PKI TRAINING

Upgrade Your Public Key Infrastructure (PKI) Skills with Training from Encryption Consulting LLC

Class Audience ›› Beginners | Intermediate | Advanced

About The Course

Planning a Public Key Infrastructure (PKI) can have a significant skill ceiling, as an organization's authentication, encryption, and digital signing can depend on how the PKI is built. An organization needs a robust and secure PKI infrastructure to ensure security, privacy, and regulation compliance. Creating and managing a PKI requires ample knowledge, which Encryption Consulting brings along with the experience needed for organizations to have a custom solution for their needs.

Customers will learn how to deploy or design PKI solutions in the enterprise in our three days of PKI training delivered online, in-person training focusing on Microsoft Active Directory Certificate Service (ADCS) training. You will learn how to build a PKI on Windows Server 2019, focusing on areas such as integration with HSM, Two-tier PKI, Cloud PKI, and more.

A Hands-On Learning Experience

Our training offers hands-on labs, which provide practical opportunities to implement the concepts andskills you are learning. These labs are an important component of the learning experience, allowing you to apply theoretical knowledge in real-world scenarios and thereby enhance your understanding and retention of the material.

There is a strong emphasis on the following

- PKI Governance
- PKI Design Best Practices
- Certificate Lifecycle Management Process
- PKI Operations
- Hands-on Labs
- Real World Examples

Certificate of Completion

Every student who attends and completes the full training, scoring 70% in the General-purpose PKI exam, will receive a certificate of completion. The certificate will allow the student to qualify for ISC2 continuing education credit for annual CPE commitments. Every student who attends and completes the full training, scoring 70% in the PKI exam, will receive a certificate of completion. The certificate will allow students to qualify for ISC2 continuing education credit for annual CPE commitments.

Why Attend Our PKI Training?

Expert Guidance: Learn from professionals with 20+ years of consultation experience in AD CS and learn from their hands-on expertise from various industries.

Hands-on Learning: Gain practical knowledge through interactive labs and exercises, ensuring you grasp each concept thoroughly.

Tailored Experience: We offer customizable training dates for groups of three or more to align with your team's schedule and specific learning goals.

Course Breakdown

Module 01: Introduction to PKI

- Module 01 Introduction
- Introduction to Cryptography
- Encryption
- Hash Functions and Digital Signatures

Module 02: Certificate Revocation and Chain Building

- Module 02 Introduction
- Certificate Revocation and Chain Building
- Designing and Configuring CDP Locations
- Revocation Cache
- OCSP
- Troubleshooting Revocation
- Module Recap

Module 03: Deploy a Two-tier Hierarchy

- ◉ Pre-Installation Tasks (Two-Tier CA Hierarchy)
- ◉ Standalone and Offline Root CA
- ◉ Demo 01_ Root CA Install
- ◉ Subordinate Issuing CA
- ◉ Demo 02_ Subordinate CA Installation
- ◉ Certification Authority Security
- ◉ Module Review

Module 04: Certificate Templates and Enrollment Methods

- ◉ Certificate Templates Terminology
- ◉ Certificate Enrollment
- ◉ Certificate Enrollment Strategy
- ◉ Module Review

Module 05: Enhancements in Windows Server 2022

- ◉ Introduction
- ◉ ADCS Site Awareness
- ◉ IDN & CLM
- ◉ Key Based Renewal
- ◉ Module Review

Module 06: Maintenance and Availability Operations

- ◉ CA Maintenance
- ◉ CRL Maintenance
- ◉ Exit Modules
- ◉ CA Monitoring
- ◉ Documentation and Processes
- ◉ Module Review

Module 07: Cloud PKI Hierarchy

- ◉ Integration of PKI With Cloud Providers
- ◉ Microsoft Cloud PKI
- ◉ Cloud-based HSMs
- ◉ CDP AIA Extensions in Cloud & Module
- ◉ Module Review

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PKI
Training

What Our Students Say

Fantastic training for anyone looking to elevate and/or reduce knowledge gaps in the PKI space.

Simon Iokhvidson
AVM L.P. (Network Security and Infrastructure)

I took the PKI training course as a refresher for myself and as a training resource for my junior engineers. The course provided valuable insights and helpful information for all levels of PKI expertise. I highly recommend this training to organizations who are interested in upskilling their in-house engineers to better manage their public key infrastructures.

Michael Audu
BlueCross BlueShield (Principal Cybersecurity Engineer)