

Securing Microservices in Kubernetes Container Environment for Serverless PaaS Cloud



Course Fee: HK\$6,800 (May apply up to HK\$4,533 subsidy)

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



Serverless PaaS cloud environment is the next wave of Cloud Computing Container technology that enables developers to work and deploy containerised applications in various environments consistently.

However, convenience comes with risks. With potential security threats and uncertainties, is container secure? Is PaaS cloud vulnerable to attack? Who should take care of the PaaS security and how? **This intensive 2-day programme aims at equipping attendees with practical knowledge in deploying microservices with Docker and Kubernetes securely in a public cloud environment.**

Programme code	10010761
Date and time	10 – 11 December 2020 09:30 – 17:30 (Total 14 hours)
Venue	HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon
Medium	Cantonese with English handout
Course fee	Early bird price on or before 12 Nov 2020 Non-member: HK\$6,600 per person Member of Organiser / Supporting Organisation: HK\$6,400 per person Regular Price Non-member: HK\$6,800 per person Member of Organiser / Supporting Organisation: HK\$6,600 per person
Remarks	The application deadline is 3 Dec 2020 . Late submission will NOT be considered.

Supporting Organisations



Objectives

Nowadays, most companies employ cloud computing technology in their business operations due to convenience and cost effectiveness. However, convenience usually come along with security threats risks, and uncertainties if we do not handle it carefully! **This intensive 2-days course aims to equip attendees with practical knowledge in deploying web application in general public cloud environment (e.g. AWS and Azure environment) from application architecture design, identity & account management, management plane security, network firewall management, and security audit testing.**

Course Outline

During the workshop, participants will have hands on experience to implement a typical web application in a public cloud with various security features.

Content

- Secure virtual network architecture design
- Security of various cloud service model
- Introduction on microservices, Docker, Kubernetes and their security concerns
- Kubernetes deployment and microservices architecture design
- Security best practices and real-life case studies for Kubernetes deployment
- Security in Microservices Architecture
- Serverless application deployment and related security best practices
- Secure dockerfiles deployment
- Identity and access management

The workshop will be conducted in Google Cloud Platform environment. Other security features available on cloud platform will also be introduced.

Trainer

Dr Ricci IEONG

Principal Consultant, eWalker Consulting (HK) Limited

Having worCISSP, CISA, CCSK, CCSP, CCFP, CEH, F.ISFS, ISSMP, ISSAP, ISO 27001LA, STAR Auditor

Dr IEONG has over 15 years of experience in the Information Technology Industry and in IT Security area specialised in Security Risk Assessment, IT Audit, Ethical Hacking & Penetration Test, Smart Card & Biometrics System deployment and Computer Forensics Investigation. He currently serves as Principal Consultant of eWalker Consulting (HK) Ltd.

Having worked for HP and founded the first HP e-Security Center (also known as Penetration Test Center) in Hong Kong, he has led and conducted over 100 security assessments, IT Security Audits, penetration tests and incident handling services for HKSAR government departments, banks and multinational organisation in Hong Kong throughout these years. He is one of the founding instructors in the first diploma and graduate diploma course in computer security and forensics investigation recognised by HKSAR law enforcement team. In year 2002, Dr IEONG was invited by HKSAR government HK Police Force to courtroom as the first expert witness in HK Computer Crime Investigation.

Dr IEONG is the founding member and Council member of the Information Security and Forensics Society (ISFS). He recently founded the Cloud Security Alliance Hong Kong and Macau Chapter and participated as Director of Education. He has conducted over 20 technical IT security training and workshop on cloud computing security, and provided cloud security awareness training to the public.

Target Participants

Individuals interested in cloud deployment and familiar with network architecture and management, such as

- System Integrators
- System Administrators / Engineers / Analysts
- Technical Engineers / Managers
- Information Security Analysts / Managers

Certificate

Participants who have attained at least 75% attendance of lecture will be awarded a Training Attendance Certificate.

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.

Enrolment method

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) and the application form should be mailed to Hong Kong Productivity Council, 2/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Ms Judy LIU). Please indicate the course name and course code on the envelope.

(Only receipt printed with receipt printers at HKPC is valid. Receipt of cheque payment is subject to bank clearance.)



<https://www.hkpcacademy.org/en/programmeDetail.jspx/10010761>