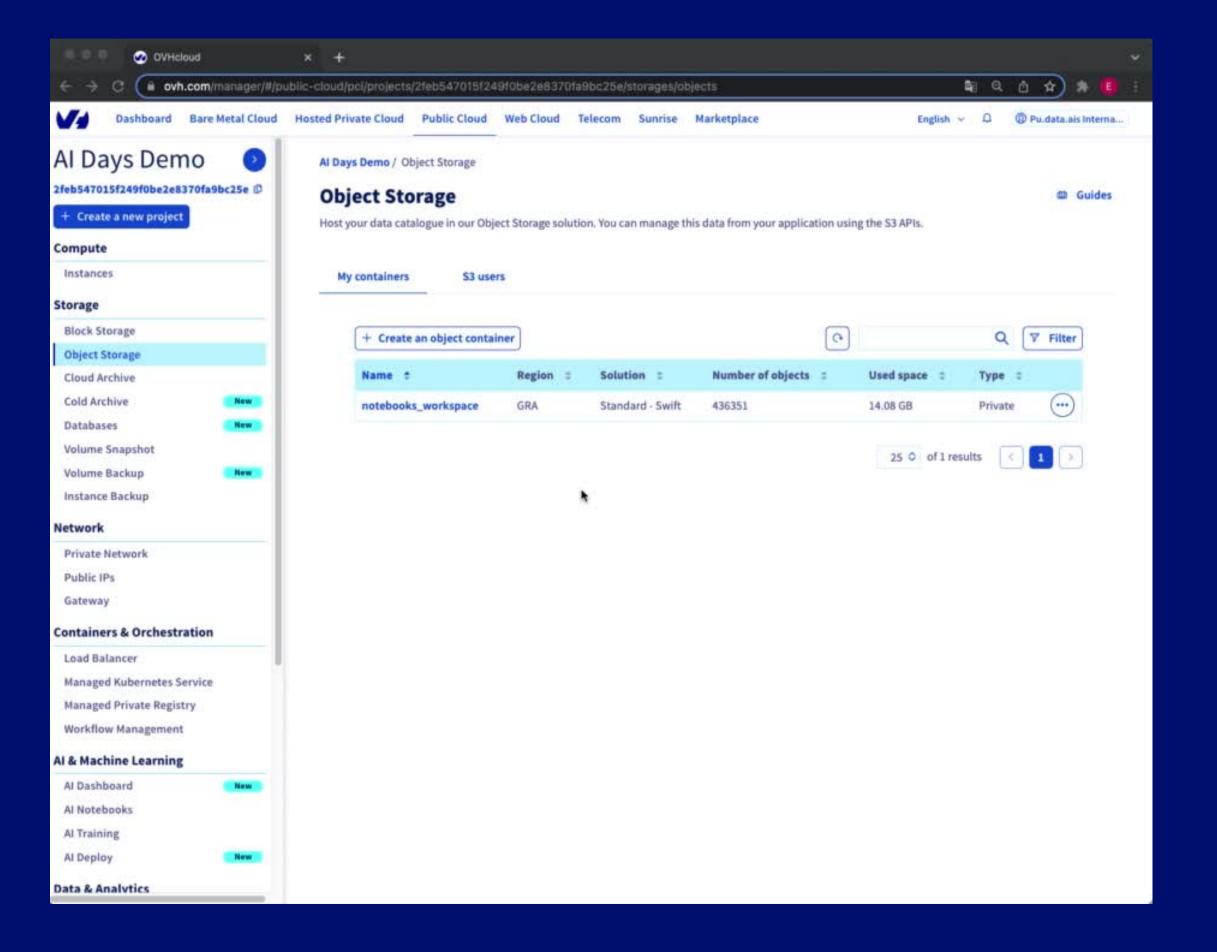




• store data, codes, models

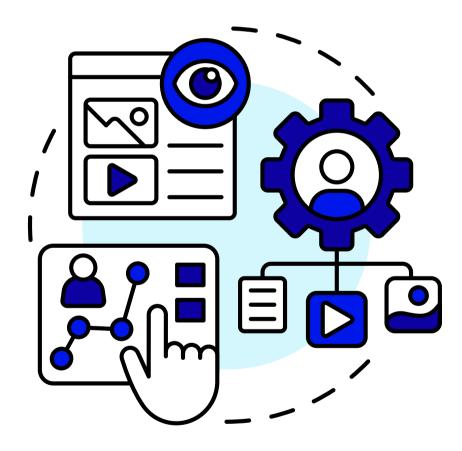




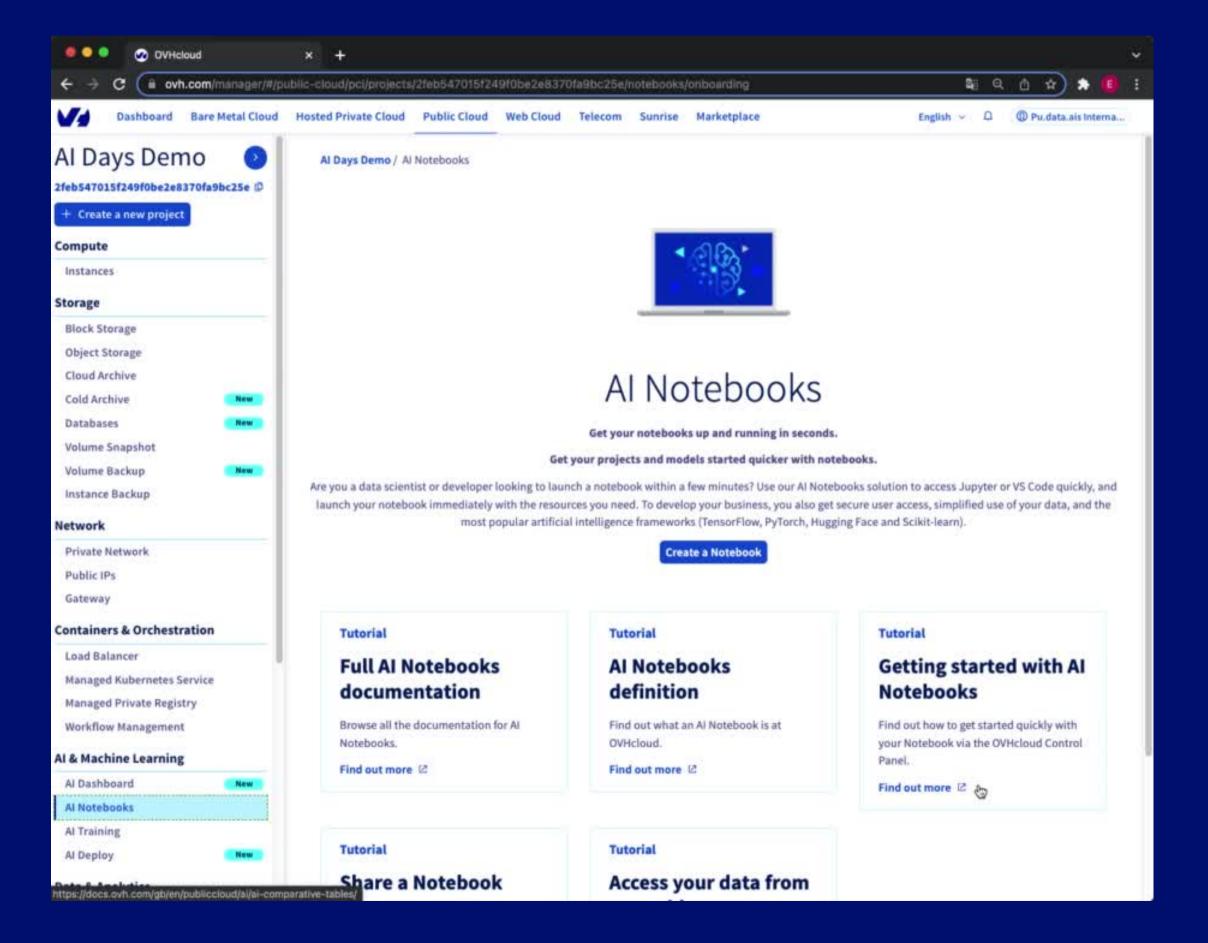




- explore
- process
- build

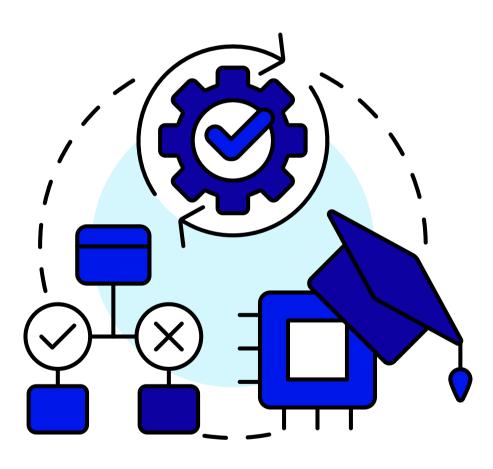




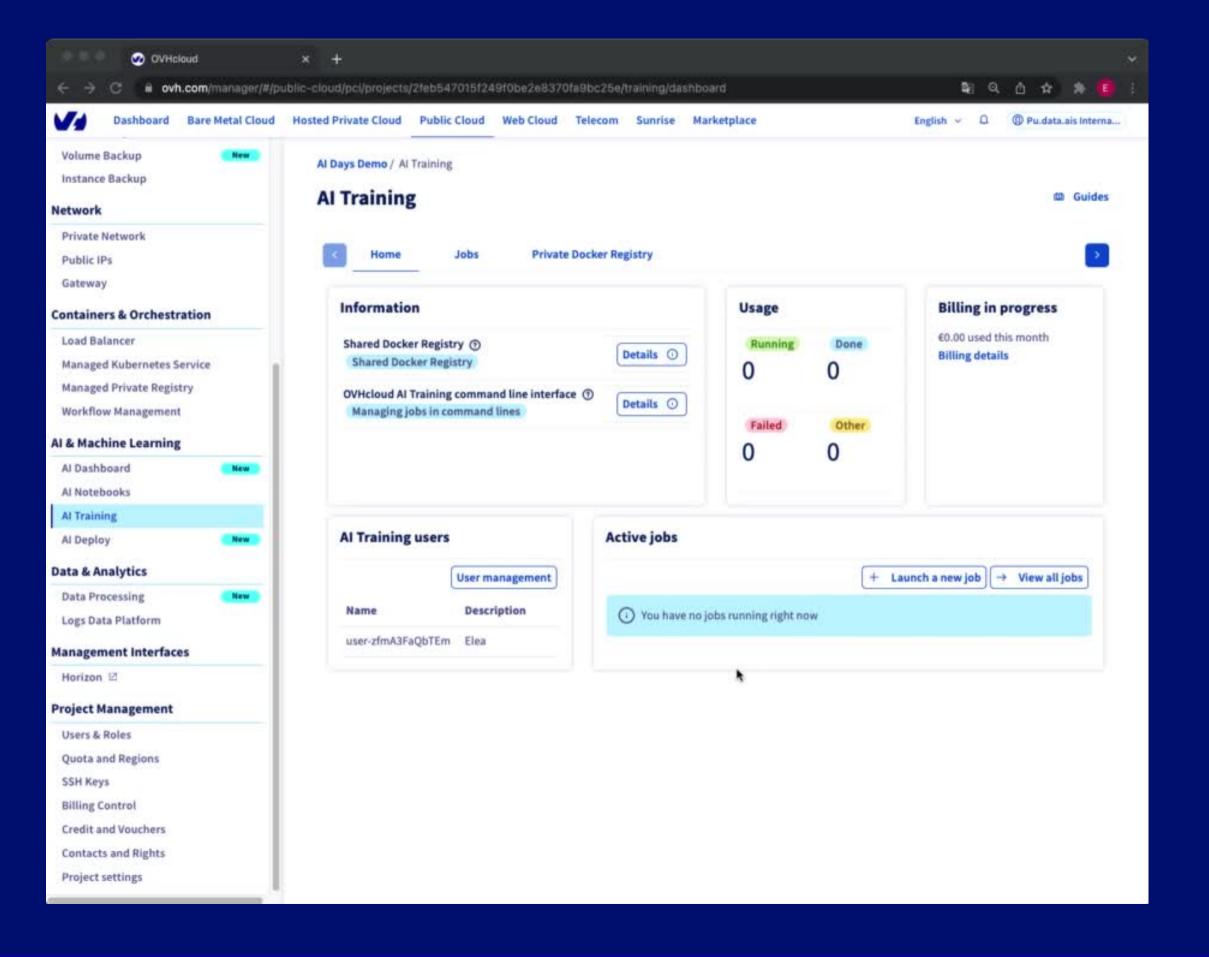




- train
- validate
- export

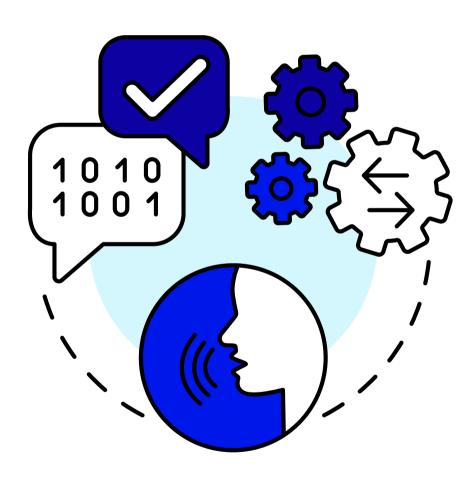




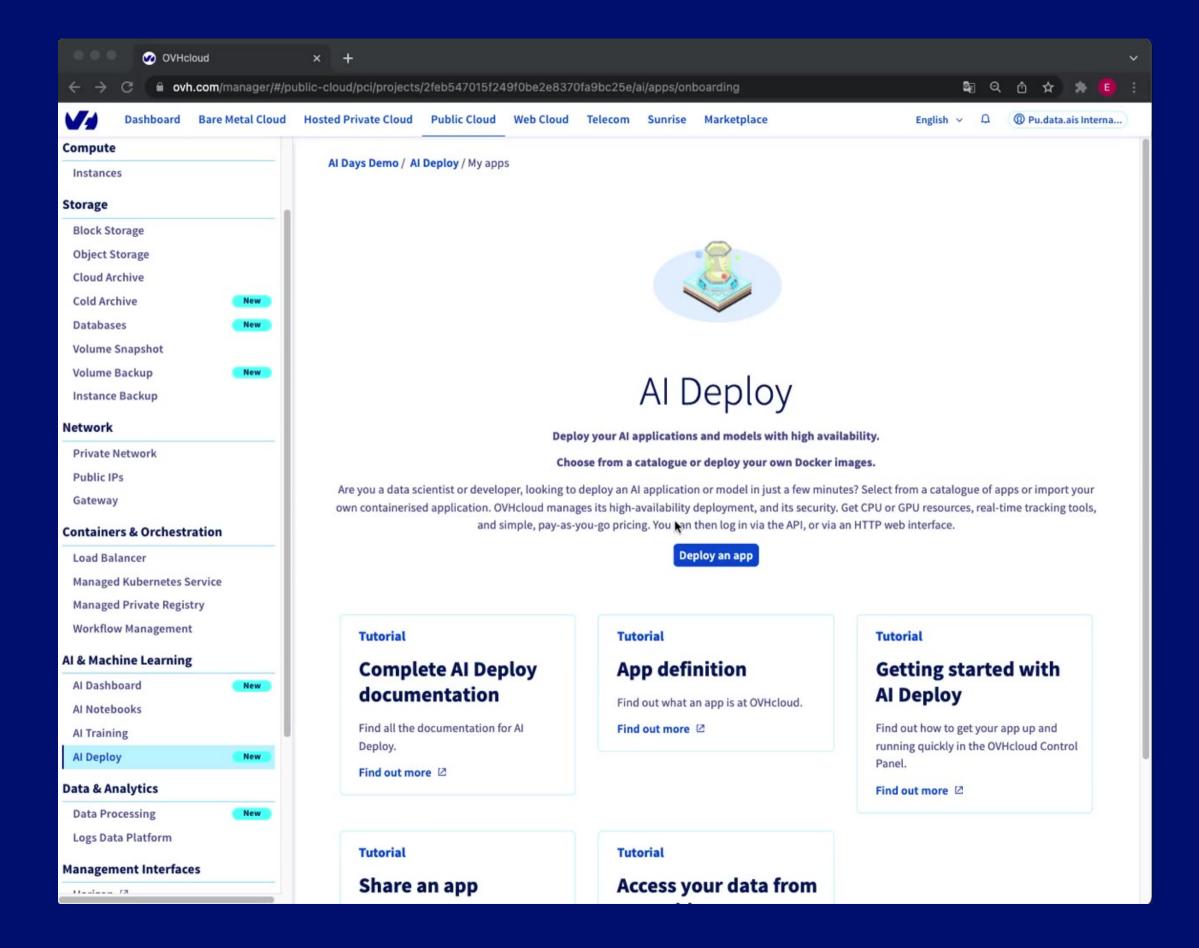


AI Deploy

- size
- secure
- deploy
- infer

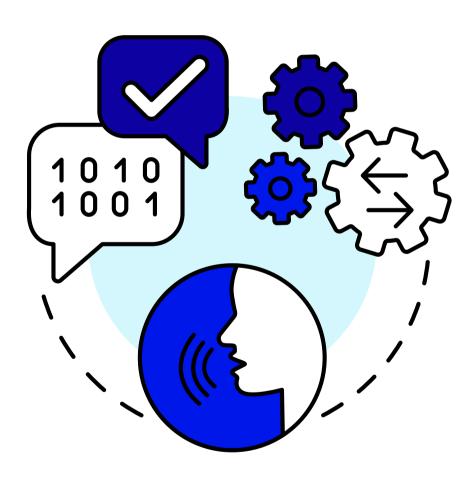




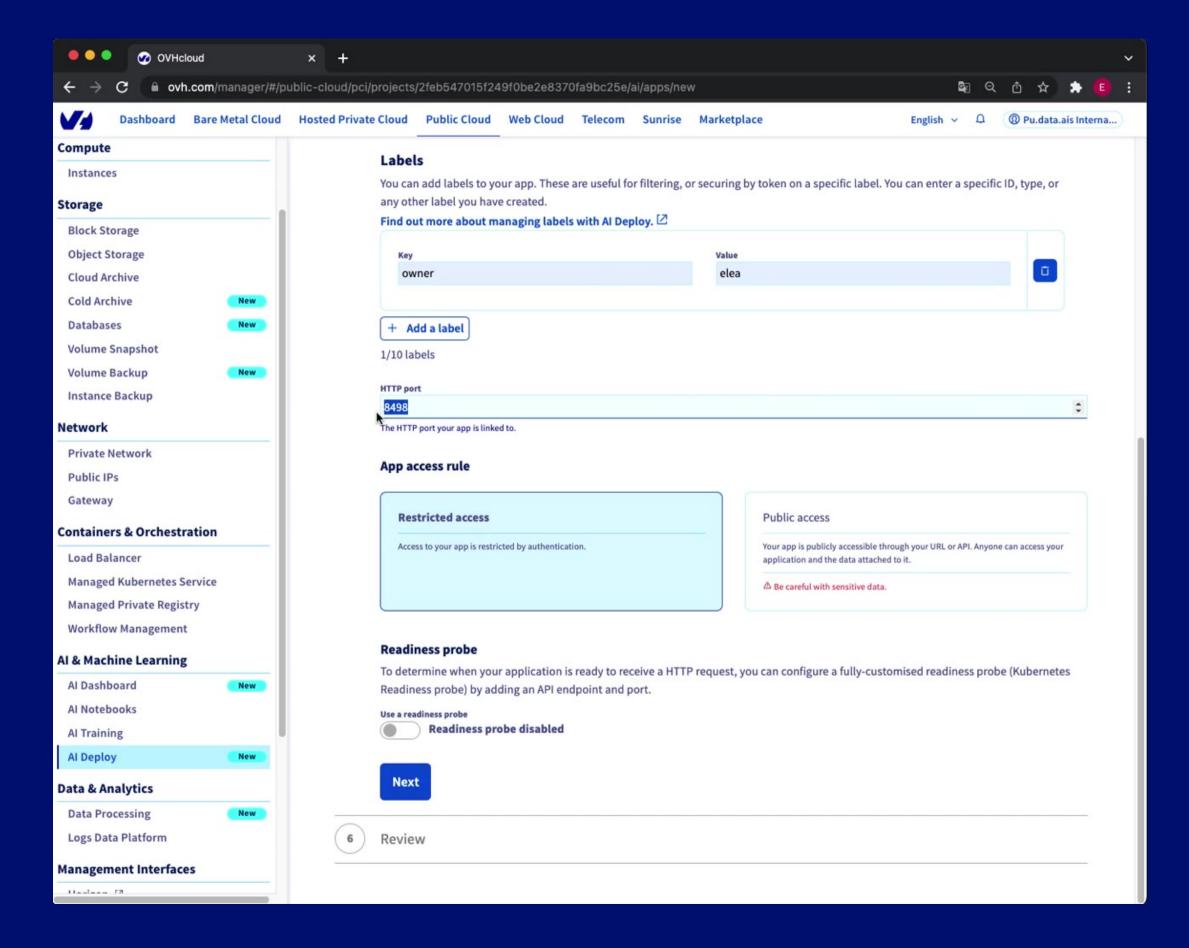




- size
- secure
- deploy
- infer









Al Solutions in a nutshell



Object Storage

Swift, S3, High Perf



AI Training

Training, validation



Spark jobs

Data Processing



Locally

Create, develop, build



Al Notebooks

Exploration, training



AI Deploy

Deploy, serve, infer





References

OVHcloud WebSite - AI offers

https://www.ovhcloud.com/en/public-cloud/ai-machine-learning/

OVHcloud Public Cloud - AI Solutions

https://www.ovh.com/manager/#/public-cloud

OVHcloud documentation - AI Solutions

https://help.ovhcloud.com/csm/en-gb-documentation-public-cloud-ai-and-machine-learning? id=kb_browse_cat&kb_id=574a8325551974502d4c6e78b7421938&kb_category=1f34d555f49801102d4ca4d466a7fd7d

OVHcloud GitHub repository - Al examples

https://github.com/ovh/ai-training-examples

OVHcloud Blog Post

https://blog.ovhcloud.com/

