

Primus HSM CNG/KSP Provider Training

Setup & Usage of CNG/KSP Provider

Description

The course is a “hands-on” workshop and covers the basics of installing, configuring and integrating the Securosys CNG Key Storage Provider to connect to the Primus HSM or CloudsHSM Service and perform cryptographic operations.

Contents

- Introduction, architecture overview
 - Microsoft Cryptographic APIs, CNG/KSP, documentation
- Initial provider installation (GUI, command-line, MSI/AD GPO)
- Basic provider configuration and connectivity test
 - Configuration editor, fetching permanent secret
 - Basic test tools (ksputilcons, certutil, certmgr/certlm), logs
- Advanced provider topics
 - Redundant HSM clusters and load balancing
 - Multiple provider instances
 - Key scope and accessibility
 - Provider update
- Intro application landscape (AD CS, MS SQL, IIS, signtool, ...)

Details

Audience: Application engineers, HSM integrators, Consultants, Technical Pre-Sales

Prerequisites: Microsoft Windows knowledge (Server, AD GPO, SID, certutil/certmgr)
Basic knowledge of MS CNG API
Conceptual knowledge of Primus HSM (Operator training recommended)

Duration: 2 hours

Language: English, German (documents and online content in English)

Participants: Up to 6 (on-site/online)

Location: Classroom (Securosys SA in Zürich, Switzerland) or
Webinar (teacher-based, see remote training preparations below)

Remote Training Preparations

Due to the high practical focus of the training, it is necessary that the participants have access to Primus HSM partitions in the cloud or on-premise with enabled CNG API.

Please make sure that you have the following infrastructure, setup, documentation and software ready **before the training starts**:

- Two (2) configured user partitions on Primus HSM (cluster) on-premises or CloudsHSM. For training purposes Securosys may provide temporary access to Training/Developer HSMs, reachable over the Internet
 - CNG license installed, and CNG API enabled on these partitions
 - Key Invalidation disabled on these partitions
- HSM connection details and credentials: DNS/IP, Port, User names, and valid Setup Passwords (Note: Setup Password has limited lifetime!)
- Laptop/PC with Windows 10 and your favorite text editor (e.g. Notepad++)
 - Credentials for Administrator access/elevation to install software
 - Zoom Client App installed for web-conference (presentations, remote control) <https://zoom.us/download>
 - Headset or audio input-/output-device for Zoom conference
- Stable Network/Internet connection (2Mbps+) and access:
 - for Zoom conference
 - to Securosys Support Portal, <https://support.securossys.ch> (User Guide, Application Notes and Provider software)
 - to your HSMs, CloudsHSM or Securosys remote Training/Developer HSMs
- Download from Securosys Support Portal latest versions of:
 - CNG/KSP Provider User Guide: PrimusHSM_CNG-Provider_UG-Enn.pdf
 - MS CNG/KSP Provider Software: PrimusAPI_CNG-KSP_v1.4x.xp.zip

Approx. 3 days before the training Securosys will provide the Zoom web-conference link (and connection details to remote Training HSMs).

Please verify that your infrastructure is working properly before the training.