



Eiffel Summit 2023.1 @Göteborg

Whoami



- Panagiotis Efstratiou (aka “Panos” with an accent on ‘a’)
- I am from Greece, Rhodes Island.
- Living in Sweden, Stockholm the last 4 years.
- Working at Ericsson since May, 2022 as Software Engineer/Developer.
- Building Docklin tool mainly.
- Working with Eiffel internally (Docklin).
- Contributing to Eiffel OSS since January, 2023.

Agenda



- Eiffel Deployment @ Nordix
- Eiffel Easy2Use Tool
- Demo/Guidelines
- Discussion

What is Eiffel Easy2use?



Eiffel easy2use is aiming to create an easy installation for any set of components in Docker containers on a dedicated Docker host OR in a Kubernetes cluster via Helm charts, with no or minimal configuration required to get started.

Focus only on Kubernetes today! 😊

GitHub repo: [eiffel-community/eiffel-easy2use](https://github.com/eiffel-community/eiffel-easy2use): A sandbox to be used to try out the Eiffel protocol and related services (github.com) ★

Eiffel Easy2Use Services



```
Easy2Use: Kubernetes install package service(s): mongodb mongo_seed rabbitmq ei_backend_artifact ei_backend_sourcechange ei_backend_testexecution ei_backend_allevnts ei_fr  
ontend vici dummy_er remrem_generate remrem_publish er jenkins jenkins_fem nexus
```

RabbitMQ

Remrem Publish

MongoDB

And more...

Remrem Generate

Jenkins

ER

Eiffel Easy2Use Cheatsheet



Start bundle in Docker	<code>./easy2use start -t Docker <bundle></code>	Install/Remove
Start bundle in K8S	<code>./easy2use start -t Kubernetes -n <namespace> -d <domain> <bundle></code>	
Start bundle's service(s) in K8S	<code>./easy2use start -t Kubernetes -n <namespace> -d <domain> -s <service1,service2..> <bundle></code>	
Start bundle's package in K8S	<code>./easy2use start -t Kubernetes -n <namespace> -d <domain> -p <package> <bundle></code>	
Remove bundle in Docker	<code>./easy2use remove -t Docker <bundle></code>	
Remove bundle in K8S	<code>./easy2use remove -t Kubernetes -n <namespace> <bundle></code>	
Remove bundle's service(s) in K8S	<code>./easy2use remove -t Kubernetes -n <namespace> -s <service1,service2..> <bundle></code>	
Remove bundle's package in K8S	<code>./easy2use remove -t Kubernetes -n <namespace> -p <package> <bundle></code>	

Local K8S hyper-v configuration	<code>./easy2use configure-local-k8s-hyper-v -t Kubernetes -n <namespace> <bundle></code>	Local K8S cluster
Local K8S minikube configuration	<code>./easy2use configure-local-k8s-minikube -t Kubernetes -n <namespace> <bundle></code>	
Local K8S hyper-v hosts file config	<code>./easy2use generate-local-hosts-file-hyper-v -t Kubernetes -n <namespace> <bundle></code>	
Local K8S minikube hosts file config	<code>./easy2use generate-local-hosts-file-minikube -t Kubernetes -n <namespace> <bundle></code>	

List URLs for services in K8S	<code>./easy2use list -t Kubernetes -n <namespace> <bundle></code>	Listings
List URLs for services in Docker	<code>./easy2use list -t Docker <bundle></code>	
List packages in bundle for Docker	<code>./easy2use list-packages -t Docker <bundle></code>	
List packages in bundle for K8S	<code>./easy2use list-packages -t Kubernetes <bundle></code>	
List services in package for K8S	<code>./easy2use list-packages -p <package> -t Kubernetes <bundle></code>	
List user/psw for services in K8S	<code>./easy2use list-psw <bundle></code>	
List bundle information	<code>./easy2use info <bundle></code>	

EASY2USE
Cheatsheet

Usage: `./easy2use COMMAND [OPTIONS] BUNDLE`
Help: `./easy2use -h`

GitHub: <https://github.com/eiffel-community/eiffel-easy2use>

Bundle
Packages
Service
Service

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V1.5.0

Deploy and Verify Eiffel @Nordix Cluster




1. Connect to Nordix cluster using SSH keys.
2. `git clone https://github.com/eiffel-community/eiffel-easy2use.git && cd eiffel-easy2use/`
3. `kubectl create ns eiffel`
4. `./easy2use start -t Kubernetes -d eiffel4eiffel.nordix.org -n eiffel -e /bundles Eiffel -y`
5. `kubectl get pods -n eiffel`
6. `kubectl get ingress -n Eiffel`
7. Check that you can access any service in your browser
8. Build a dummy Jenkin job with Eiffel events (examples are provided in the repo)
9. Query Eiffel-ER in order to fetch some Eiffel events

The abovementioned steps is a good way to **deploy and verify** that everything works properly. It takes **1-2** minutes **only**!

In The Future



- Fix or update some details!
- Try Eiffel Easy2Use and give feedback, such as open an issue on GitHub (**highly appreciated**).
- Try to contributor (**appreciated**).
- **Anything else?** 

Why should we care about Eiffel Easy2Use?



- It's a good way to start experimenting as a rookie Eiffel user!
- Not bad for prototyping/trying new ideas!
- Makes Eiffel more attractive!

• **Anything else?**





Thanks for your attention!