

# International Cloud Workshop Foundation

## Course description

This class training includes overview of cloud security, risk assessment in lecture and most of time estimating, creating, and securing a cloud infrastructure in the workshop.

## Aim

This class is appropriated for security professionals moreover is also useful for anyone searching to increase their knowledge of cloud security and information security.

## Who should attend?

Attendees should have at least a basic knowledge of cloud computing, information security.

## **Lecture : Introduction for cloud security**

- Cloud reference model, architectures and security
- Information Security Management System in cloud computing
- Infrastructure security in cloud computing
- Data and Information Security on cloud computing

## **Workshop 1: Estimate and Assess before up to public cloud with case study**

- Scope of migrate traditional system to public cloud
- Risk assessment on public cloud and migrated system
- Design and adopt traditional system to appropriate cloud model and architecture
- Present the solution in class
- Overview EC2 service, model and component

## **Workshop 2 : Build secure public cloud infrastructure**

- Understand IaaS model on EC2
- Create new instance
- Build and secure infrastructure instance
- Secure remote access
- Hardening instance
- Hardening network infrastructure

## **Workshop 3 : Secure Data on cloud**

- Partition and volume encryption
- File encryption
- Secure data on storage as a service model ( i.e. Dropbox, Google drive)

## **Workshop 4 : Identity and Access Management**

- Understand secure IAM with AWS IAM
- Understand federated identity architectures
- Implement federated identity for our application using OpenID



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