

Evolveum

What's New in MidPoint 4.2 “Maxwell”

Katarína Bolemant
November 2020

Agenda



- What's new in 4.2
- Maintainability
- Plans for 4.3
- Plans for 4.4/5.0

MidPoint 4.2 “Maxwell” at a Glance

- Feature release

 - short support lifetime (1 year)

- Couple of major features

 - Native reports (no more Jasper)

 - Linked objects

- Plenty of smaller features and improvements

 - Audit log, archetypes, GUI, auto-assignments, multi-accounts, resource maintenance mode, axiom

- Internal improvements (code cleanup/speedup)

Reports

- Native mechanism without Jasper framework
- Reports based on
 - Object Collections
 - Dashboards

Reports

midPoint System Status Dashboard Dashboards > System Status Dashboard administrator

SELF SERVICE

- Home
- Profile
- Credentials
- Request a role

ADMINISTRATION

- Dashboards**
 - Info dashboard
 - Admin dashboard
 - System Status Dashboard
- Users

100 % up
Resources up [More info](#)

11,1 % failed
Recent errors [More info](#)

runnable
Cleanup [More info](#)

Reports

Widgets

Report generated on: Monday, 4. May 2020 12:26:35

Number of records: 1

Label	Number	Status
Resource R1; ACCOUNT	19 shadows	

Resource R1; ACCOUNT

Report generated on: Monday, 4. May 2020 12:26:35

Number of records: 19

Name	Kind	Intent	Synchronization
001212	default	Account	Linked
000090	default	Account	Linked
001049	default	Account	Linked
000045	default	Account	Linked
000021	default	Account	Linked
000089	default	Account	Linked
000005	default	Account	Linked
000035	default	Account	Linked
000078	default	Account	Linked
000002	default	Account	Linked

Reports

- Native mechanism without Jasper framework
- Reports based on
 - Object Collections
 - Dashboards
- Two export formats
 - CSV
 - HTML

Linked objects

- Problem

 - After deleting parent organization, invalid reference is kept in its children

 - After role definition was changed, members were not recomputed (automatically)

- Policy rules

 - Synchronous processing

 - Asynchronous processing

 - Delayed processing

Smaller Features and Improvements

- Archetypes: multiple archetypes
- Audit subsystem based on midPoint query language
- Audit and repository decoupling
- Resource maintenance mode
- Outbound support for multi-accounts
- Auto-assignment improvements: restriction to given focus type
- Search bar UX
- Different GUI improvements: columns selection for exports, shopping cart
- ...

Deprecation and Removals

- Reports based on Jasper are deprecated
- Support for SOAP services was removed
- Using SQL/HQL for audit log queries/dashboards is deprecated
- .NET remote connector server is no longer supported
- Spring Security modules are no longer available
- JasperSoft Studio plugin for midPoint is no longer available

Maintainability

- Java 11

 - Java 8 not supported any more

- Stand-alone deployment

 - Explicit deployment to Tomcat is deprecated

- PostgreSQL is **strongly** recommended

 - Support for MySQL and MariaDB is deprecated

- Microsoft Internet Explorer is deprecated

- Apache Tomcat 8.5 is no longer supported

Future of MidPoint Database Support

- PostgreSQL is the future

PostgreSQL is **strongly recommended** for all new deployments.

MySQL/MariaDB support is deprecated.

Oracle and MS SQL support is likely to be deprecated later.

- Why are we doing this?

Provide better performance and (much) better scalability.

Ability to take advantage database-specific features.

Gain control of database schema (e.g. extension properties as native columns)

Keep maintenance cost reasonable.

(testing 5 database engines in 3 different versions is very expensive)

Interesting Experimental Features in 4.2

- Reverse reports
- MidPoint Studio
- MidPrivacy: Data provenance prototype
- Axiom

MidPoint Studio

- Eclipse → IntelliJ IDEA

 - Eclipse was problematic all the time

 - IntelliJ IDEA is so much more convenient

 - IntelliJ IDEA Community Edition is an open source project (!)

- MidPoint Studio beta-quality released

 - Nice selection of interesting features

 - Very limited testing

 - Still not officially supported

 - Official support planned for midPoint 4.3-4.4

MidPrivacy: Data Provenance Prototype


- Data provenance:
 - Where did the data come from?
- Transparency and accountability: foundation for data protection
- Maintaining meta-data for every *value*
- Enhanced model with metadata schema capability
 - => Axiom
 - => provenance metadata schema in Axiom
- Visibility, accountability: foundation for data protection
- Funding: NGI_TRUST



MidPrivacy: Data Provenance Prototype


Full name ⓘ

Leonhard Euler

assurance transformation provenance

 Assurance metadata

 Admin data entry +  Self service app ▶

 HR employee feed ▶

ollapse all properties

MidPrivacy: Data Provenance Prototype

Full name ⓘ

Peter Brave



provenance



Provenance metadata

This value originated from



Midprivacy HR system



Value is a combination of values coming from following sources

Acquisition details

Origin ⓘ

HR feed

Resource

Midprivacy HR system



Actor ⓘ

midPoint Administrator

Channel ⓘ

import

Acquired at

Wednesday, September 2, 2020, 4:06:39 PM



Mapping specification

Defined in:

Global user template

Mapping: *

Full name mapping

*) Usual disclaimers apply. These are just plans, they can change any time.

Plan for MidPoint 4.3

- Feature release
- Planned release: spring 2021
- Focus
 - Performance and scalability
 - GUI improvements

MidScale: MidPoint Scalability

- Target: tens of millions identities
- New repo implementation based on PostgreSQL
- Cluster mechanism improvements
- Performance improvements
- GUI stabilization and speed-up

*) Usual disclaimers apply. These are just plans, they can change any time.

MidPoint 4.3 Features

- ActiveMQ support for outbound
- GUI
 - Audit log viewer
 - Search improvements
 - Self-service credentials
- MidScale:
 - Query language
 - DB Schema (PostgreSQL)
 - Task Improvements, mainly for visibility and manageability
 - Schrodinger

*) Usual disclaimers apply. These are just plans, they can change any time.

Future of MidPoint

- MidPoint 4.4 LTS (autumn 2021)

Supported (at least) until 2024

midScale

MidPoint Studio

JasperReports replaced with native implementation

- MidPoint 5.0 (after 2022, specific release date not known yet)

Next generation schema support (XSD → Axiom)

Stabilization for longevity and maintainability (Prism API, GUI API)

Separate end-user GUI

Plan is still quite fuzzy, gathering input

The Future?

- These are sad and difficult times
- Evolveum tries to operate normally
 - Working from home since the start of pandemics
 - Employees at full salaries, no layoffs planned
 - Some financial reserves
- Loyalty and patience are greatly appreciated
 - People are our priority (maintaining full midPoint team through the crisis)
 - Income from midPoint subscriptions is essential to sustain the team
 - Please, purchase/prolong midPoint subscription if you can

Discussion

Thank you for your time

See other talks at <https://docs.evolveum.com/talks>

Also **follow us** on our social media for further information!



/Evolveum



/Evolveum



/Evolveum



@Evolveum



/Evolveum

Evolveum