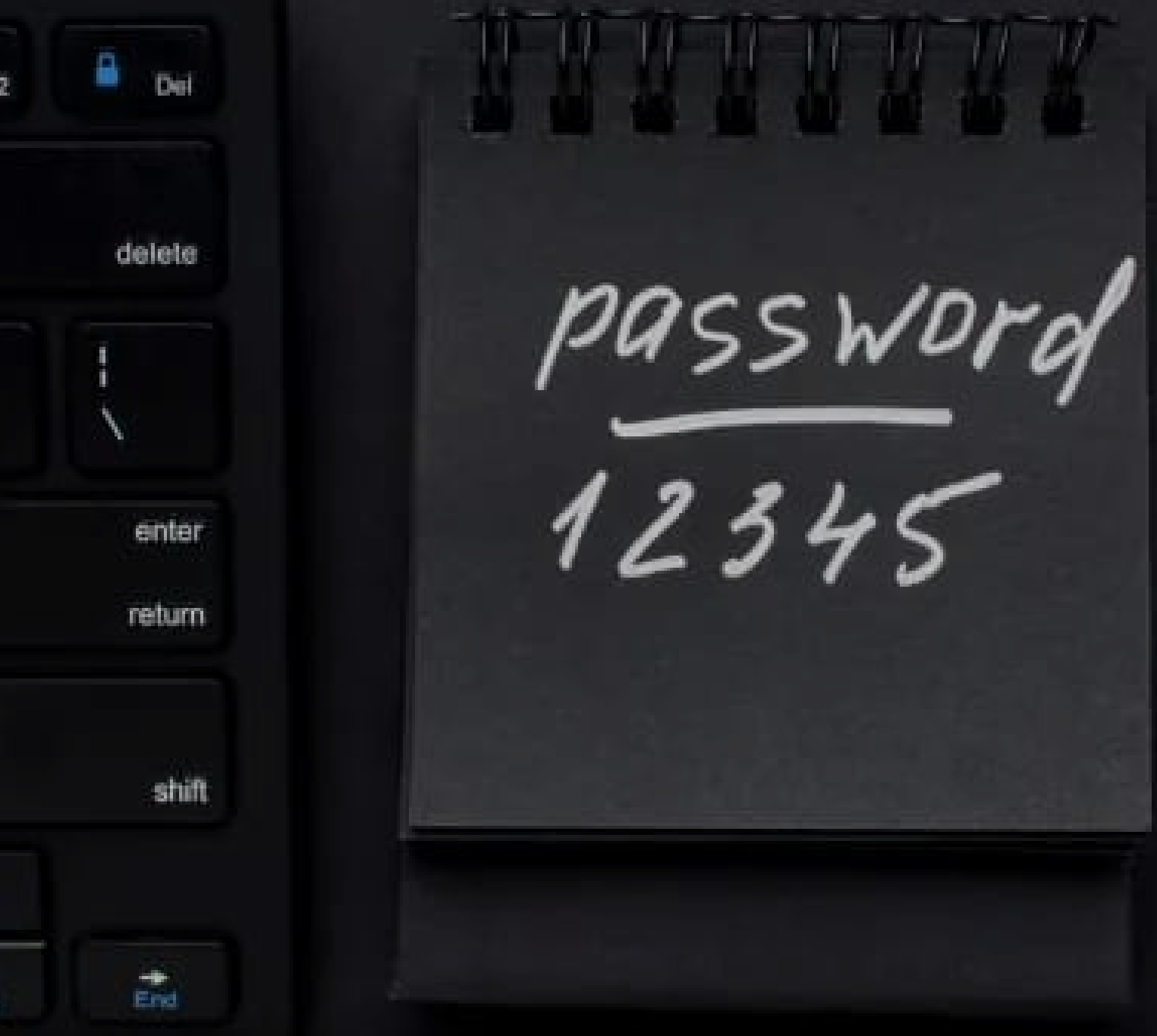




IT MANAGEMENT AND CYBER SECURITY | IMCS-034

Security Architecture and Design Principles

Contact

+31 85 7444446
info@aractech.com
<https://aractech.com>

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

Course content

Why Attend

Security architecture ensures that security is built into systems and infrastructure from the start rather than added later. Good architecture reduces risk and simplifies operations.

This Aractech course covers security architecture frameworks, design principles such as defence in depth and least privilege, reference architectures, identity, network, data and cloud security architecture, architecture reviews and documentation. Participants review and improve a case architecture.

Course Methodology

- Framework presentations
- Architecture review workshops
- Case studies
- Design exercises
- Group discussions

Course Objectives

- Explain security architecture frameworks and principles
- Apply defence in depth and least privilege
- Design identity, network and data security architectures
- Design secure cloud architectures
- Conduct security architecture reviews
- Document architecture decisions

Target Audience

- Security architects
- Solution and enterprise architects

Course content

- Senior security engineers
- IT managers

Course outline

Detailed course outline

Day-by-day outline for Security Architecture and Design Principles.

Day 1 - Security Architecture Foundations

- 09:00-09:34 | Role of security architecture
- 09:34-10:08 | Frameworks
- 10:08-10:42 | Principles
- 10:42-11:00 | Risk-driven design
- 11:00-11:30 | Coffee break
- 11:30-12:19 | Risk-driven design (continued)
- 12:19-12:53 | Stakeholders
- 12:53-14:00 | Exercise: Architecture principles

Day 2 - Identity and Access Architecture

- 09:00-09:45 | Identity architecture
- 09:45-10:30 | Federation
- 10:30-11:00 | Privileged access
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Privileged access (continued)
- 11:45-12:30 | Zero trust concepts
- 12:30-14:00 | Exercise: Identity design

Course outline

Detailed course outline

Day-by-day outline for Security Architecture and Design Principles.

Day 3 - Network and Data Architecture

- 09:00-09:39 | Segmentation
- 09:39-10:18 | Secure connectivity
- 10:18-10:57 | Data classification
- 10:57-11:00 | Encryption and keys
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Encryption and keys (continued)
- 12:05-12:43 | Data loss prevention
- 12:43-14:00 | Workshop: Data protection design

Day 4 - Cloud and Application Architecture

- 09:00-09:30 | Cloud security patterns
- 09:30-10:00 | Shared responsibility
- 10:00-11:00 | Application architecture
- 11:00-11:30 | Coffee break
- 11:30-12:00 | APIs
- 12:00-13:00 | Case study: Cloud architecture review
- 13:00-14:00 | Exercise: Cloud design

Course outline

Detailed course outline

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Day 5 - Architecture Governance

- 09:00-09:45 | Architecture reviews
- 09:45-10:30 | Decision records
- 10:30-11:00 | Standards
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Standards (continued)
- 11:45-12:30 | Roadmaps
- 12:30-13:15 | Measuring effectiveness
- 13:15-14:00 | Capstone: Architecture review report

Seminar dates

Available seminar dates

Live dates and pricing for Security Architecture and Design Principles generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Rome	Classroom	€3,460
21 - 25 December 2026	Kuala lumpur	Classroom	€1,925
18 - 22 January 2027	Dubai	Classroom	€1,845
15 - 19 February 2027	Istanbul	Classroom	€1,978
15 - 19 March 2027	Rome	Classroom	€3,460
19 - 23 April 2027	Istanbul	Classroom	€1,978
17 - 21 May 2027	Vienna	Classroom	€3,225
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	Rome	Classroom	€3,460
16 - 20 August 2027	Kuala lumpur	Classroom	€1,925

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