Evolveum

What's New in MidPoint 4.8

**Katarína Bolemant, November 2023**

Development Team Leader

Agenda

- New support model

- What's new in midPoint 4.8

- Changes since midPoint 4.4

- Deprecations, removals and incompatible changes

- A future

  - A plan for 4.9
  - A timeline
  - Webinars
  - …

Evolveum

New Support Model

- Feature releases ~~1~~ 2 year**s** of support
  - No possibility for extended support
- LTS releases ~~3~~ 5 years of support
  - Possibility for extended support +3 years
  - Possibility for vintage support +2 years
  - => up to 10 years of support
- LTS released every 4th year
  - Next LTS in 2027
- New support model applicable since version 4.8

Evolveum
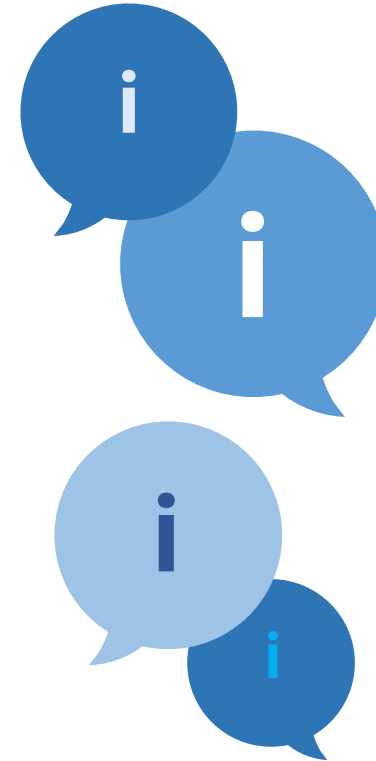
MidPoint 4.8 "Curie" at a Glance

- LTS release (5 years support)

- New features

  - Role Mining
  - Identity Recovery

- Improvements

  - Security-related Improvements
  - Streamline Upgrades
  - First steps methodology

Evolveum

Role Mining

- AI/ML powered functionality for mining roles based on the existing data in midPoint

  - Analyzing existing assignments to application roles
  - Detection based on data clustering, pattern recognition and similarity methods.
  - Suggestion of new business roles candidates

- Bottom-up approach to create business roles

- Helps with simplifying role-based access control

- Reduces risk of access escalation

- Makes entire IGA more understandable and manageable

Role Mining in Action

Role Mining - Benefits

- Simplified access management
  - Assign one business role rather than multiple individual accesses.
- Reduced administrative overhead
  - No need to picking up multiple accesses related to job position or project.
- Transparent access
  - Simplifies compliance reporting.
- Efficient audit trails
  - Capturing more significant, meaningful changes and reducing the noise
- Enhanced business agility

Evolveum

Identity Recovery

- Possibility to recover identity data

- Configuration adjusted according to the type of identity

- Different recovery options available for different types of identities

- Using existing midPoint functionality

  - Smart correlation
  - Flexible authentication

- Disclosure information auditing

- Requested by a subscriber

Flexible Authentication

- New modules added:

    - Archetype selection module
    - Correlation module
    - DUO module

- Improved OIDC module

- Support for MFA

Evolveum
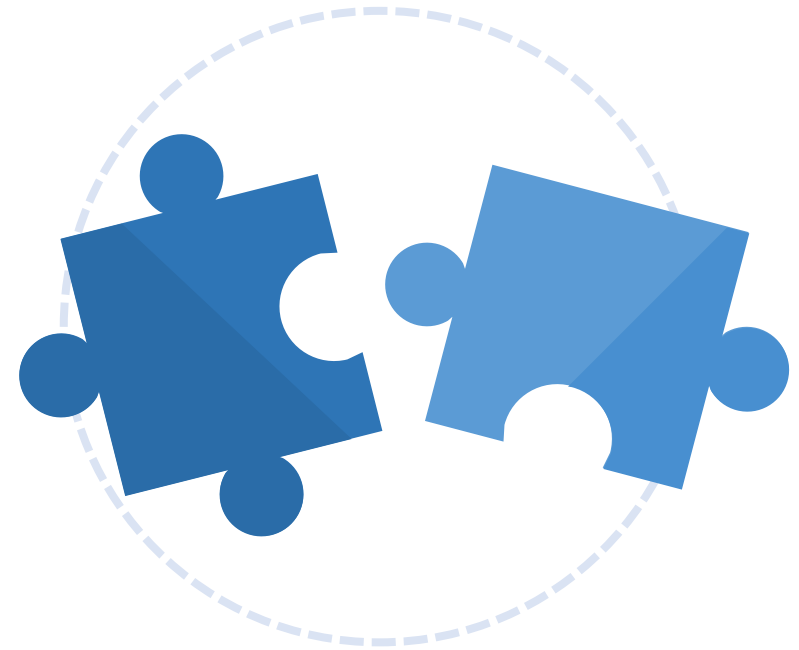
Security-related Improvements

- Performance improvements
  - GUI,
  - Reports,
  - Scripts using midpoint.getObject(..), midpoint.searchObejcts(..)
- Priviledge elevation
  - runAsRef vs. runPrivileged
  - Improved auditing
- Trusted bulk actions
  - Custom actions executable by non-super users
- OWASP dependency - check

midPoint 4.8

Average "get object" execution time per user object

Depending on the object size and midPoint version

Time [microseconds]

16000.0
14000.0
12000.0
10000.0
8000.0
6000.0
4000.0
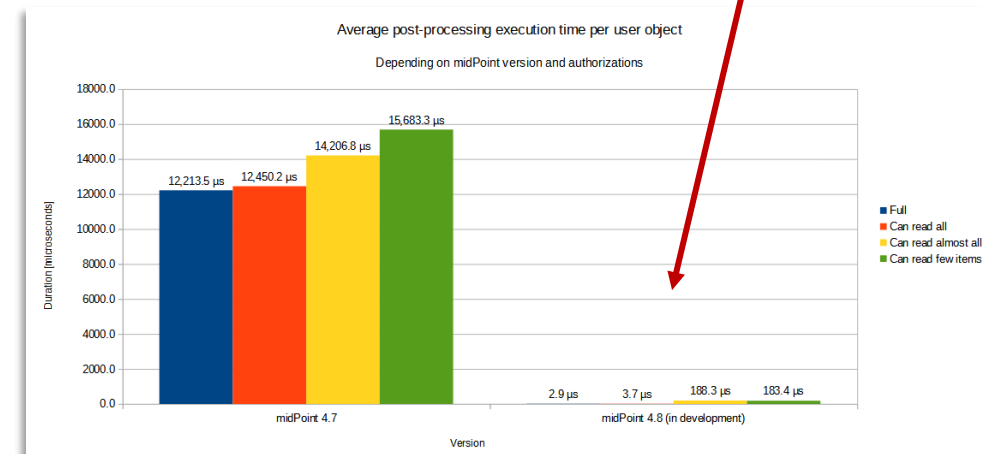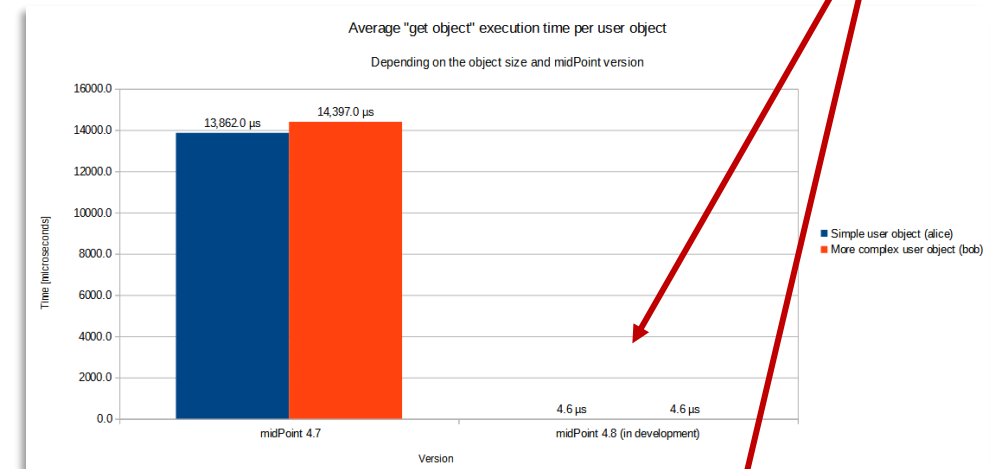2000.0
0.0

13,862.0 µs   14,397.0 µs

4.6 µs   4.6 µs

midPoint 4.7   midPoint 4.8 (in development)

Version

■ Simple user object (alice)
■ More complex user object (bob)

Average post-processing execution time per user object

Depending on midPoint version and authorizations

Duration [microseconds]

18000.0
16000.0
14000.0
12000.0
10000.0
8000.0
6000.0
4000.0
2000.0
0.0

12,213.5 µs 12,450.2 µs 14,206.8 µs 15,683.3 µs

2.9 µs 3.7 µs 188.3 µs 183.4 µs

midPoint 4.7   midPoint 4.8 (in development)

Version

■ Full
■ Can read all
■ Can read almost all
■ Can read few items

Streamline Upgrades

- Ninja

  - A command line tool for low level management of data

- Significantly improved during 4.8

  - Focusing on upgrade procedure

- Verification and objects upgrade

- Pre-upgrade checks

- DB schema upgrade

- Installation upgrade

- Initial objects upgrade (experimental)

Evolveum

Firsts Steps Methodology

- midPoint deployment methodology

  - Describing iterative approach
  - Providing value in small steps asap

- Steps included

  - Connecting source/target system
  - Using smart correlation
  - Testing with simulations
  - Detecting and handling orphaned accounts with marks
  - Managing identity lifecycle
  - Automating the JML processes
  - Managing birthright permissions
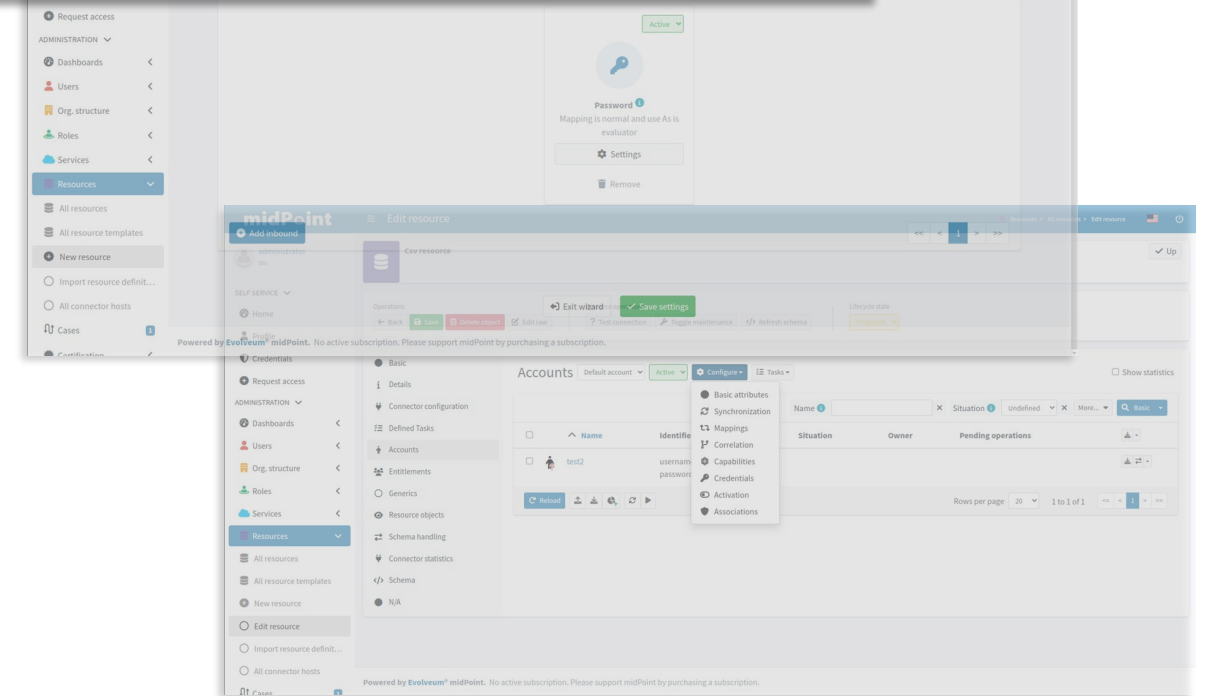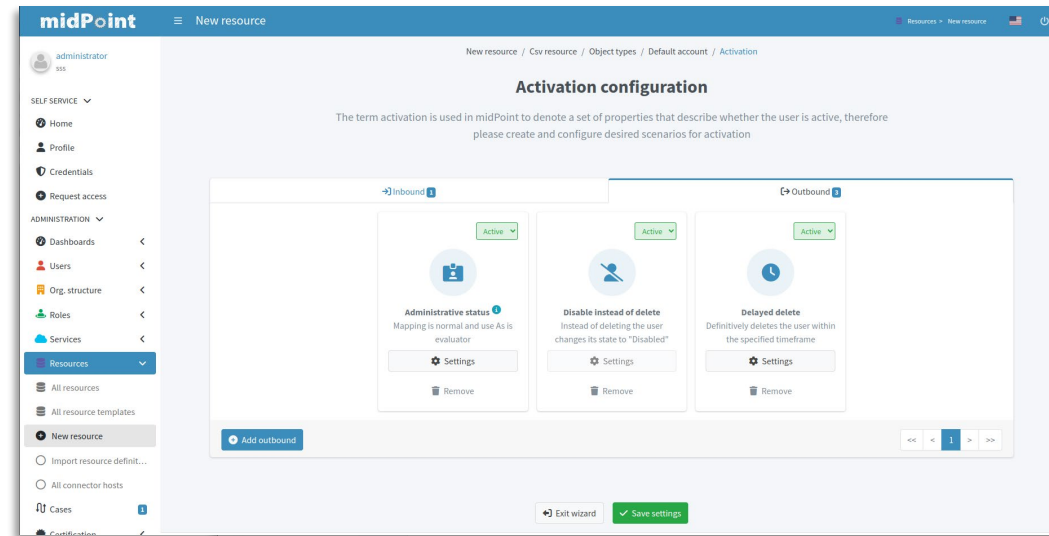 - Go live with any quality of data
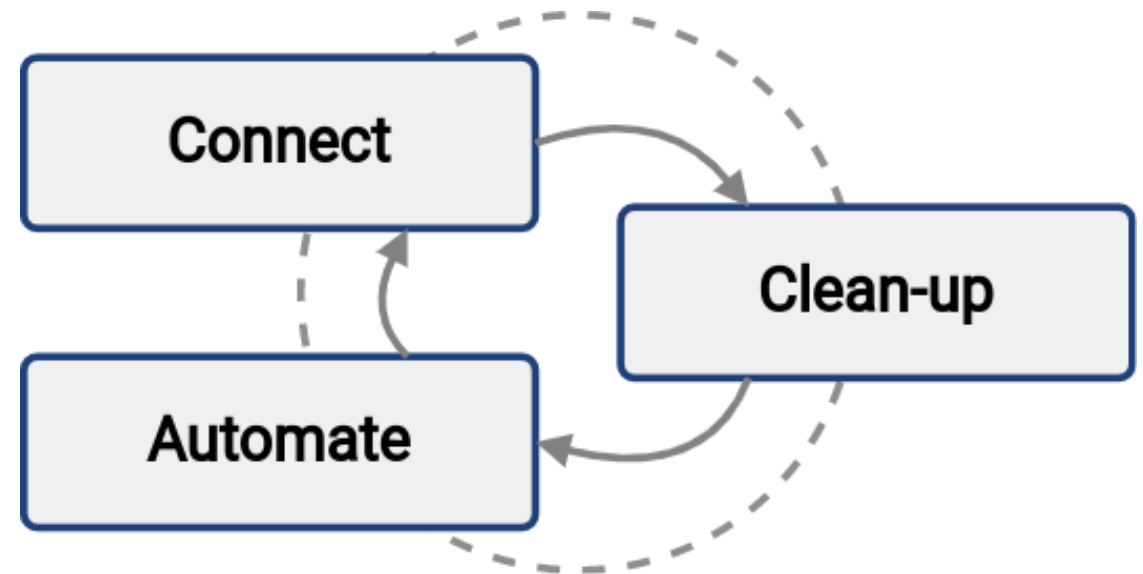
Evolveum

Resource Wizard

- **Pre-defined activation mappings**
  - Delayed delete
  - Disable instead of delete
  - Pre-create
- Password step
- Better integration with resource details

Evolveum

Resource Wizard

- Pre-defined activation mappings
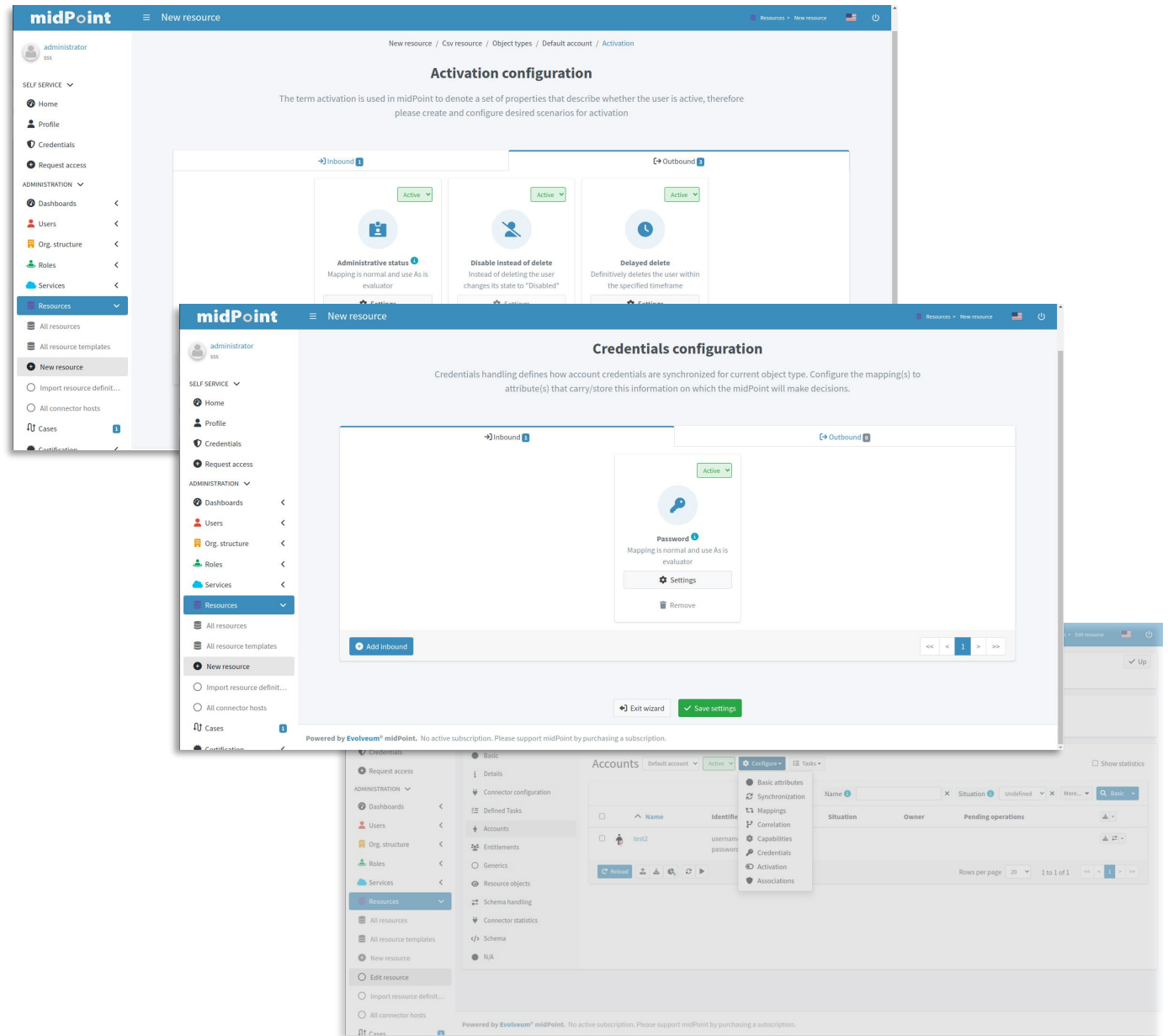 - Delayed delete
  - Disable instead of delete
  - Pre-create
- **Password step**
- Better integration with resource details

Resource Wizard

- Pre-defined activation mappings
  - Delayed delete
  - Disable instead of delete
  - Pre-create
- Password step
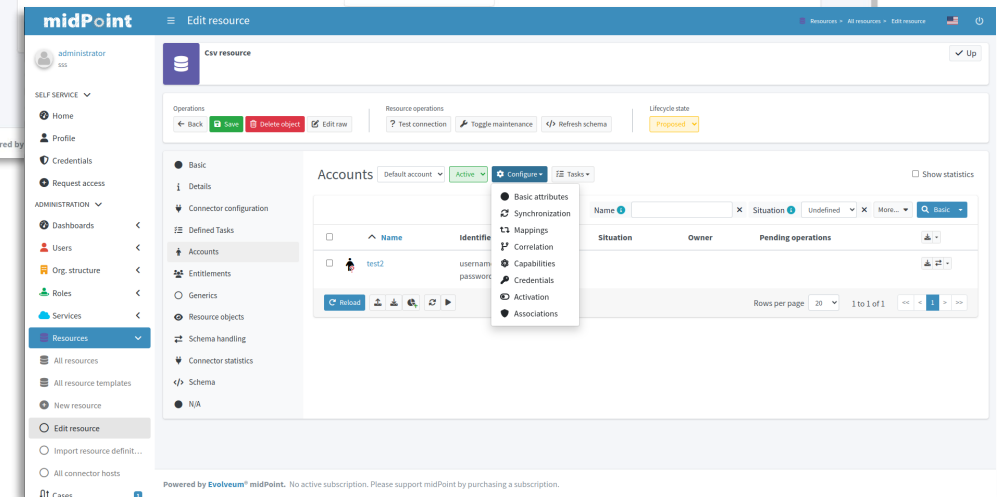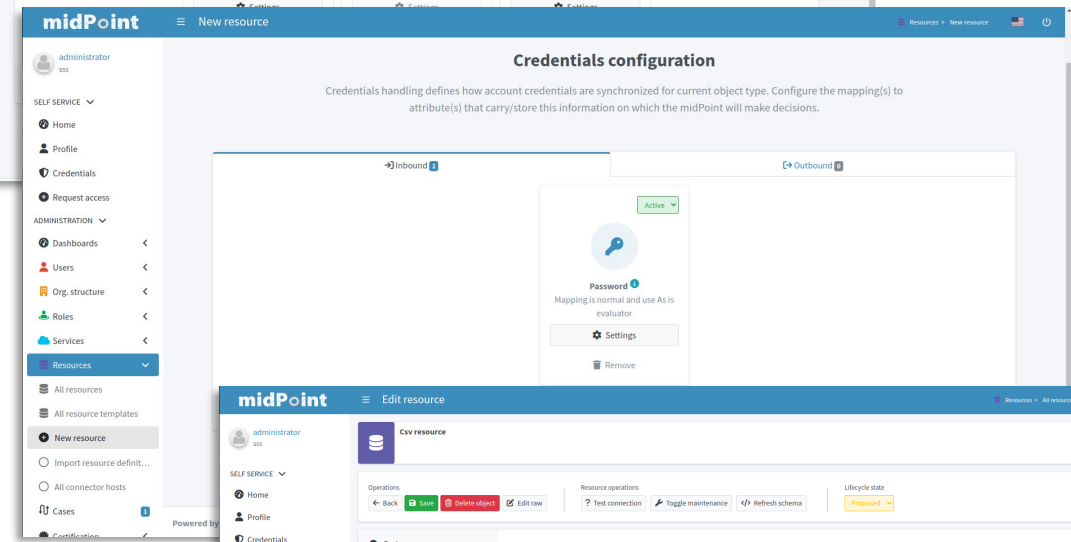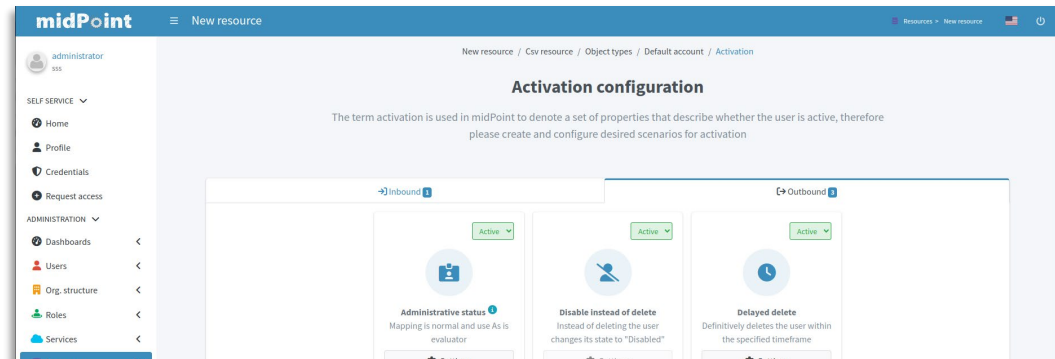- **Better integration with resource details**

Changes Since midPoint 4.4

- Simulations

- Object marks

- Smart correlation

- Request access wizard

- Improved IGA reporting

- Resource templates

- Refreshed look&feel

Evolveum

Platforms

- Operations systems
  - Linux
  - Windows Server 2022
- Java
  - Java 21 – recommended
  - Java 17
- Databases
  - PostgreSQL 14, 15, 16 (native implementation)
  - Orace 21c (generic implementation)
  - Miscrosoft SQL Server 2019 (generic implementation)

Evolveum

Deprecations, Removals and Incompatible Changes

- Support for PostgreSQL with generic repository implementation was removed

    - Migrate to native implementation when using PostgreSQL

- Ninja options were consilidated, which resulted to the incompatible changes

    - See the release notes and documentation

- Password reset with only mailNonce or securityQuestions authentication module won't work. Another module before the those two is required to identify the user.

    - focusIdentification module can be used.

- Initial objects changes

    - See the release notes

- Schema deprecations

    - Use ninja to show you the deprecations

Evolveum

A plan for 4.9

- Planned release date October 1, 2024

  - One-year release cycle
  - Feature release

- Features and Improvements planned

  - WCAG Compliance
  - Attribute caching
  - Lightweight processing
  - Role Engineering improvements
  - Configuration management
  - Certifications improvements
  - Advanced lifecycle model
  - Simplified groups and memberships management

Evolveum

A Timeline

MidPoint Version	Release Date
4.8.1	29-Jan-2024
4.8.2	10-May-2024
4.8.3	19-Aug-2024
4.9	1-Oct-2024
4.8.4	8-Oct-2024
4.8.5	16-Jan-2024
…	…

- Planned timeline

- May differ in reality

- Security updates might change the planned release dates

Evolveum

Webinars

- First Steps Methodology Webinar, November 9, 2023

- Resource Wizard, November 21, 2023

- Navigating the Access Control Maze, December 5, 2023

- Simulations, December 7, 2023

- Upgrade with Ninja, January 25, 2024

- More webinars coming in 2024

Evolveum

Meet Us at TIIME

- Jan 29 - Feb 01, 2024, Copenhagen, Denmark

- MidPoint Working Group (Jan 29 - 30)

  - Share midPoint experience
  - Knowledge exchange and collaboration

- See the [agenda](#)

- Call for speakers

  - Contact us at marketing@evolveum.com

- Register here: https://tiime-unconference.eu/
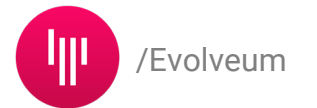
Evolveum

Conclusion

- MidPoint 4.8 supported for 5 years

- Join the First Steps training

- Meet us at the MdPoint Working Group at TIIME

- Preparing

  - Report from penetration testing

  - MidPoint and ISO 27001

  - Webinars

- Any feedback welcomed

Evolveum

Thank you for your time

Do you have any **questions**? Feel free to contact us at **info@evolveum.com**

Follow us on social media or **join us** at GitHub or Gitter!

/Evolveum   @Evolveum   /Evolveum   /Evolveum   /Evolveum   /Evolveum

Evolveum