

SECURING MICROSOFT ADCS

Deploying and Using HSMs for Certificate Services

SECURING YOUR PKI

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 focuses on deploying Thales nCipher HSMs to secure Microsoft Active Directory Certificate Services. It focuses on the three signing roles available with ADCS — Certificate Authorities, OCSP Responders and NDES enrollment servers. There is a strong emphasis on security, operational controls, availability and hands-on skills labs. The course is designed for Windows Server 2016.

HANDS-ON

Over the two 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.

***TWO DAYS OF HANDS
ON TRAINING LABS
AND IN-DEPTH
TRAINING***

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



Course Scope

- Best Practices
- Design and Install
- Management
- Hands-On Labs
- Under the Cover Tools and Diagnostics

Newly updated for Windows Server 2016

ADCS has continued to evolve and improve over the years. The newest features in Server 2016 are often unknown and unutilized.

COURSE OUTLINE

- Microsoft CAPI and Crypto Next Generation
- Certificate Services and HSMs
- Deployment scenarios
- Key management practices
- Troubleshooting CA issues
- Advanced diagnostic logs
- ADCS configuration details
- Windows and nCipher tools
- Managing security worlds
- Migrations and recovery

HANDS-ON LABS

- nCipher Install for ADCS
- ADCS Install with nCipher Suite
- OCSP Install and Configuration
- NDES Install and Configuration
- HSM Troubleshooting and Diagnostic Logs
- Certificate Authority Key Renewals

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 Thales HSM & Microsoft ADCS Specialist. 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.

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