

Service Deployment with ESD support

Lia Domide with input from many others
29.Nov.2024



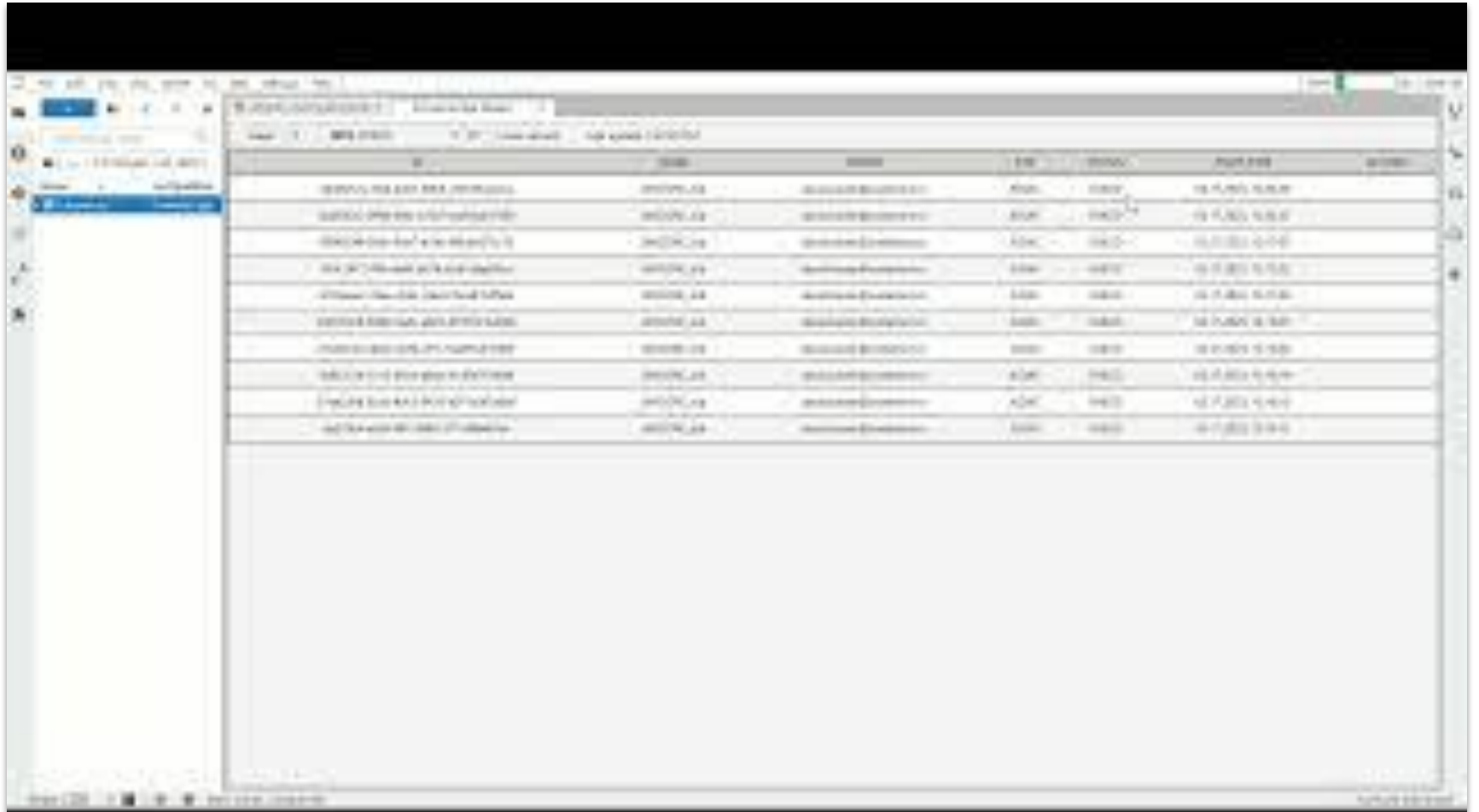
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What is a Service ?



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ext-unicore <https://www.youtube.com/watch?v=3vebDzFDm98>



The screenshot displays a network traffic analysis tool interface. The main window shows a list of network packets with columns for 'No.', 'Time', 'Source', 'Destination', 'Length', 'Protocol', and 'Application'. The data is as follows:

No.	Time	Source	Destination	Length	Protocol	Application
1	0.000000	192.168.1.1	192.168.1.100	60	TCP	HTTP
2	0.000000	192.168.1.100	192.168.1.1	60	TCP	HTTP
3	0.000000	192.168.1.1	192.168.1.100	60	TCP	HTTP
4	0.000000	192.168.1.100	192.168.1.1	60	TCP	HTTP
5	0.000000	192.168.1.1	192.168.1.100	60	TCP	HTTP
6	0.000000	192.168.1.100	192.168.1.1	60	TCP	HTTP
7	0.000000	192.168.1.1	192.168.1.100	60	TCP	HTTP
8	0.000000	192.168.1.100	192.168.1.1	60	TCP	HTTP
9	0.000000	192.168.1.1	192.168.1.100	60	TCP	HTTP
10	0.000000	192.168.1.100	192.168.1.1	60	TCP	HTTP

ext-bucket <https://www.youtube.com/watch?v=uNI1ZdbjVNg>



EBRAINS

Cloud Deployments



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Rancher

- What is rancher
 - web application over k8s
 - if offers a good separation between **services** and **execution** infrastructure
 - CSCS vs JCS
 - OKD
- How it works
 - IAM
 - separate users from the EBRAINS account
 - need to have your application as a container released
 - docker Hub or ebrains docker registry
 - expose something at a URL
 - web sockets server
 - REST api
 - web app



Rancher - vocabulary

- Workloads
 - Deployment
 - Pod
- Storage
 - Persisted Volume vs Persisted Volume Claim
 - Config Map
- Service Discovery
 - Ingress
 - Auto-Scalers



TVB in EBRAINS Cloud

tvb.apps.ebrains.eu

LEAD INSTITUTIONS

Aix-Marseille université

Baycrest

CHARITÉ
UNIVERSITÄTSMEDIZIN BERLIN

TVB - EBRAINS DEPLOYMENT SITES

TVB @ Cloud 1 Latest stable version of TVB Distribution, deployed in Juelich Rancher Cloud.
Please create personal project(s) for your work. Don't keep data in Default_Project, as it will be periodically cleaned-up, and it is shared with all users, intended for read-only purposes!

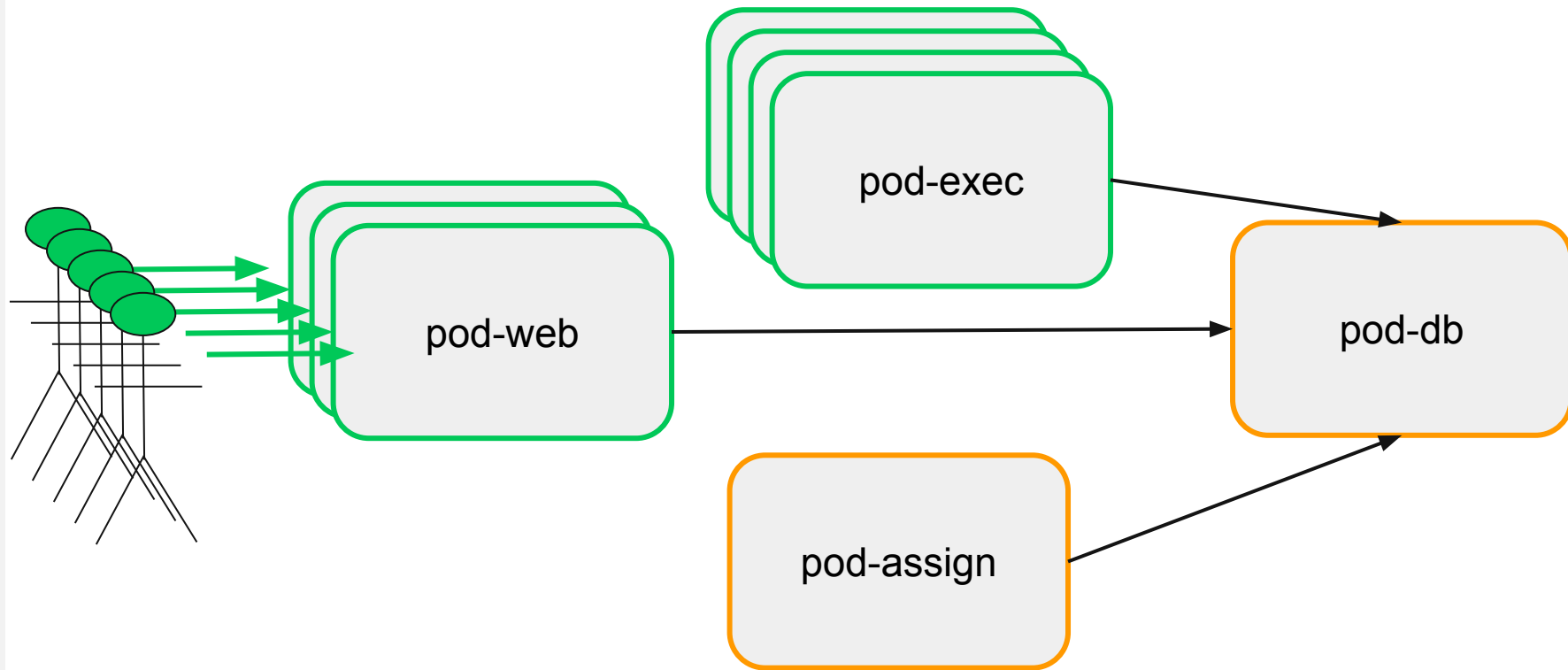
TVB @ Cloud 2 Latest stable version of TVB Distribution, deployed in Juelich Rancher Cloud.
Please create personal project(s) for your work. Don't keep data in Default_Project, as it will be periodically cleaned-up, and it is shared with all users, intended for read-only purposes!



TVB in EBRAINS Cloud

- tvb-framework
- cherrypy web server
 - postgresSQL DB
 - h5 files for large data
- IAM integration with EBRAINS
- long operations to execute in the backend
 - web client pull mechanism to get status updates
 - synch through DB

TVB in EBRAINS Cloud - arch



live



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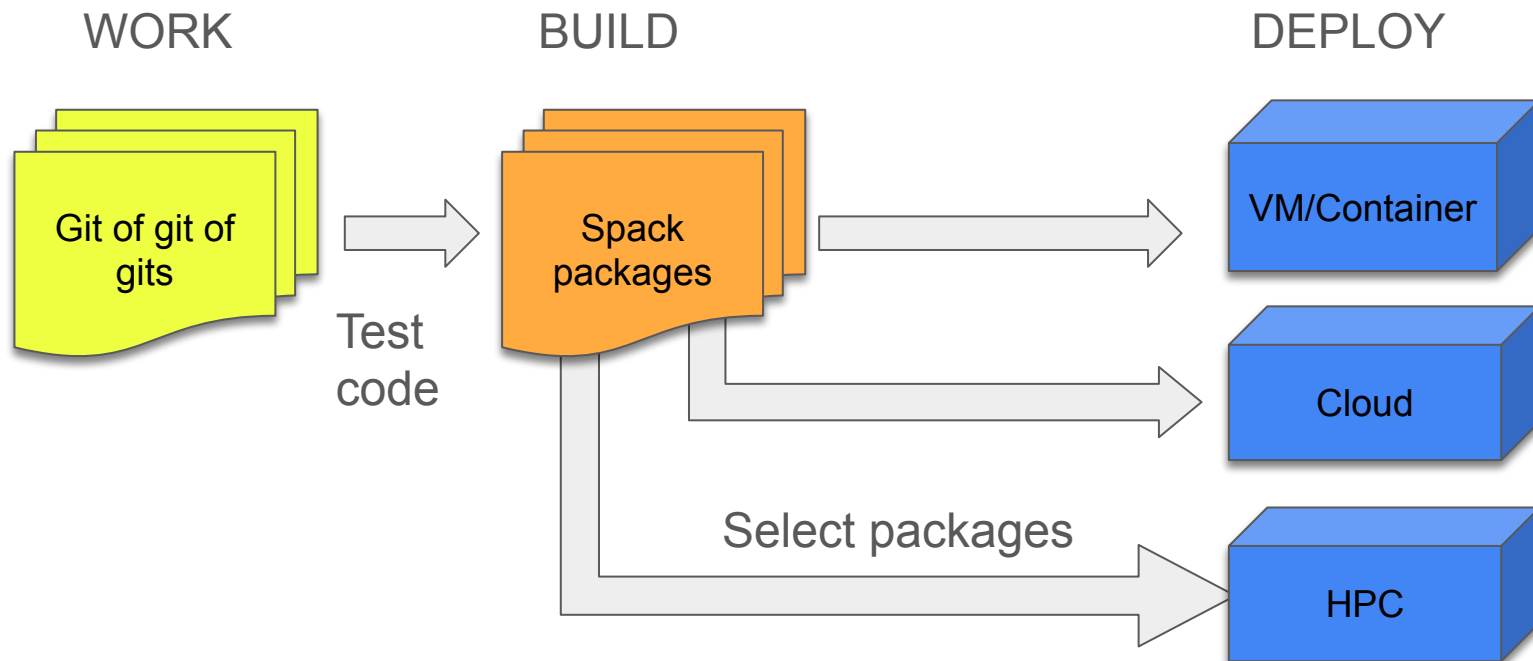


more than services

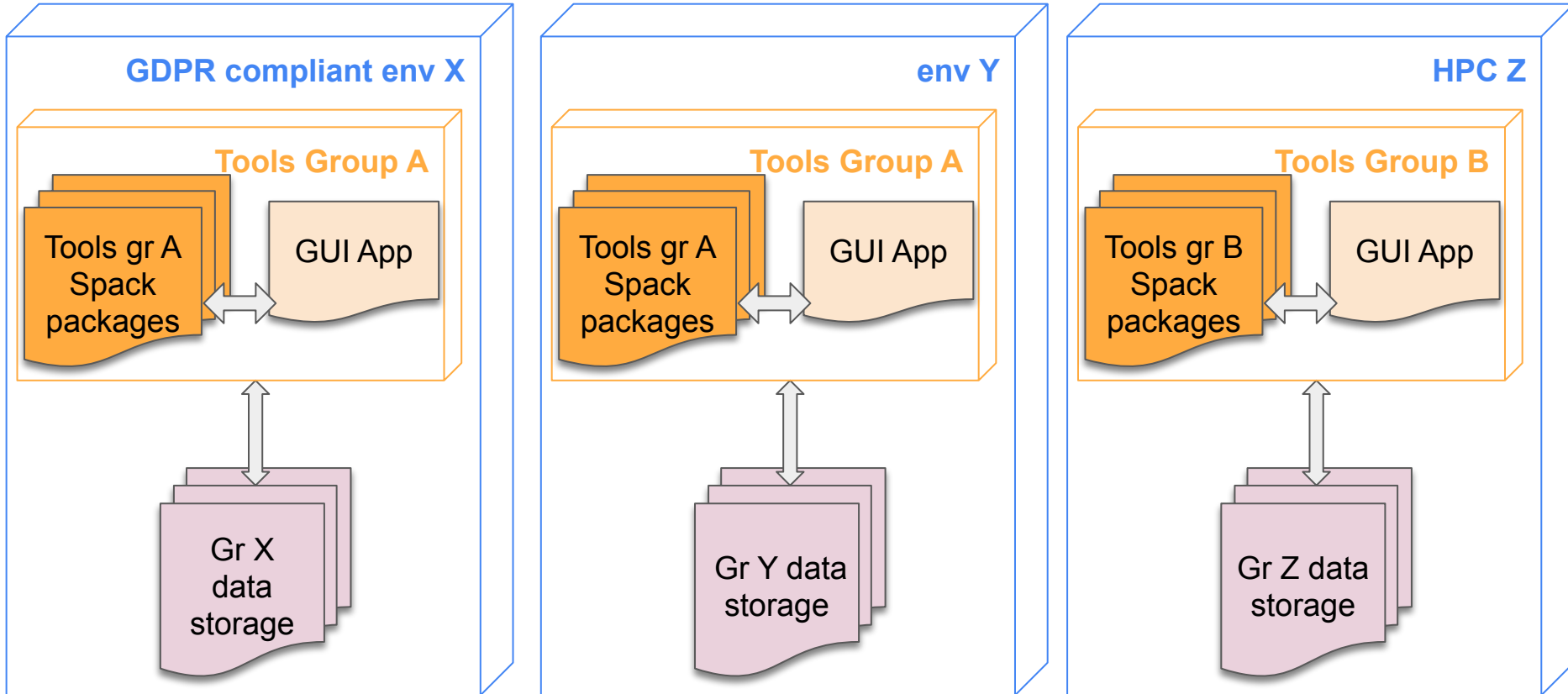


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Twin: build and deployment flow



VBT - is Interested in this



Questions time



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Thank you!



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