

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

Newly Updated for Windows Server 2012 R2

ADCS has continued to evolve and improve over the years. The newest features in Server 2012 R2 are often unknown and unutilized.

Reviews

“My PKI re-deployment definitely wouldn't have been successful without the knowledge and tools I gained this week. Your class should definitely be required for anyone attempting ADCS.”

– Matt Walker

“I was so amazed you could answer all the questions in class! this is the very first class I didn't hear “this is not in the topic” or “let me get back to you later!”

– Benjamin Kwok

“In general, ADCS is one of the more complex Microsoft technologies to implement and while the initial setup can be challenging enough, the real test is how well it continues to function for the duration of its existence. With that in mind, I would definitely recommend the course to anyone intending to use PKI in their environment or to offer services in PKI consulting.”

– David Machula

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

Deep Dive

Designed by a former Microsoft Senior Engineer. In this course you’ll learn about advanced topics not available anywhere else

Consulting and Support

Ask us about our Consulting and PKI Support services for your organization

Contact Us

Give us a call for more information about our services and products.

PKI
SOLUTIONS

+1 (971) 231-5523

info@pkisolutions.com

www.pkisolutions.com