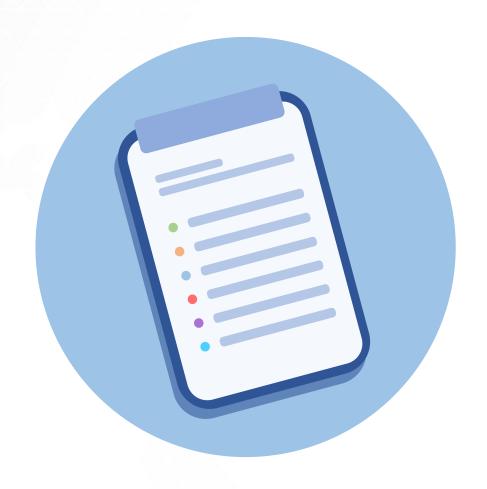
Evolveum

What's New in MidPoint 4.2 "Maxwell"

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

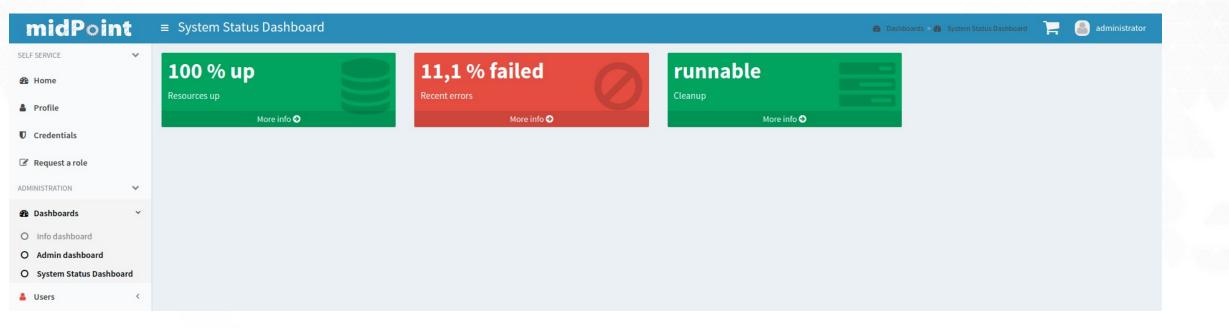
Audit log, archetypes, GUI, auto-assignments, multi-accounts, resource maintenance mode, axiom

Internal improvements (code cleanup/speedup)



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







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



- 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

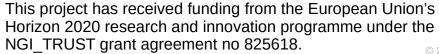
Data provenance:

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



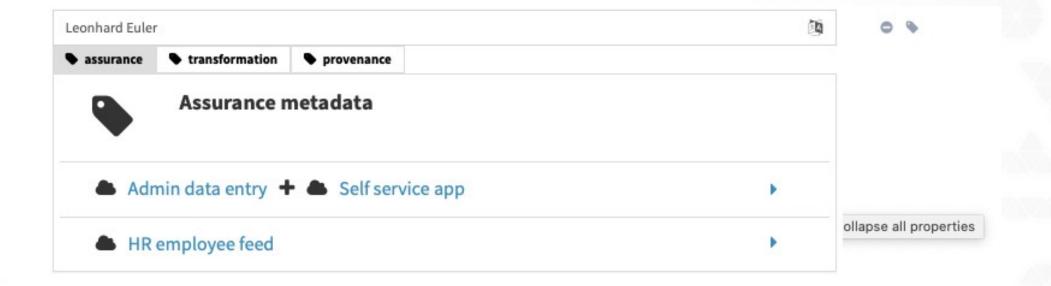






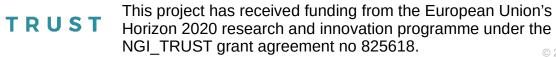
MidPrivacy: Data Provenance Prototype

Full name 🐧





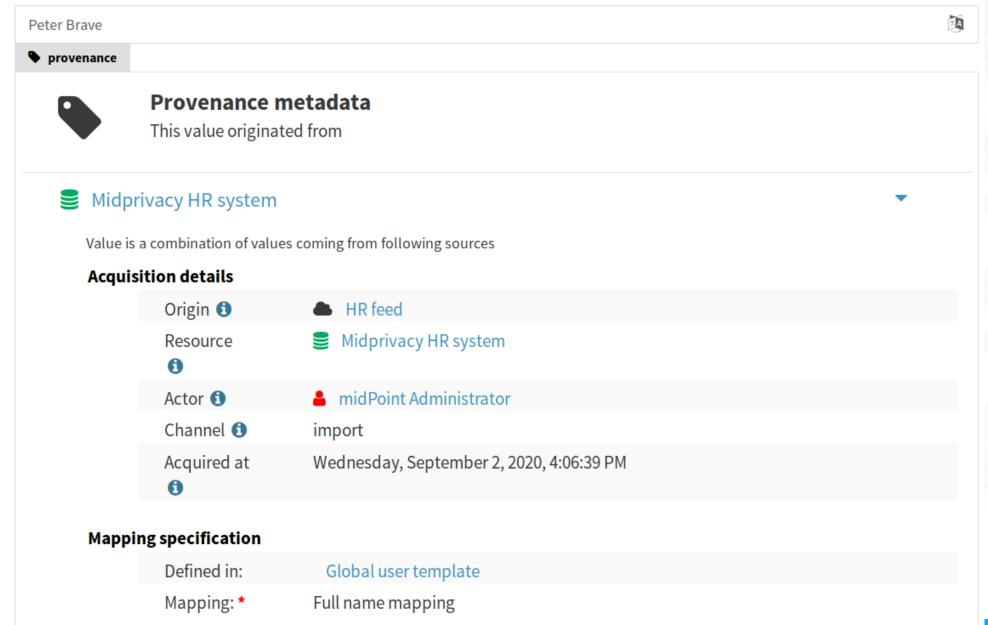






MidPrivacy: Data Provenance Prototype

Full name 1



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







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



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!











