



DRUPAL DEVELOPER DAYS
LISBON 2018

Running Drupal on Kubernetes

Lakshmi Narasimhan



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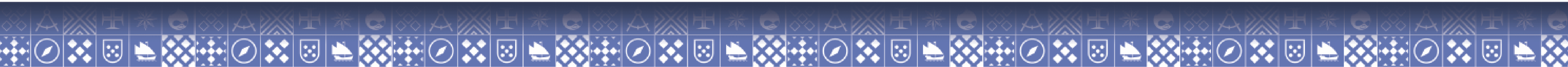


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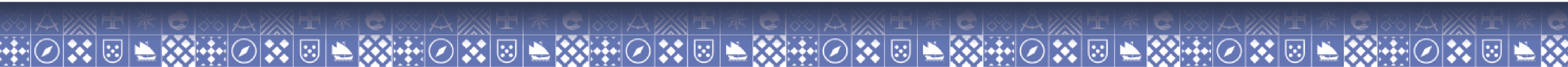
Agenda

- Docker containers, build an image
- Kubernetes concepts
- Minikube
- Launch a K8s cluster
- Deploy Drupal
- Redeploy changes
- QA

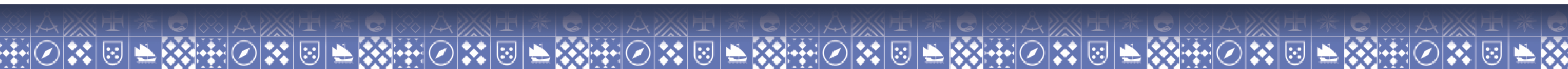


Prerequisites

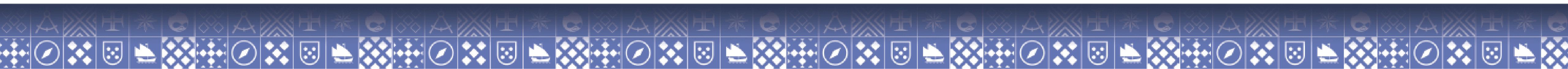
- Git
- docker
- Minikube
- Dockerhub account(free)
- Clone <https://github.com/badri/drupal-k8s>
- **Optional:** A DigitalOcean and Containership account



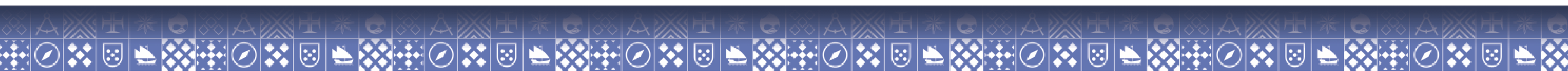
Why use containers?



Docker registry

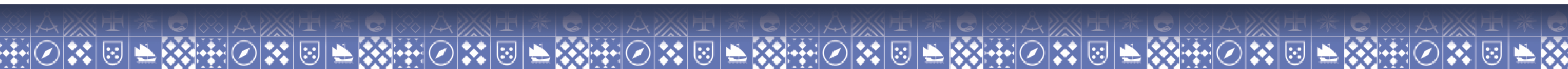


Immutable infrastructure

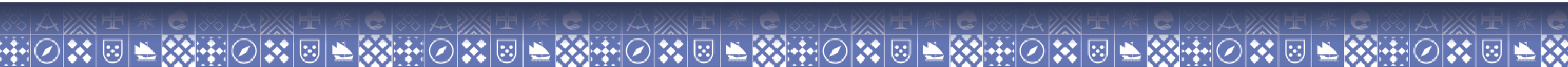


Action

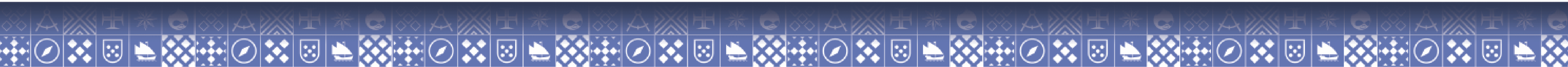
Build a base image of your Drupal code base and push to docker registry.



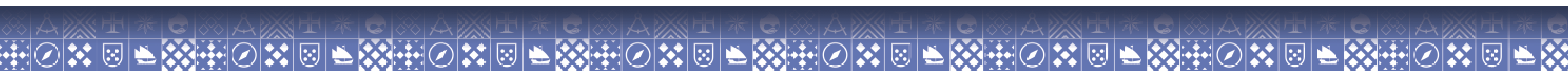
Container orchestration



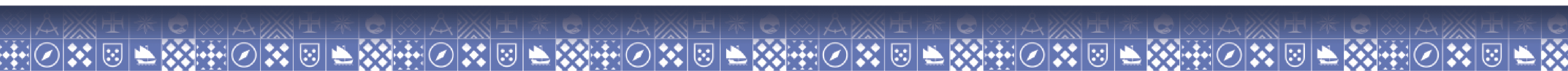
K8s



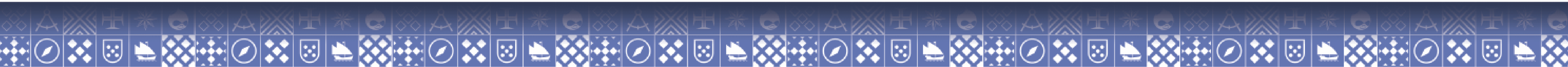
Pod



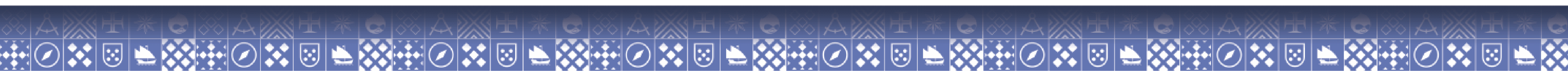
Replica set



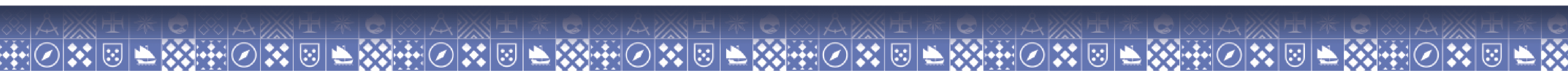
Service



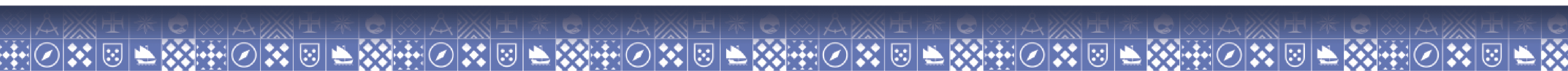
Deployment



Volume

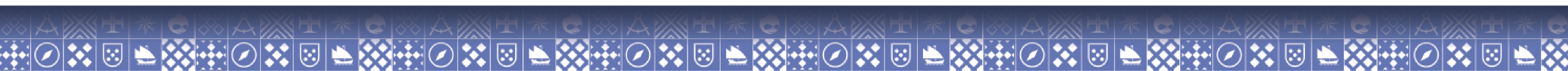


Installing K8s



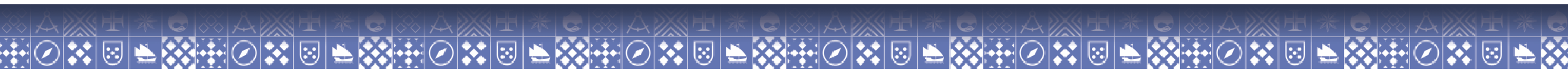
Options

Kubeadm, Kubespray, Kops, managed Kubernetes.



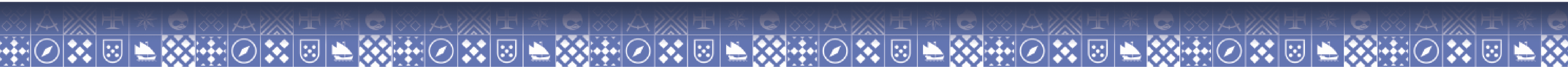
Action

Play with Minikube to understand k8s concepts



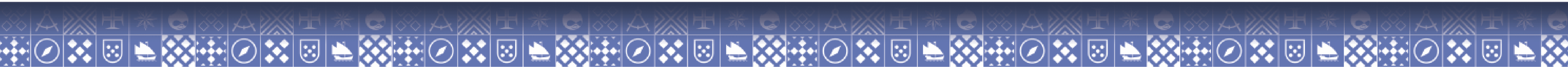
Action

Sign up for DO account.



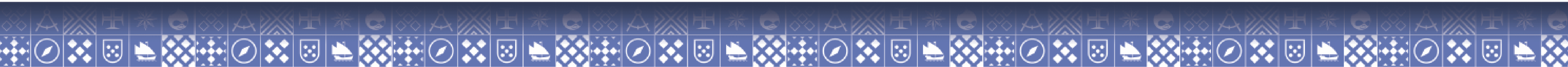
Action

Sign up for Containership.io account



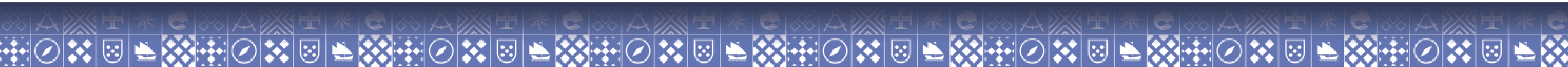
Action

Switch kubectl context



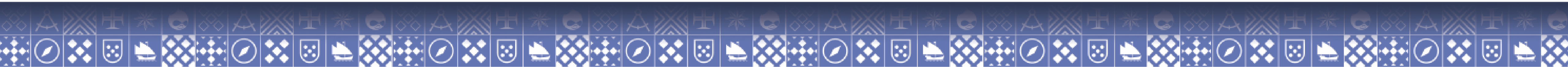
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Deploy Drupal



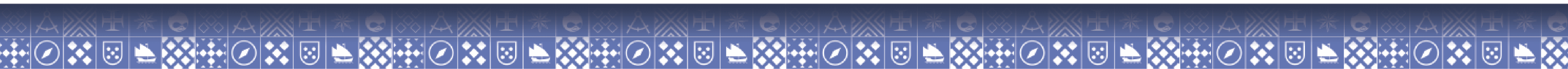
Action

Create a new deployment



Action

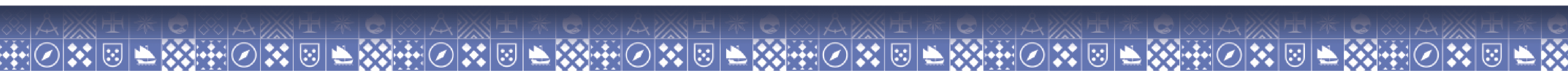
Pointing to new domain name, using Drush



The ecosystem

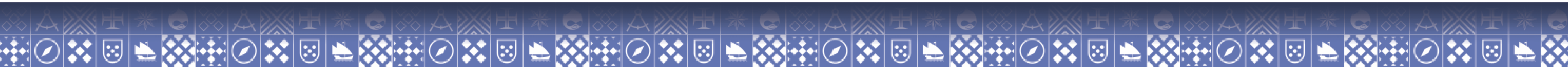


<https://www.cncf.io/projects/>



Thanks

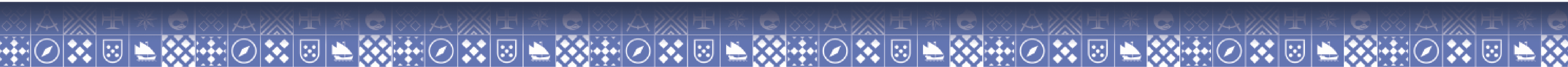
- [Axelerant](#)
- [Kubernetes in Action](#), by Marko Lukša
- [Devops toolkit book series](#), by Viktor Farcic
- [Unsplash](#) for the stock photos



How to reach me for

- Further questions
- Comments
- Feedback

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[@lakshminp](https://www.instagram.com/lakshminp)





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