




FULLSTACK

Kubernetes For Developers Training



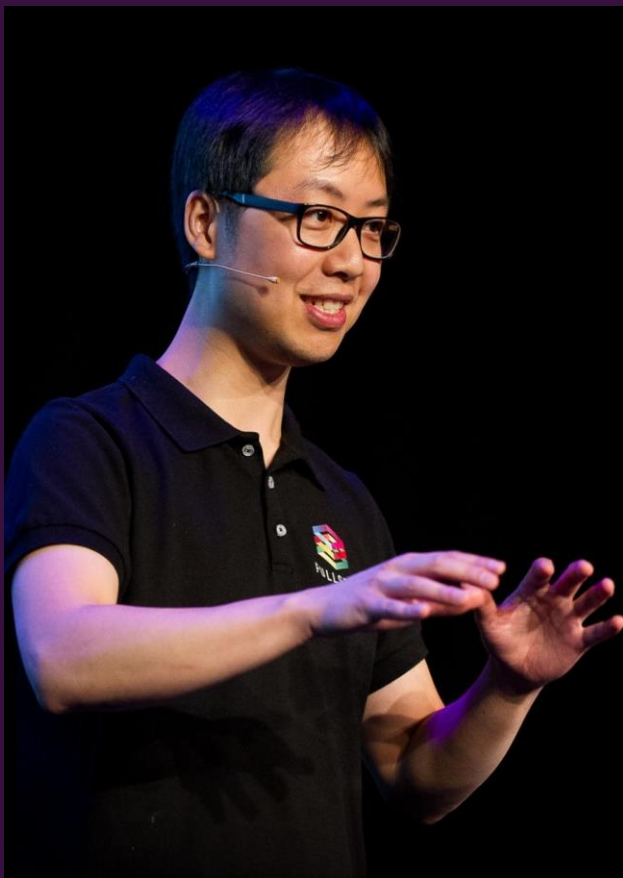
Kubernetes for Developers

 3-day training

This training course is specifically designed for those who already have hands-on experience with Kubernetes and want to explore its deepest depths. You'll learn how to iterate faster and more safely.

The Kubernetes for Developers course covers subjects such as deployment strategies, configuration, Pods, Services and Ingress. Just to name a few.

All talk, no action? Definitely not. We need you to bring your A-game to the Kubernetes for Developers training. Through hands-on workshops, we'll have you containerize and deploy applications to a Kubernetes cluster and iteratively improve it. Our trainers will put you to work! Pick their brain while you're at it: they are true experts and happy to share their first-hand experiences and war stories.



QUICK FACTS



For Who

Anyone who knows the basics of Kubernetes. Participants typically include Developers but also SREs, DevOps, and Operations people.



Requirements

You should be familiar with modern applications and understand how to execute and test source code on your own machine. Docker experience is a bonus.



Time Investment

The complete course takes two full days. It's possible to split it up over multiple days.



Pricing

Get in touch.

What You'll Learn

- All your options when working with containers
- The role of core Kubernetes resources (Pod, Deployment, Service, Ingress)
- Using Kubernetes to pass configuration and secrets to running applications
- How to use Kubernetes startup and shutdown features to ensure that apps are initialized in a stable environment and are shut down gracefully
- Security considerations in cloud-native apps and recommended tools to minimize risk
- Identify performance bottlenecks by using tracing to visualize requests from the end-user
- Effective debugging strategies for identifying and fixing outages caused by application bugs

What to Expect

After completing the Kubernetes for Developers course, you'll confidently containerize, deploy, and configure applications. If you want to take the CKAD exam, this training is the perfect preparation for it.



Day 1 of Kubernetes for Developers

You'll gain a deep understanding of containers, pods, and pod controllers. Your teacher will mix theory and practice so that you can experience the value of applied knowledge. All the topics are accompanied by hands-on labs in which you'll get to practice and collaborate with the other participants.

After day one, you'll be able to build a container and play with layers, build, edit, delete and recreate a pod, and manage pods through controllers such as daemonsets and deployments.

Topics: containers | layers | pods | kubectl command | yaml spec | namespaces | pod controllers | daemonsets | deployments | statefulsets | replicaset



Day 2 of Kubernetes for Developers

Now that you've examined some essential mechanisms of containers and pods, it's time to take it up a notch. On the second day, you'll take a closer look at Kubernetes clusters, services, Ingress and the relationship between them. Your teacher will make sure you'll gain hands-on experience in labs and will save plenty of time for any questions you might have.

After day two, you'll be able to expose applications via a service, configure via configmaps and secrets. To top that off, you'll know how to let Kubernetes manage your application through auto-healing and automatic scaling.

Topics: kubernetes layout diagram | components | Ingress | Ingress controllers | configmaps | secrets



Day 3 of Kubernetes for Developers

On your last day of training you'll explore different storage solutions, learn all about securing your workloads, how to use custom controllers and investigate deployment strategies.. Through workshops and labs you'll internalize all your newly found knowledge.

After day three, you can share a volume between two containers in the same pod, build a manual PV and use it in a pod, allow and prevent pods to read nodes and configmaps, use a controller and deploy with Helm and Kustomize.

Topics: storage | storageclasses | manual PV's | security | authentication | authorization | external DNS | cert Manager | helm | kustomize



FULLSTAQ



Why You Should Trust Us to Take YOU to the Next Level

Fullstaq is a Kubernetes Certified Service Provider (KSCP), and we have years of experience helping our customers successfully implement and adopt Kubernetes. That means your teachers are highly-qualified experts who know first-hand what Kubernetes entails. They've been around the block and are excited to share their hands-on knowledge and learnings.