

Evolveum

What's new in MidPoint 4.6 "Baumgarten"

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November 2022



- What's new in 4.5 "Nightingale"
- What's new in 4.6 "Baumgarten"
- Supported platforms

| MidPoint 4.5 “Nightingale”

- Released on 11 April 2022
 - Feature release, 1 year support
- Main features
 - Identity matching – support for InCommon ID Match integration
 - Notification improvements and localizable Message templates
 - OpenID Connect support (oidc module for Flexible authentication)
- Selection of other improvements
 - Many GUI improvements, System configuration pages improvements
 - Added expression support for Axiom query language, supported and recommended option
 - Native fail-over support in LDAP connector



Message templates (for notifications)

midPoint All message templates

- Nodes
- Reports
- CONFIGURATION
- Archetypes
- Message templates**
- All message templates
- New message template
- Object collections

Name	Description
Manual correlation needed notification	Account XY from re
User change notification	Something change
User deleted notification	User XY was delete

User change notification

Operations: Back Save Delete object Edit raw

- Basic
- Default content**
- Localized content

Details

Subject expression

```
1 <script xmlns:org="http://midpoint.evolveum.com/xml/ns/public/common/org-3">
2   <language>velocity</language>
3   <code>Something changed for user ${event.requesteeName}</code>
4 </script>
```

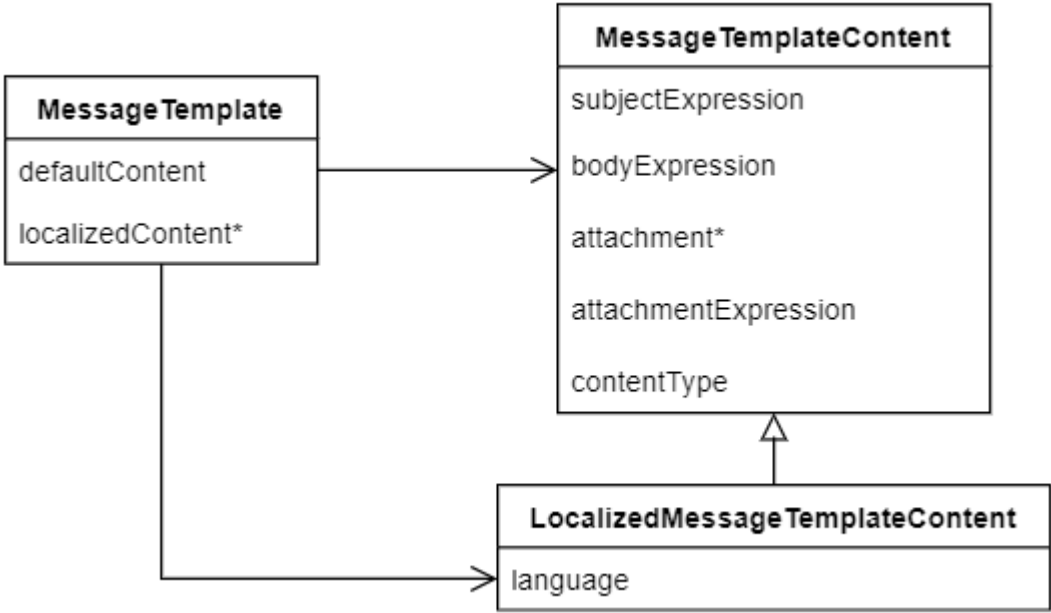
Body expression

```
1 <script xmlns:org="http://midpoint.evolveum.com/xml/ns/public/common/org-3">
2   <language>velocity</language>
3   <code>The following changes were made for user ${event.requesteeName}:
4   ## Executed deltas are too noisy + diving into its objectDelta is needed:
5   #foreach ($delta in $event.focusContext.executedDeltas)
6     $delta.objectDelta.debugDump()
7   #end
8   ##
9   $event.focusContext.primaryDelta.debugDump()
10  </code>
11 </script>
```

Content type

Attachment

Attachment expression



Velocity templates in action!

Notifications with message template

```
<notificationConfiguration>
  <handler>
    <description>Sends notification for filtered event</description>
    <generalNotifier>
      <expressionFilter>
        <script><code>return event?.something?.possibly?.returningTrue // not a real code!</code></script>
      </expressionFilter>
      <recipientExpression><script> <!-- recipientExpression can now return string OR focus object -->
        <code>actor</code> <!-- focus object, this will enter the expression lower as recipient -->
      </script></recipientExpression>
      <!-- message template ref as alternative to {subject,body,contenttype,attachment}Expression-s -->
      <messageTemplateRef oid="989a480f-4781-4e43-b31d-4b2e2af6d814"/>
      <transport>mymail</transport>
    </generalNotifier>
  </handler>
</notificationConfiguration>
<messageTransportConfiguration>
  <mail>
    <name>mymail</name>
    <logToFile>mail-notifications.txt</logToFile>
    <recipientAddressExpression><script>
      <code>recipient.emailAddress ?: 'missing-email@example.com'</code> <!-- fallback email if user has none -->
    </script></recipientAddressExpression>
    <!-- the rest of email server config -->
  </mail>
</messageTransportConfiguration>
```

Example 1:

```
<q:equal>
  <q:path>name</q:path>
  <c:expression>
    <c:path>$c:account/c:attributes/ri:uid</c:path>
  </c:expression>
</q:equal>
```

Example 2:

```
<gt;
  <path>metadata/createTimestamp</path>
  <expression>
    <script>
      <language>groovy</language>
      <code>
        ret = basic.addDuration(now, "-P30D");
        now = basic.currentDateTime();
        return ret
      </code>
    </script>
  </expression>
</gt>
```

Example 1:

```
name = $c:account/c:attributes/ri:uid
```

Example 2 – implicit Groovy script/code:

```
metadata/createTimestamp > ```
  now = basic.currentDateTime();
  ret = basic.addDuration(now, "-P30D");
  return ret
  ```
```

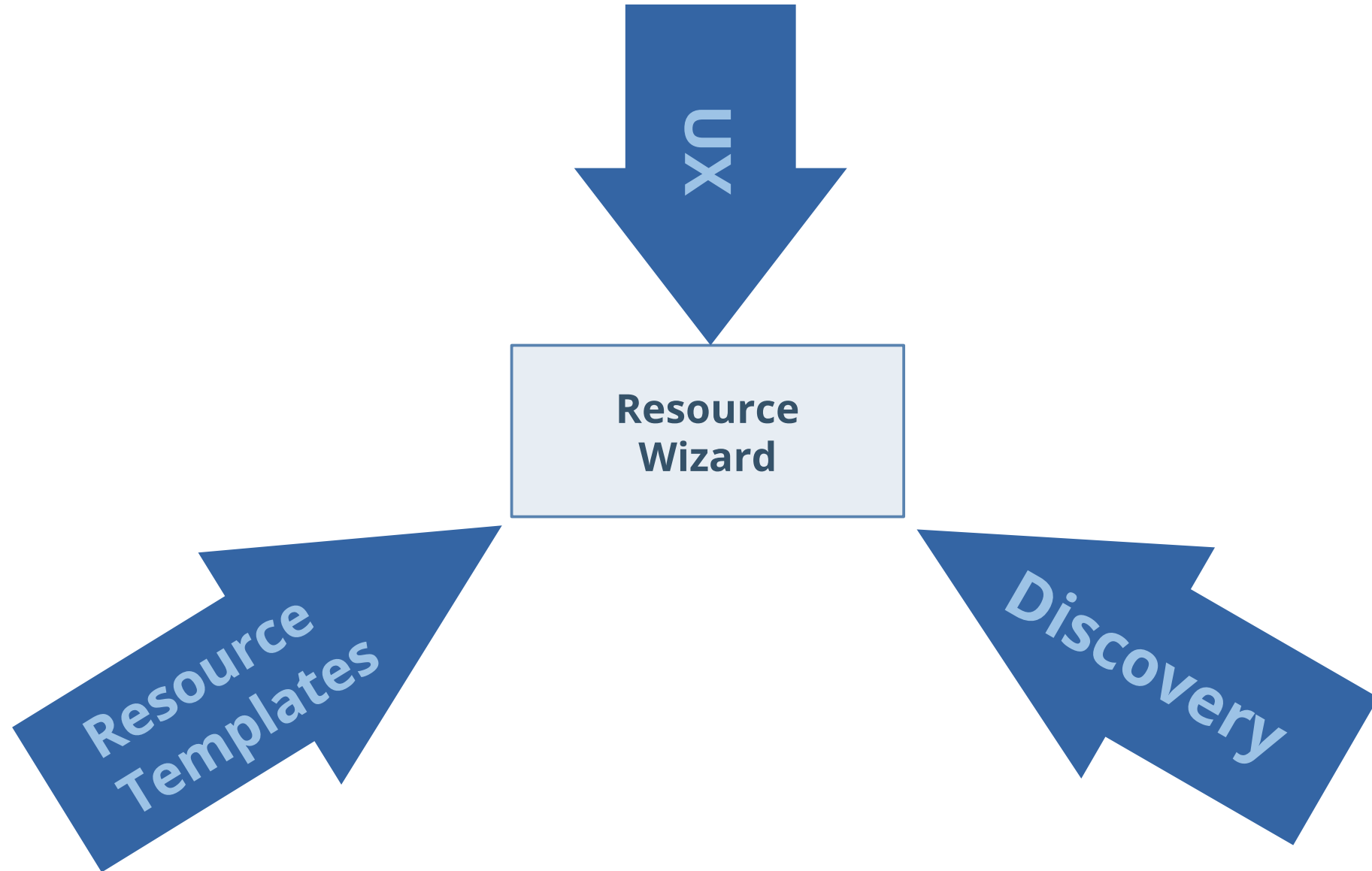
## Example 2 – universal expression:

```
metadata/createTimestamp > yaml```
 script:
 language: groovy
 code: |
 now = basic.currentDateTime();
 ret = basic.addDuration(now, "-P30D");
 return ret
  ```
```

| MidPoint 4.6 “Baumgarten”

- Released on 21 October 2022
 - Feature release, 1 year support
- Main features
 - Main UX improvements: Resource wizard, Self-service
 - Smart correlation
 - Resource templates, Resource discovery
 - Many other UI/UX improvements
 - Assignment panel search can use Repository
 - Most GUI configuration changes are applied without logout now
 - Saved searches





- Basic configuration – creating new Resource
 - From scratch, selecting a Connector
 - From Resource template („abstract“ resource)
 - Resource template is a „super-resource“ and changes there affect the derived resource
- Object type configuration
 - Available as a continuation of the wizard for a new resource
 - Available from edit page via Accounts, Entitlement... and Schema handling

Docs: <https://docs.evolveum.com/midpoint/reference/admin-gui/resource-wizard/>

Resource Wizard – New resource



administrator

SELF SERVICE ▾

- 🏠 Home
- 👤 Profile
- 🛡️ Credentials
- ➕ Request access
- ☑️ Consents

ADMINISTRATION ▾

- 📊 Dashboards <
- 👤 Users <
- 🏢 Org. structure <
- 👤 Roles <
- ☁️ Services <

Resources ▾

- 📄 All resources
- ➕ New resource
- Import resource definition
- All connector hosts
- 🔄 Cases 1
- ⚙️ Certification <
- ☰ Server tasks <
- 🏠 Nodes <

← Back

Resource catalog

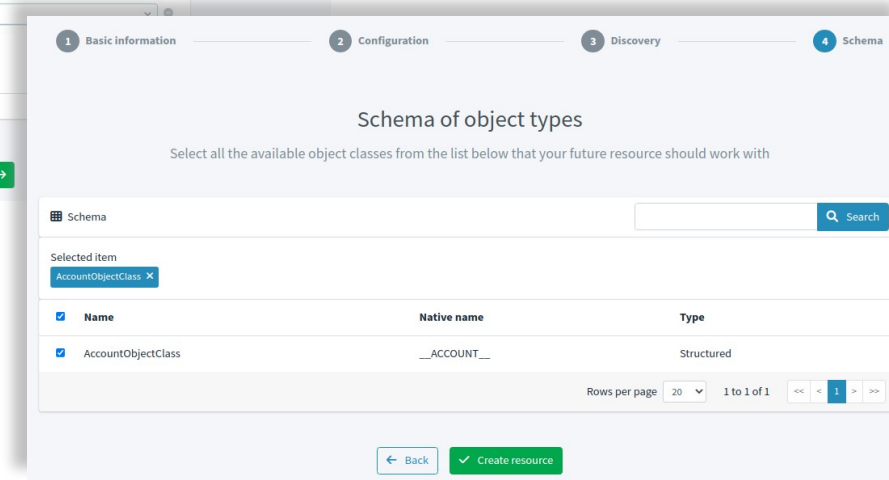
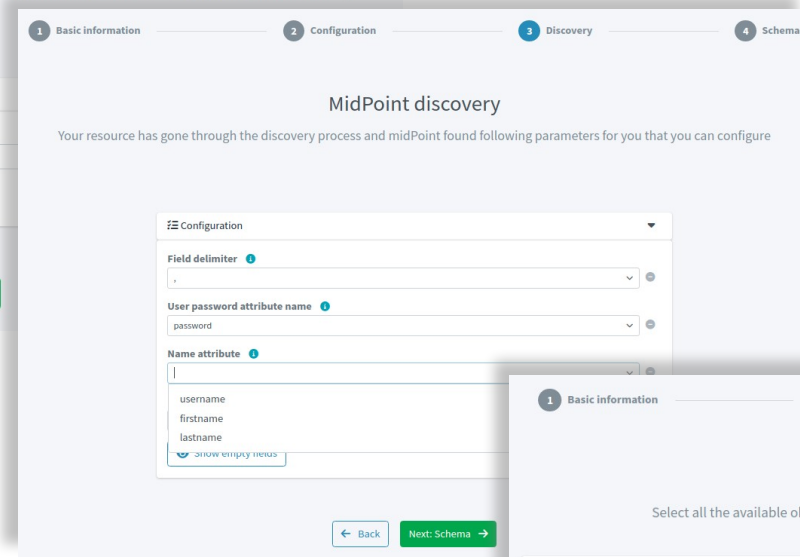
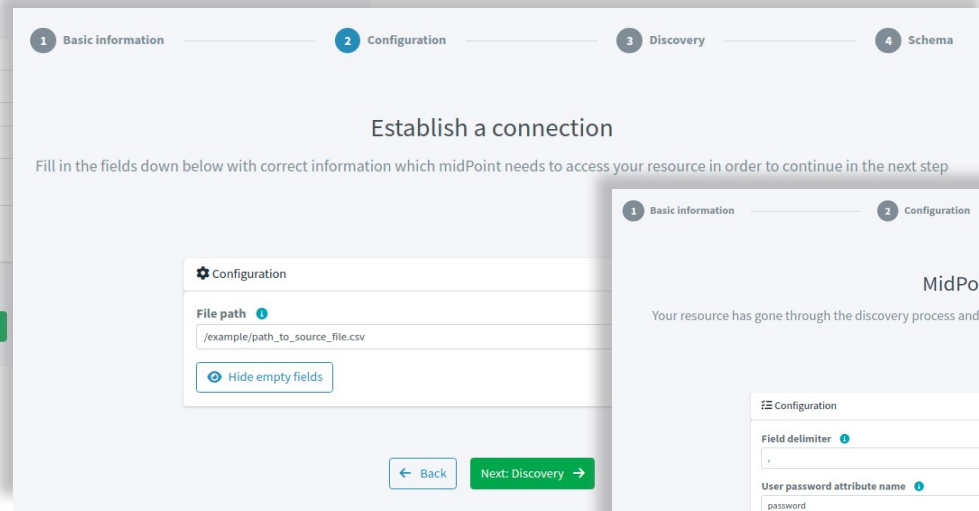
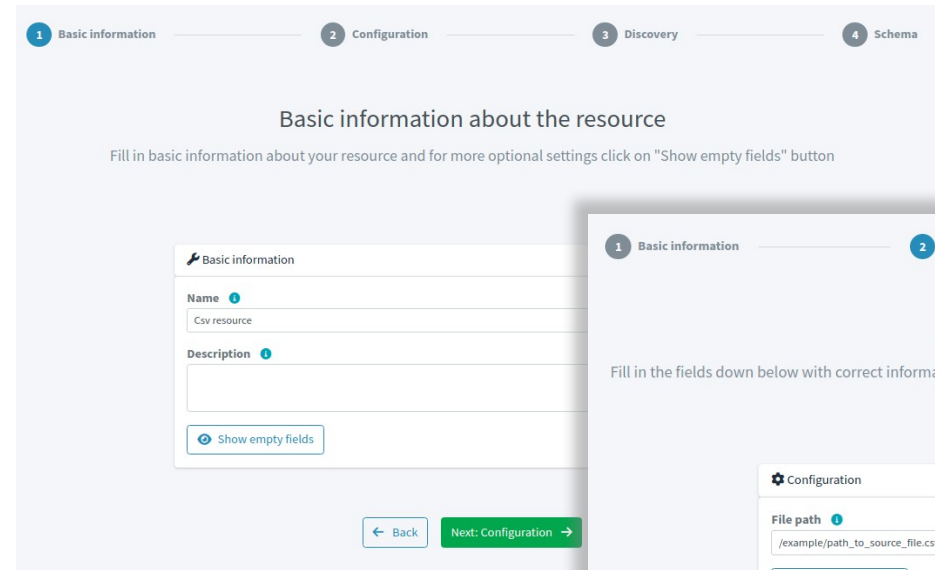
From scratch ▾

Name ⓘ × More... ▾ 🔍 Basic ▾

 AsyncProvisioningConnector Built-in AsyncProvisioningConnector v1.0.0 1.0.0	 AsyncUpdateConnector Built-in AsyncUpdateConnector v1.0.0 1.0.0	 ManualConnector Built-in ManualConnector v1.0.0 1.0.0	 CsvConnector ConnId com.evolvium.polygon.connector.csv.CsvConnector v2.5 2.5	 CsvConnector ConnId com.evolvium.polygon.connector.csv.CsvConnector v2.5-SNAPSHOT 2.5-SNAPSHOT
 LdapConnector ConnId com.evolvium.polygon.connector.ldap.LdapConnector v3.5 3.5	 AdLdapConnector ConnId com.evolvium.polygon.connector.ldap.ad.AdLdapConnector v3.5 3.5	 DatabaseTableConnector ConnId org.identityconnectors.databasetable.DatabaseTableConnector v1.5.0.0 1.5.0.0		

Resource Wizard – Basic configuration

- Designed not to overwhelm with all the details
- Connection data needed for discovery go first



- After connection, discovery suggests possible options/values.
- After selection of object types from schema the new Resource is saved.

Resource Wizard – after basic configuration

- You can continue with other sub-wizards or go to Resource edit

A new resource has been created

Your resource has been successfully created and configured, now select what you want to do next

Preview Resource Data

Configure Object Types

Go To Resource

Exit wizard

Csv resource

Operations: Back, Save, Delete object, Edit raw

Resource operations: Test connection, Toggle maintenance, Refresh schema

- Basic
- Details
- Connector configuration
- Defined Tasks
- Accounts
- Entitlements
- Generics
- Uncategorized
- Schema handling
- Connector statistics

Configure Synchronization

Configure Mappings

Intent: default (Object Class: AccountObjectClass)

Summary

State	Count	State	Count
Deleted	0	Linked	0

Name Identifiers

Resource data preview

Here you can see a list of all objects that are on the resource

Object Class: AccountObjectClass

More... Basic

Name	Identifiers	Situation	Intent	Owner	Pending operations
user01	username: user01		unknown		
user02	username: user02		unknown		
test	username: test		unknown		

Rows per page: 20

Displaying 1 to 20, unknown number of matching results.

Exit wizard

Object type manager

Here is a table with all the objects available in the selected resource, manage existing or create a new one

Basic

Display name	Kind	Intent	Member	Description
No matching result found.				

Rows per page: 20

Exit wizard Add new object type

Resource Wizard – new Object Type

- Also available from Schema handling panel

The image displays three overlapping screenshots of the Resource Wizard interface, illustrating the steps for creating a new object type.

Step 1: Basic information
Title: Basic information about the object type
Instruction: Fill in the basic information about your object type and when you are done proceed further

Fields shown in the 'Basic information' step:

- Display name: Default account
- Description: (Empty text area)
- Kind: Account
- Intent: default
- Security policy: (Empty dropdown)
- Default: Undefined
- Buttons: Hide empty fields, Exit wizard, Next: Resource data →

Step 2: Resource data
Title: Specify the resource data
Instruction: Fill in the necessary fields to delineate the boundary of objects that belong to that type and contains supporting instructions regarding classification of objects into types

Fields shown in the 'Resource data' step:

- Object class: AccountObjectClass
- Auxiliary object class: (Empty dropdown)
- Search hierarchy scope: Undefined
- Filter: (Empty dropdown)
- Classification condition: (Empty text area)
- Buttons: Hide empty fields, Back, Exit wizard, Next: MidPoint data →

Step 3: MidPoint data
Title: Specify the midPoint data
Instruction: Fill in the necessary fields to specify focus objects corresponding to given resource object type

Fields shown in the 'MidPoint data' step:


- Type: User
- Archetype: (Empty dropdown)
- Buttons: Hide empty fields, Back, Exit wizard, Save settings

Resource Wizard – Object Type wizards


Csv resource / Object types / Default account

Object type wizard


Choose what would you like to do with this object type




Preview Data Of Object Type




Configure Mappings




Configure Synchronization




Configure Correlation




Configure Capabilities




Configure Activation



Configure Credentials



Configure Associations



Go To Resource

[↩ Back to list of object types](#)

Resource Wizard – Configure Mappings

Csv resource / Object types / Default account / Mappings

Mappings

Please create a map which defines the destination places of a resource attributes in midPoint (inbound) and the destination places of midPoint attributes back to the resource (outbound). If you need an advanced optional configuration, click on the "Edit" button.

→ Inbound mappings (to MidPoint)

↔ Outbound mappings (to Resource)

<input type="checkbox"/>	Name <i>i</i>	Ref* <i>i</i>	Target	Enabled <i>i</i>	
<input type="checkbox"/>	Name	username	→ name	Undefined	

+ Add simple inbound

Rows per page: 20 | 1 to 1 of 1 | << < 1 > >>

- Exit wizard
- Add inbound
- Attribute overrides
- Save mappings

Main configuration

Ref *i*: username

Name *i*: Name

Target: name

← Back

Main configuration

Ref *i*: lastName

Name *i*: Last name

Description:

Documentation *i*:

Trace *i*: Undefined

Authoritative *i*: Undefined

Exclusive *i*: Undefined

Strength *i*: Undefined

Channel *i*:

Except channel *i*:

Time from:

Time to:

Source *i*:

Focus type:

Expression:

Target: familyName

Condition:

Enabled *i*: Undefined

← Back

Resource Wizard – available from edit page

- In Accounts, Entitlements... after choosing Intent

Csv resource ✓ Up

Operations: [← Back](#) [Save](#) [Delete object](#) [Edit raw](#) | Resource operations: [? Test connection](#) [Toggle maintenance](#) [Refresh schema](#)

Basic | Details | Connector configuration | Defined Tasks | **Accounts** | Entitlements | Generics | Uncategorized | Schema handling | Connector statistics

[Configure Synchronization](#) [Configure Mappings](#) [Configure Correlation](#) [Configure Capabilities](#) [Configure Credentials](#) [Configure Activation](#) [Configure Associations](#)

Intent: default (Object Class: AccountObjectClass) Search In: [Repository](#) [Resource](#)

Summary

State	Count	State	Count	State	Count	State	Count	State	Count	State	Count	Total
Deleted	0	Linked	0	Unmatched	0	Disputed	0	Unlinked	0	Nothing	3	3

Name

<input type="checkbox"/>	Name	Identifiers	Situation	Intent	Owner	Pending operations
<input type="checkbox"/>	user01	username: user01		default		<input type="button" value="x"/> <input type="button" value="↕"/>
<input type="checkbox"/>	user02	username: user02		default		<input type="button" value="x"/> <input type="button" value="↕"/>

Resource Wizard – capabilities

- Available per Object Type and also in Resource/Details

Capabilities

Capabilities are definitions of a specific things that a resource can do and as there are various resource types and configuration some resources can enable/disable an account and some cannot. Click on specific capability from down below to activate/deactivate it or trigger further configuration.

⚙ List of capabilities

Discover configuration	Activation	Activation status	Activation validity from	Activation validity to	Activation lockout	Credentials	Password	Live Sync	Async update
Create	Read	Update	Delete	Test connection	Script	Paged search	Count objects	Auxiliary object classes	Run as

↩ Exit wizard **Save capabilities**

Resource Wizard – Configure Correlation

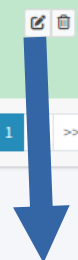
Csv resource / Object types / Default account / Correlation

Correlation rules

Correlation is a mechanism used for correlating identity data with existing focus objects in a repository. This functionality can provide an approximate matching only when correlation rules are specified.

<input type="checkbox"/> Rule name ⓘ	Description	Weight ⓘ	Tier ⓘ	Ignore if matched by ⓘ	Enabled ⓘ	
<input type="checkbox"/> Username	Correlation rule for item(s) name				Undefined ▾	

Rows per page: 20 ▾ 1 to 1 of 1 << < 1 > >>



Csv resource / Object types / Default account / Correlation / Username

Configuration of correlation items

Add and specify correlation item(s) to make the correlation rule work correctly

<input type="checkbox"/> Item ⓘ	Search method ⓘ ⓘ	Match threshold ⓘ	Inclusive ⓘ	
<input type="checkbox"/> name ▾	Exact match ▾			

Rows per page: 20 ▾ 1 to 1 of 1 << < 1 > >>

- In 4.6, the correlation mechanism is based on correlation rules.
- Correlation rule types:
 - **filter** – legacy filter-based correlation rule (since midPoint 1.7)
 - **expression** – custom expression, experimental (since 4.5)
 - **idmatch** – rule using external ID Match service (since 4.5)
 - **items** – smart item-based correlation, the suggested option now (since 4.6)
- Rule composition, Fuzzy searching (next slides)
- Experimental: Custom indexing (e.g. just prefix of the name), Multiple identity sources

- Previously, correlation filter searched focus by resource object attributes.
- Item-based correlation compares focus-like object after the mapping.
- Element **correlation** can appear in the Resource configuration under **schemaHandling /objectType** or inside an Object template:

```
<correlation>
  <correlators>
    <items>
      <item>
        <ref>employeeNumber</ref>
        <!-- optional search/matching options here, otherwise exact match is used -->
      </item>
    </items>
  </correlators>
</correlation>
```

| Item-based correlation shortcut









- Item correlation can be defined directly inside attribute definition:

```
<schemaHandling>
  <objectType>
    ...
    <attribute>
      <ref>icfs:name</ref>
      <correlator/> <!-- enables correlation-time mapping evaluation -->
      <inbound>
        <target>
          <path>name</path> <!-- focus property is correlated -->
        </target>
      </inbound>
    </attribute>
    ...
  </objectType>
</schemaHandling>
```

Rule composition

$$total\ confidence_{cand} = \min\left(\sum_{cor} \frac{confidence_{cand,cor} \cdot weight_{cor}}{scale}, 1\right)$$

- Rules can be grouped to tiers, next tier is used only when needed.
- “Ignore if matched by” implies order of processing within the tier.

<input type="checkbox"/>	Rule name ⓘ	Description	Weight ⓘ	Tier ⓘ	Ignore if matched by ⓘ	Enabled ⓘ	
<input type="checkbox"/>	name similarity	Matches based on the name similarity	0.5	1	empNo match *	Undefined ▾	 
Tier 1							
<input type="checkbox"/>	empNo match	Exact match of employee number	1	1		Undefined ▾	 
<input type="checkbox"/>	personal id match	Optional ID matches	1	2		Undefined ▾	 
Tier 2							
<input type="checkbox"/>	personal id similarity	Optional ID similarity	0.5	2	personal id match *	Undefined ▾	 

+ Add rule

Rows per page 20 ▾ 1 to 4 of 4 << < 1 > >>

Fuzzy match/search

- Available functions: Levenshtein distance and Trigram similarity
- Supported in-memory and with the Native repository
- Usable in correlation rules:

Configuration of correlation items

Add and specify correlation item(s) to make the correlation rule work correctly

Item	Search method	Match threshold	Inclusive
<input type="checkbox"/> name	Levenshtein distance	3	True

+ Add correlator

Exact match

Levenshtein distance

Trigram similarity

Rows per page 20 1 to 1 of 1

Confirm settings

- Can be used in other queries, example of Axiom filter:

familyName similarity ('gren', 0.5, true)

| Changes on the Self Service Home page

- All widgets shown on Home dashboard are configurable
- **homePage** element is added to **adminGuiConfiguration** for Home dashboard page configuration
- It's possible to configure the number of the widgets on the Home page, their visibility for different roles, their look, actions etc.
 - See <https://docs.evolveum.com/midpoint/reference/admin-gui/self-service/#home-page>
- Both standard (implemented in midPoint) and custom panels can be configured to be shown on the Home dashboard page
 - For more info see <https://docs.evolveum.com/midpoint/reference/admin-gui/admin-gui-config/> Panel configuration section
- **userDashboardLink** is deprecated

New look of the Home dashboard page

midPoint Home Home

administrator

SELF SERVICE ▾

- Home
- Profile
- Credentials
- Request access

ADMINISTRATION ▾

- Dashboards <
- Users <
- Org. structure <
- Roles <
- Services <
- Resources <
- Cases <

Enter the name to search for Users ▾

Profile
View/edit your profile

Credentials
View/edit your credentials

List resources

List users

My accesses

Name	Activation
Superuser	enabled

View all Request access

My requests

Name	Description	Object	Opened	Outcome	State
Approving and executing change of user "enduser" (started Nov 2, 2022, 11:36:34 AM)		enduser	11/2/22, 11:36:34 AM	1	open

View all

Changes on the Self Service Profile page

- Self Service Profile page configuration was separated from the object details page configuration.
- **selfProfilePage** element is added to **adminGuiConfiguration** for Profile page configuration
- Documentation for Profile page configuration:
<https://docs.evolveum.com/midpoint/reference/admin-gui/self-service/#profile-page>
- Example – default midPoint End user role was updated with Profile page configuration:

```
<selfProfilePage>  
  <type>UserType</type>  
  <panel>  
    <identifier>history</identifier>  
    <visibility>hidden</visibility>  
  </panel>  
</selfProfilePage>
```

Changes on the Self Service Profile page

Administrator without End user role versus user with End user role:

The screenshot shows the user interface for an administrator. The user is identified as 'administrator'. The left sidebar contains 'SELF SERVICE' and 'ADMINISTRATION' sections. The 'Profile' option is highlighted. The main content area shows the user's name 'midPoint Administrator (administrator)' and a red profile picture. Below this, there are 'Operations' buttons: 'Back', 'Save', and 'Preview changes'. A list of menu items is displayed on the right, with 'History' highlighted by a red box. The other menu items are: Basic, Projections (0), Assignments (1 <), Activation, Password, Cases (0), Personas (0), Delegations (0), Delegated to me (0), and Triggers (0).

The screenshot shows the user interface for a user with an End user role. The user is identified as 'jack'. The left sidebar contains 'SELF SERVICE' and 'Request access' options. The 'Profile' option is highlighted. The main content area shows the user's name 'Jack Sparrow (jack)' and a red profile picture. Below this, there are 'Operations' buttons: 'Back' and 'Save'. A list of menu items is displayed on the right, with counts next to some items: Basic, Projections (0), Assignments (2 <), Activation, Password, Cases (0), Personas (0), Delegations (0), Delegated to me (0), and Triggers (0).

Changes on the Self Service Credentials page

Self Service Credentials page was reworked to comply with the latest UX designs. The functionality remains the same.

midPoint Credentials

administrator

SELF SERVICE

- Home
- Profile
- Credentials**
- Request access

ADMINISTRATION

- Dashboards
- Users
- Org. structure
- Roles
- Services
- Resources
- Cases

Password

Current password

.....

New password

.....

.....

Change password on individual systems

Individual systems

<input type="checkbox"/>	Name	Resource	Account enabled	Password validation	Propagation result
<input checked="" type="checkbox"/>	administrator	Identity Manager Repository	✓	i	

Change password

Password requirements

- ✓ Characters at least 5
- ✓ Unique characters at least 3

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Request Access

- Completely rewritten, with first two steps optional (configuration/authz)

midPoint Request access

Request access

administrator

SELF SERVICE

- Home
- Profile
- Credentials
- Request access**

ADMINISTRATION

- Dashboards
- Users
- Org. structure
- Roles
- Services
- Resources
- Cases
- Certification
- Server tasks
- Nodes

1 Person of interest

2 Relation

3 Role catalog

4 Shopping cart

Who are you requesting for?

Select for whom do you want to request access whether it's you or group of team members

Myself

Users With Name Containing B

Users From Collection

[← Back](#)

0

Powered by **Evolveum**® midPoint. No active subscription. Please support midPoint by purchasing a subscription.

Request Access – choosing objects

Define group of users

Select users for whom you are going to request access

User selection from 'Users with name containing b'

Select manually

← Back

Choose object

Family name

Given name

Name

More...

Basic

<input type="checkbox"/>	^ Name	Given name	Family name	Full name	Email
<input type="checkbox"/>	barkeeper	Barkeeper	Scumm	Horridly Scarred Barkeep	
<input type="checkbox"/>	bob	Bob		Ghost Pirate Bob	
<input type="checkbox"/>	guybrush	Guybrush	Threepwood	Guybrush Threepwood	

1 to 3 of 3

<<

<

1

>

>>

20

✓





Add

Cancel

| Request Access – relation

1 Person of interest — 2 **Relation** — 3 Role catalog — 4 Shopping cart

What type of access are you requesting for?
Select the type of access you wish to request for (e.g. membership, ownership, etc.)

 Default	 Manager	 Approver	 Owner
--	---	---	--

[← Back](#) [Next: Role catalog →](#)

Request Access – role catalog

- Menu sections: a) org structure, b) collections, c) roles of teammates

The screenshot displays the 'Role catalog' interface in Evolveum, showing a grid of role cards and a detailed view of the 'All organizations' menu section.

Main Interface:

- Progress bar: 1 Person of interest, 2 Relation, 3 Role catalog, 4 Shopping cart.
- Navigation: Back button, Role catalog, Requesting for 1 users.
- Search filters: Display Name, Name, Parent Organization.
- Grid of role cards: Executive Division, Sales Department, Technology Division, Software Department, Java Development.
- Each card includes an 'Add to cart' button and a 'Details' link.

Inset View (All organizations menu):

- Navigation: Back button, Role catalog, Requesting for 1 users.
- Search filter: Display Name.
- Menu items: Executive Division, Technology Division, Human Resources, All roles, All organizations (selected), All services, roles containing mid, Roles of teammate.
- Table of roles:

<input type="checkbox"/>	Name	Status
<input type="checkbox"/>	Executive Division	✓
<input type="checkbox"/>	Sales Department	✓
<input type="checkbox"/>	Technology Division	✓
<input type="checkbox"/>	Software Department	✓
<input type="checkbox"/>	Java Development	✓
<input type="checkbox"/>	IT Administration Department	✓
<input type="checkbox"/>	Human Resources	✓
<input type="checkbox"/>	Active Employees	✓

Request Access – checkout

administrator

SELF SERVICE

Home

Profile

Credentials

Request access

ADMINISTRATION

Dashboards

Users

Org. structure

Roles

Services

Resources

Cases

Certification

Server tasks

Nodes

1 Person of interest

2 Relation

3 Role catalog

4 Shopping cart

Back Shopping cart **1 conflict found**

Items in cart

Access name	Requesting for	
Prisoner	1 User	

Clear the shopping cart

1 to 1 of 1 << < 1 > >> 20

Checkout

Validity

Choose one

Comment

Text input area for comment

Open conflict solver

Submit my request

Request Access – conflict solver

administrator

SELF SERVICE

Home

Profile

Credentials

Request access

ADMINISTRATION

Dashboards

Users

Org. structure

Roles

Services

Resources

Cases

Certification

Server tasks

Nodes

Conflict solver **1 conflict found**

Unresolved **1** Solved Skipped

Role "Prisoner" excludes role "Judge", for bob **Fatal conflict**

There is a conflict with **Prisoner** and **Judge**

Reason

Violation of SoD policy: Role "Prisoner" excludes role "Judge", they cannot be assigned at the same time

Solution

This conflict can be solved by removing one of role from your shopping cart

- I want to keep **Prisoner** (new)
- I want to keep **Judge** (already assigned)

Fix conflict

Conflict solver

All conflicts were resolved successfully

There are no conflicts remaining, continue back to shopping cart and finish yo

Back to shopping cart

Unresolved Solved **1** Skipped

Role "Prisoner" excludes role "Judge", for bob **Fatal conflict**

There is a conflict with **Prisoner** and **Judge**

Reason

Violation of SoD policy: Role "Prisoner" excludes role "Judge", they cannot be

Solution

This conflict can be solved by removing one of role from your shopping cart

- I want to keep **Prisoner** (new)
- I want to keep **Judge** (already assigned)

Fix conflict

| Assignment panel with repository search

- Assignment panel in object detail uses in-memory search by default.
- Since 4.6 you can switch it to repository search. (Native repository only!)
 - Search by assignment's **targetRef** target conditions, e.g. target object name.
 - Search by target object full-text index. (Not assignment's! No full-text index on them.)
 - Search by combination of target reference criteria and target object criteria.
 - Search by assignment extensions.
- Object with assignments has to be saved for consistent results.
- Order by assignment extensions possible (must be single-value).
- Enabled by **dataProvider** element in **adminGuiConfiguration**.

Assignment panel with repository search examples

extension/reason contains "testing"

<input type="checkbox"/>	Name	Activation	Assignment Reason	
<input type="checkbox"/>	Approver	enabled	Because of testing.	- [edit] [refresh]
<input type="checkbox"/>	Superuser	enabled	Because of testing.	- [edit] [refresh]

decisions

<input type="checkbox"/>	Name	Activation	
<input type="checkbox"/>	Approver	enabled	- [edit] [refresh]
<input type="checkbox"/>	Reviewer	enabled	- [edit] [refresh]

targetRef/@/roleMembershipRef/@/name = "System role"

<input type="checkbox"/>	Name	Activation	Assignment Reason	
<input type="checkbox"/>	Approver	enabled	Because of testing.	- [edit] [refresh]
<input type="checkbox"/>	Delegator	enabled		- [edit] [refresh]
<input type="checkbox"/>	Reviewer	enabled		- [edit] [refresh]
<input type="checkbox"/>	Superuser	enabled	Because of testing.	- [edit] [refresh]

1 to 4 of 4 << < 1 > >> [gear]

Docs: <https://docs.evolveum.com/midpoint/guides/assignment-repository-search/>

| New query filters – ref filter with target filter

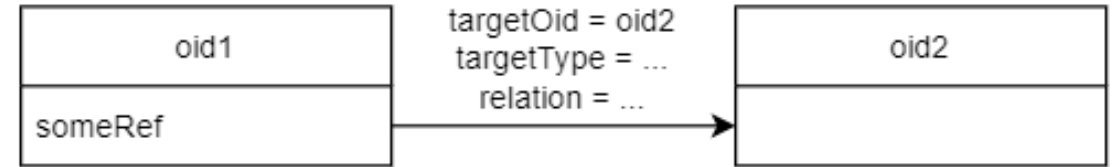
- Extended **ref** filter allows combining criteria for the reference itself (type, relation) with the criteria for the target object.
- Useful for multi-value references, allowing things not possible before.
- Example: users that are members of roles with names starting with the specified string:

```
roleMembershipRef matches (  
  targetType = RoleType  
  and  
  // @ represents ref target, target filter is inside (...)  
  @ matches (  
    name startsWith[origIgnoreCase] "super" ) )
```

| New query filters – referencedBy

- **referencedBy** allows to filter *objects* by conditions on another object/container that is referencing the queried object.

- No relation specified means „any“.



- Example:
Search for organizations assigned to a particular user, whatever the relation.

```

. referencedBy (
  @type = UserType
  and @path = parentOrgRef
  and . inOid '2b1fd02e-db31-4896-95e9-82192df00c42'
)
  
```

| New query filters – ownedBy

- **ownedBy** allows to filter *containers* by conditions on another object/container that is a parent object/container of the filtered one.
- Example: Filtering assignments for a user with specified name

```
. ownedBy (  
  @type = UserType  
  and @path = assignment  
  and name = "user-3"  
)
```

| New query filters – ownedBy

- **ownedBy** can be nested or combined with **referencedBy**
- Example: Search for **AccessCertificationWorkItemType** containers that are part of an object with specified OID:

```
<filter>
  <ownedBy>
    <type>AccessCertificationCaseType</type> <!-- parent container -->
    <filter>
      <ownedBy>
        <type>AccessCertificationCampaignType</type> <!-- owning object -->
        <filter>
          <inOid>
            <value>a4397437-db99-413d-ae60-a437624dc8c8</value>
          </inOid>
        </filter>
      </ownedBy>
    </filter>
  </ownedBy>
</filter>
```


Saved filters

- User can now save often used searches, stored per user

The screenshot shows a 'Save filter' dialog box overlaid on a table. The dialog has a title 'Save filter' and a text input field labeled 'Filter name' containing the text 'Name starts with r/R'. Below the input field are 'Save' and 'Cancel' buttons. Red circles with numbers 1, 2, 3, and 4 highlight the search query field, the save filter icon, the filter name input, and the save button respectively.

Name	Display Name	Description	Identifier	Parent org. units	Projections
RAF					0
Root					0

The screenshot shows the Evolveum interface with a search for 'Name j'. A dropdown menu for 'Basic' search is open, showing a 'Saved filters' section with the entry 'Name contains "j"'. The table below shows the search results for 'Name j'.

Name	Given name	Family name	Full name	Email	Acco
jack	Jack	Sparrow	Jack Sparrow	jack@caribbean.com	

| Immediate GUI config and auth changes

- Most GUI configuration and authorization changes do not require logout
 - Changes in assignments, activation and GUI configuration for user...
 - ...or for roles, orgs, archetypes... directly or indirectly assigned to the user
- Changes in admin GUI configuration are applied without logout
- User deactivation results in logout/403 of the other session
 - validFrom/validTo applied via Validity Scanner every 15 minutes by default

Docs: <https://docs.evolveum.com/midpoint/reference/admin-gui/change-application/>

| MidPoint 4.6 “Baumgarten”

- New Resource Wizard
- New Self-service pages, including Request Access
- Smart correlation – item-based correlation, fuzzy-match
- Saved searches
- Assignment panel repository search
- New query filters (referencedBy, ownedBy)
- GUI and assignments changes applied without logout



| Supported platforms

- Production deployment: Linux (x86_64)
- Java 11, recommended Java 17 (both are LTS versions)
- Stand-alone deployment
 - JAR packaging only, WAR deployment is not possible anymore
- Native repository with PostgreSQL (v13, 14, 15)
 - The old Generic repository is deprecated (PG, Oracle, SQL Server)
 - Many new features are **not** supported with the old repository!
- Any recent version of Chrome, Firefox, Safari, Edge or Opera

- Distribution package now contains **lib/midpoint.jar** (not ***.war**)
 - WAR deployment on Tomcat is not supported since midPoint 4.5 and not possible with midPoint 4.6 (and has been deprecated since midPoint 4.1)
- No change needed if **bin/*.sh** scripts are used
- If custom **java ... -jar /.../midpoint.war** is used, including OS service definitions, the name must be fixed to ***.jar**
- *MidPoint Overlay* is not WAR overlay anymore, but simple Spring Boot repackaging.
 - See the example project: <https://github.com/Evolveum/midpoint-overlay-example>

- Smart correlation: <https://docs.evolveum.com/midpoint/reference/correlation/>
- Resource wizard: <https://docs.evolveum.com/midpoint/reference/admin-gui/resource-wizard/>
- Self-service: <https://docs.evolveum.com/midpoint/reference/admin-gui/self-service/>
- Request access: <https://docs.evolveum.com/midpoint/reference/admin-gui/request-access/>
- GUI Assignment Repository search:
<https://docs.evolveum.com/midpoint/guides/assignment-repository-search/>
- Saved filters (GUI User Profile): <https://docs.evolveum.com/midpoint/guides/gui-user-profile/>
- Notifications: <https://docs.evolveum.com/midpoint/reference/misc/notifications/>
- Axiom query language: <https://docs.evolveum.com/midpoint/reference/concepts/query/axiom-query-language/>
- Query API: <https://docs.evolveum.com/midpoint/reference/concepts/query/query-api/>
- Release notes:
<https://docs.evolveum.com/midpoint/release/4.6/>
<https://docs.evolveum.com/midpoint/release/4.5/>

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