

INTERNSHIP

MidPoint connector development

Description of the assignment

The central role of Identity Governance & Administration (IGA) in an organization's cybersecurity strategy cannot be overstated. As organizations navigate complex digital landscapes, the need for a coherent, identity-centric approach to cybersecurity becomes essential. Acen is a dedicated partner in guiding and supporting organizations on this journey, ensuring that solid Identity Governance & Administration forms the cornerstone of their cybersecurity strategy.

Identity Governance & Administration solutions need to be able to communicate with a multitude of other systems, hereafter referred to as "targets." These other systems are SaaS solutions, on-premise IT software, commercial and custom developed. Communication with the targets takes place via so-called "connectors." A connector is specialized software that retrieves data from targets, via REST, LDAP, database, or other protocols. Connectors add, modify, and delete account and entitlement data at the targets.

All IGA solutions have an extensive range of connectors available. However, in every Acen project we inevitably encounter a target for which no connector yet exists, or for which the provided connector lacks a specific piece of functionality. That is why, as Acen, we also focus on in-house developing custom connectors tailored to the client's needs.

Objectives

At the end of your internship assignment, we expect to have a fully functioning IGA connector:

- developed according to the functional requirements of the project and the technical specifications of the IGA solution
- with the ability to read, add, modify, and delete account and entitlement data from the target
- equipped with working functional, security, and technical tests that demonstrate the quality of the connector code

- sufficiently documented so that our development and integration specialists can immediately use it in our integration projects

Depending on how the internship progresses and any new insights gained along the way, the assignment can be expanded in consultation.

Technologies & concepts involved

✓	MidPoint	✓	Keycloak
✓	ConnId framework	✓	REST API
✓	Java	✓	Identity Governance & Administration
✓	Open Source	✓	Software integration

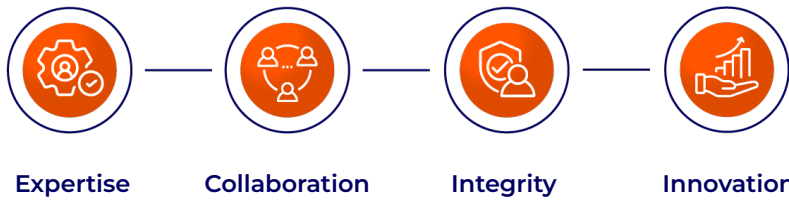
The IGA solution of choice is MidPoint, an open source Java based software developed by Evolveum, a European company. The project will start with a self-paced introductory course on MidPoint, resulting in a certificate of completion. Connector development for MidPoint is based on the ConnId framework, also an open source Java based project aimed at creating an interoperable connector framework for IGA solutions.

Interns will first be tasked to recreate and improve the existing - REST API based - Keycloak connector for MidPoint, having an opportunity to learn connector development while able to reference a real world example. Next, a business relevant REST API based target software will be chosen in consultation with the intern(s) for developing an entirely new connector.

Project Methodology

For its projects, Acen uses agile project methodologies such as pair programming and Scrum. This project is no exception to this. These methodologies place the quality of software solutions at the center. This is achieved by dividing the project into shorter iterations resulting in quicker feedback loops. This intensive communication - inherent to agile - ensures high-quality internship supervision.

Profile



The ideal intern is first and foremost motivated to improve their skills and learn about a new field of technology.

Basic understanding of object oriented programming, client-server architecture and REST APIs is required. Working experience with Java is a plus.

The ideal intern has a basic understanding of information security principles in networked environments, works well in teams and demonstrates great communication skills.

Contact details

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