PKI SOLUTIONS

MICROSOFT CERTIFICATE SERVICES
In-depth training for Windows Server 2016 ADCS

COMPREHENSIVE

The ability to design and manage a Public Key Infrastructure (PKI) is highly dependent on the skills and knowledge of those managing it. This course is a deep-dive into Microsoft Active Directory Certificate Services (ADCS) and focuses on building knowledge and skills with all of its features. There is a strong emphasis on security, best practices, and hands-on skills labs. This is the most up-to-date ADCS training available that includes Windows Server 2016.

EXTENDED TO 5 DAYS OF TRAINING BY POPULAR DEMAND

HANDS-ON

Over the 5 days of training you will not only learn new skills and techniques, you will also put them to use during the course. The hands-on labs are designed to reinforce the material and keep you engaged the whole time.

A POORLY DESIGNED, EXECUTED OR MANAGED PKI CAN INTRODUCE MORE SECURITY ISSUES THAN IT SOLVES.

Onsite and Open-Enrollment Deliveries Available

Course Scope

- Best Practices
- Design and Install
- Management
- Hands–On Labs
- 2012/2016 Features
- Under the Cover Tools and Diagnostics

COURSE OUTLINE

PKI Components

How does PKI Work

Digital Certificates

    Templates

    Auto-Enrollment

    Template changes in 2008, 2008 R2, 2012 and 2016

CA Design

Cryptographic providers and Crypto Next Generation

CA Chains and Revocation

    Revocation Mechanisms

    Chaining Algorithms and multiple paths

Manual Enrollment Options

    HTTP & MMC

Best Practices for Microsoft PKI

    Security vs Compatibility

Hardware Security Modules

OCSP

Certificate Enrollment Web Service (CES/CEP)

High Availability CAs

Upgrading and Migrating CAs between Hosts

Known issues with ADCS Configurations

How to Troubleshoot a CA

Advanced ADCS Debug Logging

Exploring and Defining the Key Windows Registry Keys for ADCS

Certutil and its Hidden Commands

Availability

This course is available for on-site delivery at your organization or as part of an open-enrollment workshop in locations around the world. Onsite deliveries offer the ability to customize the agenda as well as defining specific areas where additional emphasis is desired. Open-enrollment workshops provide flexibility for customers needing only a few individuals trained. They also offer the opportunity to network with other security conscience PKI organizations in your area. All of the logistics and planning are handled by PKI Solutions, you just need to show-up and learn!

Certificate of Completion

Every student that attends and completes the full week of training will receive a Certificate of Completion. The certificate indicates the student is a PKI Solutions ADCS PKI Specialist for Windows Server 2016. Perfect for framing or providing as proof of course completion towards professional advancement goals. In addition, the course qualifies for ISC2 Continuing Education Credit for annual CPE commitments.

The Instructor

Mark B. Cooper, President and Founder of PKI Solutions Inc., is a former Microsoft Senior Engineer and subject matter expert for Microsoft Active Directory Certificate Services (ADCS). Known as "The PKI Guy" at Microsoft for 10 years, he traveled around the world supporting PKI environments for Microsoft's largest customers. He focused on supporting security solutions for Fortune 500 companies and acted as their Trusted Advisor in all things related to PKI. He has worked with customers in the Financial, Manufacturing, Technology, Transportation, and Energy sectors as well as many levels of state and federal governments. Upon leaving Microsoft, Mark founded PKI Solutions Inc. and now focuses on providing PKI consulting services.

Expertise

- Design, security, policy, deployment and management of PKI solutions

- Fault-tolerant and clustered PKI implementations

- Mobile device / Bring Your Own Device (BYOD) security solutions

- 3rd Party OS integration with Windows PKI – iOS, Unix, Linux, Macintosh

- Hardware Security Module (HSM) integration, security controls and chain-of-custody

- HSPD-12 CAC / PIV deployment, AD integration and compliance

- Created the Microsoft PKI Health Check to analyze the design and security of PKI deployments

- Conceived and compiled Microsoft's consolidated set of PKI best practices