



Securing Microservices in Kubernetes Container Environment for Serverless PaaS Cloud

Serverless PaaS cloud environment is the next wave of Cloud Computing. Container technology enables developers 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 of deploying microservices with Docker and Kubernetes securely in a public cloud environment.

Programme code	10010130
Date and time	31 Aug – 1 Sept 2020 09:30 – 17:30 (Total 13 hours)
Venue	HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon
Medium	Cantonese with English handout
Course fee	<p>Early bird price on or before 10 Aug 2020</p> <p>Non-member: HK\$6,600 per person Member of Organiser / Supporting Organisation: HK\$6,400 per person</p> <p>Regular Price</p> <p>Non-member: HK\$6,800 per person Member of Organiser / Supporting Organisation: HK\$6,600 per person</p>
Remarks	The application deadline is 24 Aug 2020 . Late submission will NOT be considered.

Supporting Organisations



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.

Target Participants

Individuals who are 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.

Trainer

Dr Ricci IEONG

Principal Consultant, eWalker Consulting (HK) Limited

CISSP, 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.

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 Tracy CHOY). Please indicate the course name and course code on the envelope.



<https://www.home.hkpcacademy.org/en/10010130>