

Container Technology: Kubernetes (K8s) Applications Workshop

Including hands-on session in WordPress scenario

Course Fee: HK\$1,200 (May apply up to HK\$800 subsidy)

*Maximum saving, with the final grant subjects to approval.



Kubernetes can quickly configure WordPress. Using WordPress as an application landscape and powerful container to process up to 10,000 transactions per second, thereby understanding the design of high-traffic systems. It can also be used as flexible computer to compute and utilise resource.

Through this course, you will be able to use Serverless K8s to implement applications from "zero" to "WordPress" and learn how to perform Load Test. Master the skills in just one day!

Programme code	10013022-01
Date and time	1 day (09:30-17:00, Total: 6 training hrs)
Venue	Online broadcast / HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
Medium	Cantonese, supplemented with English terminology
Course fee	HK\$1,200 (May apply up to \$800* subsidy)
Prerequisites	Participants need to understand Linux management skills and be able to use Command Line handily

Enrolment Methods

1. Scan the QR code to complete the enrolment and payment online.
2. Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) to HKPC Academy, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Mr. Desmond CHAN). Please indicate the course name and course code on the envelope.



[Enrolment Link](#)

Supporting Organisations



This course is an approved Reindustrialisation and Technology Training Programme (RTTP), which offers up to 2/3 course fee reimbursement upon successful applications. For details: <https://rttp.vtc.edu.hk>.

Course Outline

1. Container Technology Overview
2. Kubernetes Overview
3. Programming elements of Microservices

4. Lab session

Scalable WordPress deployment on Kubernetes

- Preparation Work
- Kubernetes Cluster Setup
- Create a Cloud MySQL Instance
- Create a PV and PVC backed by NFS persistent Disk
- Deploy WordPress Instance
- Configure horizontal and vertical auto scaling
- Simple Load Test
- (advance) WordPress Stateless
- (advance) Setup SSL Ingress

About CKA Certification Exam



The Certified Kubernetes Administrator (CKA) program was created by the Linux Foundation and the Cloud Native Computing Foundation (CNCF) as part of helping develop the Kubernetes ecosystem. It is one of the fastest open source project. There are no prerequisites for this exam.

Trainer Information

Felix TSANG is a BSc in Computer Science from the Chinese University of Hong Kong. He is a Red Hat Certified Architect with expertise in cloud management and cloud computing technologies. He has rich experience in IaaS and PaaS solutions and has been working in Kubernetes for over 4 years.

Peter MA is MSc in the HK Polytechnic University and Certified Kubernetes Administrator of Linux Foundation. He has spent 30 years in the Hong Kong Information Technology sector with rich experiences in software development, infrastructure support, and project management. He has been teaching in IVE (under Vocational Training Council) for the past ten years.

RTTP Training Grant Application

Companies should submit their RTTP training grant application for their employee(s) via <https://rttp.vtc.edu.hk/rttp/login> at least two weeks before course commencement. Alternatively, [application form](#) could be submitted by email to rttp@vtc.edu.hk along with supporting documents.