

ADVANCED MICROSOFT PKI TRAINING

Expert Level Training for Windows Server 2012 R2 ADCS

HANDS-ON LEARNING

This 5 day advanced PKI class focuses on hand-on labs and topics that build on existing Microsoft Active Directory Certificate Services (ADCS) and PKI knowledge of the student. Students will spend the majority of the class working on real-life scenarios ranging from deploying enrollment services, real-time OCSP revocation checking, SHA1 to SHA2 migrations, disaster recovery scenarios, certificate reporting and CA database management. Advanced topics including Code Signing, key-pair file management and enrollment agents will also be covered.

***THE MOST ADVANCED
AND CURRENT ADCS
TRAINING AVAILABLE
FOR WINDOWS
SERVER 2012 R2 PKI***

ADVANCED TRAINING

Students will be expected to have existing experience and training with Microsoft ADCS prior to attending the course. It is highly recommended to attend the PKI In-Depth class prior to attending this course. Students that have not attended the In-Depth class may be asked to demonstrate their knowledge prior to acceptance into the course.



Private Onsite and Open-Enrollment Deliveries Available

Course Scope

- Network Device Enrollment Service
- Real-time OCSP revocation checking
- SHA1 to SHA2 Migrations
- Disaster Recovery
- Reporting and Alerts

Advanced PKI Training with Extensive Hands-on Labs

Feedback From Past Students

"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

Network Device Enrollment Service

Certificate Authority Web Enrollment

Disaster Recovery

- Scripting CA Backups

- Manual Recovery of Issued Certificates

- Authoritative AD Restore of ADCS components

SHA1 to SHA2 migrations

- Partial, Full, and Cross-Signed Migrations

- Migrating Legacy CSP Keys to Key Storage Provider

Hacking OCSP for Near Real-time Revocation Details

- Managing Caching Behavior

- Calculating the OCSP Magic Number in Your Environment

- Deterministic Results and Multi Certificate Queries

Certificate Services Reporting

- CA Database Schema and Queries

- Custom Reporting and Alerting

- Powershell and Certutil cmdlets

Database Cleanup and Defragmentation

- Pruning CA Database to Manage Size

- Defragmentation and Database Whitespace Management

Key Recovery

- Template and Security Requirements

- KRA Best Practices and Key Controls

Key Pair Files and Templates

- Managing and Repairing Keys

Code Signing

- Creating and Issuing Code Signing Certificates

- Time Stamping

Restricted Enrollment Agents

Policy CAs

- Enforcing Issuance Restrictions

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 Excellence. The certificate indicates the student is a PKI Solutions Advanced PKI Specialist for Windows Server 2012 R2. 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

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.

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