Link to 2022 ACAMP Wiki

Advance CAMP Thu. Dec. 8, 2022

Room - 5

Session Title: Accelerating Development of Midpoint Connectors - Plaza Court 5

The Base Connector Framework is an open source CONNID based abstraction layer that allows developers to easily create Midpoint Resource Connectors for systems that are not yet supported or that need customization. The framework provides lots of shortcuts that let you focus on the data you want to work with.

CONVENER: Stephen Fox

MAIN SCRIBE(S): Chris Hubing

ADDITIONAL Information:

Here is a copy of the presentation

□ I2 Base Connector Presentation

of ATTENDEES: 28

- ProvisionIAM has been working with CONNID framework for several years, but found they were rewriting similar code, so wrote a reusable base connector
- Lots of existing connectors, but there are thousands of specific APIs for other software
- CONNID can be complicated, and time consuming for newbies
- Other challenges for midpoint connectors:
 - Richard from NDSU: existing legacy "weird" integrations, campus would have to change
- Base connector abstraction can be extended to support:
 - Configuration helper
 - built in AuthN
 - Midpoint Object Schema
 - o CRUD ops

- Endpoint service data model
- Invocators interface with service endpoints
 - The actual workers, does the call and gets the data
- Built-in REST support
- Look at ExclamationLabs org on Github
 - https://github.com/ExclamationLabs/connector-base
- Example of configuration for a connector, Zoom
 - YAML format
 - Includes information about the service including name, authentication method, etc.
 - This helps the configuration UI collect information about the Zoom connector: service URL. API tokens
 - Supports both inbound and outbound
 - Becomes a shadow object for the user in midpoint, could be configured to update user info
- Base Adaptor Extension
 - Enums to define attribute names
- Invocator is responsible for the CRUD operations
 - Zoom driver has user and group invocators
- Authenticators
 - Many are built-in
 - Zoom uses jwtHs256
- Use the Zoom connector as a good starting point
 - https://github.com/ExclamationLabs/connector-zoom
- Use the following specific branch to clone and start working on your connector:
 - https://github.com/ExclamationLabs/connector-zoom/tree/2022/11/FIN-9902_ope n source artifact
 - o git clone -b 2022/11/FIN-9902_open_source_artifact https://github.com/ExclamationLabs/connector-zoom.git

- Questions:
 - UNC Chapel Hill: Do you return all users from Zoom?
 - Yes, by default, but can add a filter or customize
 - Deep Get functionality?
- <u>Info@provisioniam.com</u> for questions
- Documentation will get better over the next few months