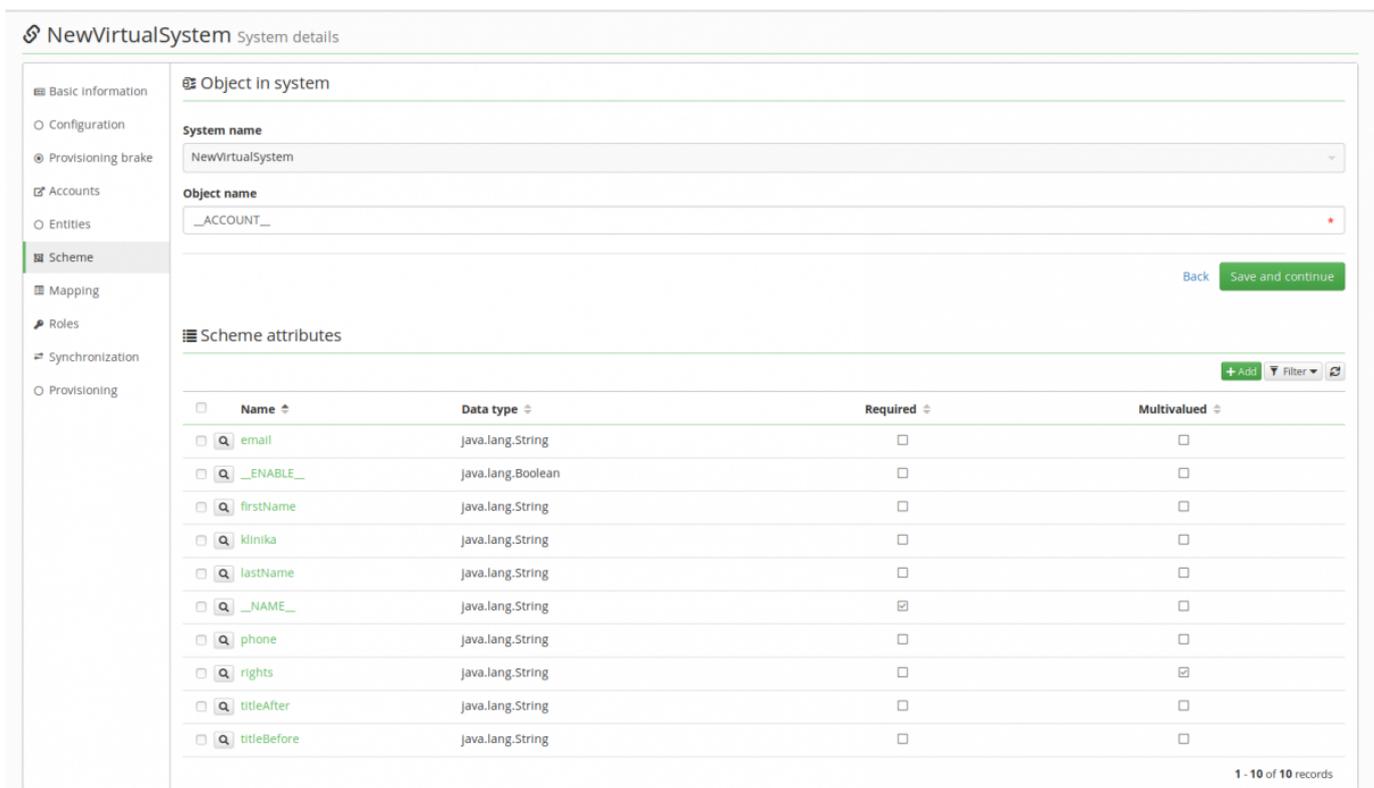


Virtual system - creating and using roles

system, virtual, tutorial, roles, rights

Introduction

If you followed the [quick start tutorial](#) to create a virtual system, you should find that among the attributes in your scheme, there is one called "'Rights' - multivalued merge attribute." This attribute represents the rights users of the managed system have. It can be best managed using roles, as we will show in this tutorial. They allow for an easier, safer and more regular rights management in connected systems.



The screenshot shows the 'NewVirtualSystem System details' page. The left sidebar contains a navigation menu with options: Basic information, Configuration, Provisioning brake, Accounts, Entities, Scheme (selected), Mapping, Roles, Synchronization, and Provisioning. The main content area is titled 'Object in system' and shows the 'System name' as 'NewVirtualSystem' and the 'Object name' as '___ACCOUNT__'. Below this is a 'Scheme attributes' table with columns for Name, Data type, Required, and Multivalued. The table lists 10 attributes, including 'rights' which is marked as multivalued.

Name	Data type	Required	Multivalued
email	java.lang.String	<input type="checkbox"/>	<input type="checkbox"/>
__ENABLE__	java.lang.Boolean	<input type="checkbox"/>	<input type="checkbox"/>
firstName	java.lang.String	<input type="checkbox"/>	<input type="checkbox"/>
klinika	java.lang.String	<input type="checkbox"/>	<input type="checkbox"/>
lastName	java.lang.String	<input type="checkbox"/>	<input type="checkbox"/>
__NAME__	java.lang.String	<input checked="" type="checkbox"/>	<input type="checkbox"/>
phone	java.lang.String	<input type="checkbox"/>	<input type="checkbox"/>
rights	java.lang.String	<input type="checkbox"/>	<input checked="" type="checkbox"/>
titleAfter	java.lang.String	<input type="checkbox"/>	<input type="checkbox"/>
titleBefore	java.lang.String	<input type="checkbox"/>	<input type="checkbox"/>

Step 1: create the role and assign it to the system

In the left panel, select Roles, Roles. Click the green button Add. Here, you have to fill the Code and Name fields. Click Save and continue.

The screenshot shows the 'Roles' management interface. On the left, there is a 'Select folder' panel with 'No results found'. The main area contains a search bar with the text 'Name, code, environment or description' and a dropdown menu set to 'Environment'. Below the search bar is a table with the following data:

<input type="checkbox"/>	Name	Code	Environment	Description	Inactive
<input type="checkbox"/>	1. klinika	1klinika			<input type="checkbox"/>
<input type="checkbox"/>	lékař	new			<input type="checkbox"/>
<input type="checkbox"/>	NewVirtualSystem-users	NewVirtualSystem-users			<input type="checkbox"/>
<input type="checkbox"/>	plicniklinika	plicniklinika			<input type="checkbox"/>
<input type="checkbox"/>	primář	primar			<input type="checkbox"/>
<input type="checkbox"/>	RoleForNewVirtualSystemMaster	VSrole-master			<input type="checkbox"/>
<input type="checkbox"/>	superAdminRole	superAdminRole			<input type="checkbox"/>

At the bottom right of the table, it says '1 - 7 of 7 records'.

The screenshot shows the 'New role' form. It has the following fields and options:

- Code:** A text input field with a red asterisk.
- Name:** A text input field with a red asterisk.
- Environment:** A dropdown menu with 'Select ...' and a downward arrow.
- Priority level:** A dropdown menu with 'None (0)' and a close button 'x'.
- Priority:** A text input field with '0' and a red asterisk.
- Role removal approval:**
- Can be requested:**
- Description:** A large text area.
- Inactive:**

At the bottom right, there are 'Back' and 'Save and continue' buttons.

Then click Systems in the Role details and click the green button Add. Select your virtual system in System and click Save. Once you do this, Attributes mapped within role should appear. Click Add.

sestra Role details

- Basic information
- More information
- Role attributes
- Business role
- Incompatible roles
- Role authorizers
- Role catalogue
- Permissions
- Automatic roles
- Users with role
- Systems**
- Accounts

Connected system

Role
sestra

System
NewVirtualSystem

Mapping
Default provisioning (Identity - Provisioning)

Forward account management
If checked, then an account on this system is created even though the assignment of this role to the user will be valid in the future.

Back Save

Attributes mapped within role

+ Add

No results found

0 - 0 of 0 records

Select the rights attribute in Attribute in system. Leave everything as is but specify the rights you want the user with this role to hold in Transformation to system. Simply write their rights in double quotes. Click save.

nurse Role details

Role [nurse] successfully saved.

Roles Requests

Basic information

Code
nurse

Name
nurse

Technical name.

Environment
Select ...

Environment for which the role is intended.

Priority level
None (0)

Priority
0

Role removal approval

Can be requested

Description

Inactive

Back Save and continue

User-defined name of this system attribute, overloaded by the role.

Strategy

Merge (only provisioning) ✕

Identifier

Send always

Send IdM value only if its not null

Extended attr.

Main form definition is supported only.

Entity attr.

Confidential attr.

Entity field

Select ...

IdM key

Name of entity attr., name of extended attr., or key to confidential storage.

Attribute is not mapped to any entity in CzechidM or extended attribute. Output will be a constant from 'Transformation to system'

Available scripts for transformation to resource

Select or type to search ...

After script selection, will be automatically insert code which calls selected script including sample parameters.

Transformation to system

```
1 "nurse!"
```

Allows value to be transformed from CzechidM into a form suitable for connected system. Input parameters of this Groovy script are value of attribute 'attributeValue', idM entity 'entity' and account identifier 'uid'. If output value is empty, system automatically uses available account identifier (uid).

[Back](#) [Save](#)

Step 2: assign the role to a user

In this step, you assign the role to a user in the same way you would any other. Click Users in the left panel and select the user to whom you want to assign the newly created role. Click Request to change roles.

Mike Pine (mike.pine) Dashboard

Mike Pine (mike.pine)

[Show full detail](#) [Change password](#) [Request to change roles](#) [Deactivate - \(manually\)](#)

Directly assigned roles [Show full detail](#)

Role	Code	Environment	Role attributes	Contracted position	Valid from	Valid till
NewVirtualSystem-users	NewVirtualSystem-users			Default		

1 - 1 of 1 records

Contracted positions [Show full detail](#)

Name of the position	Position	Valid from	Valid till	State	External contractor
Default					

1 - 1 of 1 records

Assigned tasks

[All assigned tasks are resolved.](#)

BCV solutions s.r.o. | [Help](#) | [ServiceDesk](#) | [About app](#)

Now under Current assigned roles (includes requested changes) click the green button Add and select the role you've created. Click Set, then click Submit a request.

Request to change roles

Requested for
Mike Pine (mike.pine)
Show profile

State
Concept

Description
Verbal description of a request to change assigned roles

Current assigned roles (includes requested changes)

Role	Role attributes	Contracted position	Valid from	Valid till	Assigned by role	Automatic role	Actions
NewVirtualSystem-users		Default				<input type="checkbox"/>	

Back Save Submit a request

Add roles

Environment
Environment for which the role is intended.

Role
nurse

Contracted position
Default
Connection to organization or another tree structure

Valid from **Valid till**

Close Set

If you now look under Virtual systems and Requests, you will see that the implementer is notified and has to confirm whether or not the change in rights in the connected system was performed.

Request

Unresolved requests Archive

Date
UID (account identifier) System

UID	System name	Type	State	Without confirmation	Implementers	Created	Creator
mike.pine	NewVirtualSystem	Update	Unresolved	<input type="checkbox"/>	admin	06.06.2019 08:57:50	[SYSTEM]

1 - 1 of 1 records

BCV solutions s.r.o. | Help | ServiceDesk | About app

The screenshot shows the 'czechidm' web interface. On the left is a navigation menu with items like Dashboard, Tasks, Users, Organization, Roles, Systems, Virtual systems, Requests, Reports, Audit, Notifications, and Settings. The main content area is titled 'Detail of the request for implementation'. It shows a request for a 'NewVirtualSystem' with UID 'mike.pine', state 'Unresolved', and type 'Update'. Below this is a table of 'Target state on the system' with columns for Attribute, Target value, and Previous value. The 'rights' attribute is highlighted in yellow and has a 'force' button next to it. At the bottom, there are sections for 'Previous unresolved requests' and 'Next unresolved requests'.

Attribute	Target value	Previous value
__ENABLE__	true	true
__NAME__	mike.pine	mike.pine
building	building no 1	building no 1
email		
firstName	Mike	Mike
klinika	první klinika	první klinika
lastName	Pine	Pine
phone		
rights	force	
titleAfter		
titleBefore		

From: <https://wiki.czechidm.com/> - IdStory Identity Manager

Permanent link: https://wiki.czechidm.com/tutorial/adm/virtual_system_-_creating_and_using_roles

Last update: 2023/02/03 13:46

