training code: PKI / ENG DL 3d / EN

Introduction to Microsoft PKI in Windows Server 2019/2022/2025

Training recipients

The training is addressed to IT administrators who are responsible for iCT system security

Benefits

Gaining knowledge and practical skills of installing and configuring Public Key Infrastructure services in Windows Server 2019/2022

Training program

1. Introduction to Public Key Infrastructure (PKI)
   - Coding
   - Digital certificates
   - Public and Private Certification Authorities
2. Planning PKI services
   - Microsoft AD CS (Active Directory Domain Services)
   - Infrastructure elements
   - HSM – Hardware Security Modules
3. Installing and configuring domain environment
   - Hyper-V virtualization
   - Domain controllers
   - Workstations
   - Servers for PKI services
4. Root CA Server (Root Certification Authority)

- Configuring AD CS role – Certification Authority (CA – CA Authority)
- Planning Root CA server security
- Distributing Root Certification Authority Certificate
- CRL – Certificate Revocation Lists

5. Subordinate CA Servers (Subordinate Certification Authorities)

- Configuring the AD CS role –Certification Authority
- Distributing certificates for Subordinate Certification Authorities
- CRL – Certificate Revocation Lists

6. Certificate templates

- KRA – Key Recovery Agent
- Windows Admin Center
- Microsoft Identity Manager 2016
- Microsoft Server Backup
- Microsoft Azure Key Vault

Expected preparation of the participant

- Practical knowledge of Windows system (server and client) on system administrator level, basics of virtualization. Working on operational systems in English version.
- For increasing the convenience of work and training effectiveness we recommend using additional screen. Having no extra screen does not exclude participation in the training, however, it significantly influences the convenience of work at the course.
- The information and requirements concerning participation in Distance Learning trainings are available at: https://www.altkomakademia.pl/en/how-it-works/about-courses/

Duration

3 days / 21 hours

Language

- **Training**: English
- **Materials**: English