



IT Systems: Identity and Access Management



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Meirc
Training & Consulting

Why Attend

We are living in the age of the Internet of Things (IoT) which provides seamless integration and ease of access between various objects regardless of their physical proximity. The IoT is spreading across different vertical domains such as healthcare systems, government services, banks and telecommunications, just to name a few. We are no longer only vulnerable to attacks against valuable enterprises' digital content but also to life threatening attacks, terrorist attacks, espionage attacks, etc. The need for providing identity assurance and stringent access control, as a result, is of utmost importance. This course covers the fundamental principles and architecture framework for an end-to-end IT identity and access management system. This includes identity assurance, authentication, authorization, accountability, auditability, Single Sign-On (SSO) and identity federation. It also discusses practical case studies such as e-passport, mobile banking, e-government services, EMV systems and other selected cases.

Course Methodology

This course is highly interactive and includes group discussions, case studies and syndicate work. It also includes practical exercises and role playing that allow all participants to use the knowledge they gained to demonstrate their skills in identity and access management.

Course Objectives

By the end of the course, participants will be able to:

- Illustrate the identity and access management architecture framework and discuss the security risks associated with its various deployment options
- Discuss the different mechanisms for establishing strong authentication (e.g. OTP, certificate based authentication, device authentication, etc)
- Explain the principles of key public infrastructure and certification authorities, and demonstrate their value in mitigating the security risks facing modern societies
- Explain the most well-known access control mechanisms and the roles of oAuth, OATH, SAML and OpenID standards in the IAM domain and apply the concepts of (federated) SSO
- Demonstrate the building of IAM using selected industrial tools and practical case studies (e.g. e-passport and boarder gate, mobile-banking, EMV scheme, and e-movement services)

Target Audience

This course has been designed for IT professionals such as IT Strategic Planners, Project Managers, Security Managers, Security Architects and Risk Managers. Although the course is technical in nature, complex concepts are discussed at an abstract level to fit the needs of participants from various technical backgrounds.

Target Competencies

- Information security management
- Implementing public key infrastructure
- Identification and authentication management
- Identity Access Management (IAM)

Course Outline

- Introduction and principles of information security:
 - Identity and access management (IAM) overview
 - Attributes of information security:
 - Confidentiality
 - Integrity
 - Availability
 - Non-repudiation
 - Accountability
 - Auditability
 - Symmetric and asymmetric cryptography
 - Hashing and digital signature
 - Key management



- Public Key Infrastructure (PKI)
 - Architecture: certification and registration authority
 - Life cycle management
 - Types of certificates and usage patterns
 - Encryption
 - Digital signature
 - Client certificate
 - SSL server certificate
 - Attribute based certificate
 - Case studies (e.g. email protection, mobile banking, and document signing)
- Identification and authentication
 - Identification, verification and authentication overview
 - Mechanisms of identification and authentication
 - One time password
 - Biometric
 - Digital signature
 - Smartcard
 - Soft/hard tokens
 - Mobile device
 - Risk based authentication
 - Step-up authentication
 - Single-sign on and federated single-sign-on
 - OATH, OpenID, BorwserID, and SAML
 - Architecture framework and industrial tools
 - Trusted computing role in identity assurance
 - Security risks associated with the discussed mechanisms
- Access control
 - Principles of authorization
 - Access control schemes
 - OAuth protocol
 - Enterprise rights management and digital rights management
 - Privileged account management
 - Governance and compliance
- IAM framework and use cases
 - IAM architecture framework
 - IAM echo system
 - IAM and cloud computing
 - Illustrative use cases
 - Border control
 - E-passport
 - National ID
 - E-banking
 - E-health system
 - EMV scheme



Location & Date

8 - 11 Sep, 2019	English	Dubai	Double Tree Hilton – Business Bay Hotel
22 - 25 Dec, 2019	English	Dubai	Voco (IHG) Dubai
31 May - 3 Jun, 2020	English	Dubai	To be assigned
20 - 23 Dec, 2020	English	Dubai	To be assigned

Fees: US\$ (including coffee breaks and a buffet lunch daily)

Per participant - 2019 US\$ 4400



Per participant - 2020 US\$ 4500

Fees + VAT as applicable

UAE Tax Registration Number 100239834300003



Courses in IT Management

Dates	Course Name	Language	Location	Fees
8 - 12 Sep, 2019	Certificate in IT Disaster Recovery Planning 	English	Dubai	US\$ 5200
27 - 30 Oct, 2019	Digital Forensics and Cyber Investigations 	English	Dubai	US\$ 4500
3 - 6 Nov, 2019	Cloud Management and Security: Principles and Best Practice 	English	Dubai	US\$ 4500
17 - 21 Nov, 2019	IT Management Excellence 	English	Dubai	US\$ 4900
1 - 5 Dec, 2019	Certified Cyber Security Specialist 	English	Dubai	US\$ 5200
8 - 12 Dec, 2019	Certificate in IT Disaster Recovery Planning 	English	Dubai	US\$ 5200
23 - 27 Feb, 2020	Certificate in IT Disaster Recovery Planning 	English	Dubai	US\$ 5200
8 - 12 Mar, 2020	Certified Cyber Security Specialist 	English	Dubai	US\$ 5200
22 - 26 Mar, 2020	IT Management Excellence 	English	Dubai	US\$ 5200
12 - 15 Apr, 2020	Cloud Management and Security: Principles and Best Practice 	English	Dubai	US\$ 5200
21 - 25 Jun, 2020	Certificate in IT Disaster Recovery Planning 	English	Dubai	US\$ 5200
12 - 16 Jul, 2020	Certified Cyber Security Specialist 	English	Dubai	US\$ 5200
8 - 12 Nov, 2020	IT Management Excellence 	English	Dubai	US\$ 5200
15 - 19 Nov, 2020	Certificate in IT Disaster Recovery Planning 	English	Dubai	US\$ 5200
6 - 9 Dec, 2020	Cloud Management and Security: Principles and Best Practice 	English	Dubai	US\$ 5200
13 - 17 Dec, 2020	Certified Cyber Security Specialist 	English	Dubai	US\$ 5200



Meirc Timeline

