

Securing Microservices in Kubernetes Container Environment for Serverless PaaS Cloud



Course Code: 10009699

HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong 香港九龍德輔道中 78 號生產力大樓 T +852 2788 6342 F +852 2788 6260 www.hkpcacademy.org

Serverless PaaS cloud environment is the next wave of Cloud Computing Container technology enables developers work and deploy containerised applications on various environment 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 on a public cloud environment.

Training Date:	22 – 23 April 2020 (2 days)
Time:	09:30 – 17:30 (Total 13 hours)
Venue:	HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon
Inquiry Hotline:	+852 2788 5884 (Ms Tracy CHOY)

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. These include:

- 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

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 leong 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 leong was invited by HKSAR government HK Police Force to courtroom as the first expert witness in HK Computer Crime Investigation.

Dr leong 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.

Medium of Instruction

Cantonese with English handout

Certificate

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

Inquiry

Please feel free to contact Ms Tracy CHOY at +852 2788 5884 or tracyc@hkpc.org for inquiry.

Enrolment & Payment Method

The deadline for application is 17 April 2020. Late submission will NOT be considered.

1. Scan the QR code to complete the enrolment and payment online.



2. Enrolment form can be downloaded at <https://www.hkpcacademy.org/en/enrollment.aspx>.

3. Training Fee

Early bird price *on or before 8 April 2020*

- Non-member: HK\$6,600 per person
- Member of Supporting Organisation: HK\$6,400 per person

Regular Price

- Non-member: HK\$6,800 per person
- Member of Supporting Organisation: HK\$6,600 per person

4. By Crossed Cheque

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 your name on the envelope.

5. By Direct Bank Transfer / By e-Cheque

Name of account : HONG KONG PRODUCTIVITY COUNCIL

Banker's name : Standard Chartered Bank (Hong Kong) Limited

Banker's address : 4-4A Des Voeux Road Central, Hong Kong

HKD account no. : 447-1-071900-3 (Receipt of HKD and other currencies)

SWIFT code : SCBLHKHHXXX

Note: Please send payment advice/remittance/bank in slip to email :

tracyc@hkpc.org or fax number : (852) 2190 9784

6. By Cheque/Cash/Credit Card Payment

Visit the registration counter of HKPC Academy, Hong Kong Productivity Council (1st Floor, HKPC Building, 78 Tat Chee Avenue, Kowloon) to enrol and settle the course fee.

Office hours: Monday to Friday 09: 00-21: 00 | Saturday 09: 00-17: 00