

Task Scheduler - create and configure a trigger

A trigger is a tool in CzechIdM that initiates scheduled tasks. At the moment, there are three types of triggers. We can schedule a task to commence just once, periodically or after another scheduled task has successfully finished. Let's start with newly created scheduled tasks. (Tutorial for [scheduled tasks](#))

Scheduler

Running tasks

Scheduled tasks

All tasks

+ Add

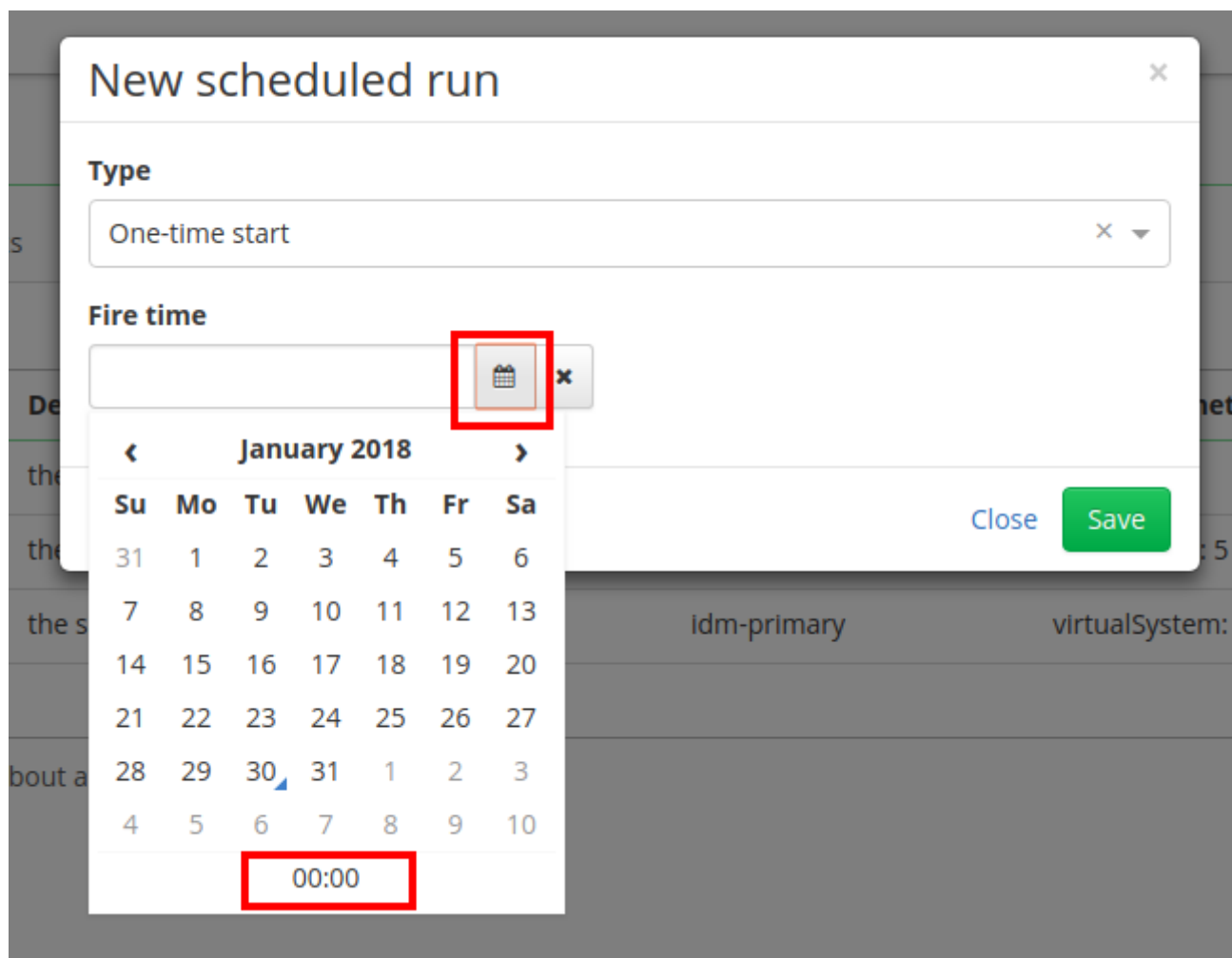
↺

Task type	Description	Instance	Task parameters	Scheduled starts	Actions	Id
HrEnableContractProcess	the third scheduled task	idm-primary		<div>+ Add</div>	<div> </div>	4f8f136
PasswordExpirationWarningTaskExecutor	the first scheduled task	idm-primary	days before: 5	<div>+ Add</div>	<div> </div>	4f8f136
ProvisioningQueueTaskExecutor	the second scheduled task	idm-primary	virtualSystem:	<div>+ Add</div>	<div> </div>	4f8f136

1 - 3 of 3 records

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So we have three scheduled tasks, none of them has any trigger. Let's start with the first scheduled task (by description). Click on the **Add** button in **Scheduled starts** and a pop-up window will show up.



On **the first scheduled task** we will configure a trigger which will start the scheduled task just once. For type, choose **One-time start** and in **Fire time** by clicking on "calendar" select the date and at the bottom of the calendar menu click on "hours" and select the time.

Scheduler

Running tasks | **Scheduled tasks** | All tasks

Task type	Description	Instance	Task parameters	Scheduled starts	Actions	Id
HrEnableContractProcess	the third scheduled task	idm-primary				4f8f136
PasswordExpirationWarningTaskExecutor	the first scheduled task	idm-primary	days before: 5	31.01.2018 08:00:00		4f8f136
ProvisioningQueueTaskExecutor	the second scheduled task	idm-primary	virtualSystem:			4f8f136

1 - 3 of 3 records

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We have now configured a scheduled task and a date is set when it will be initiated. After that start, the trigger will disappear and we can select a new trigger. Now click the **Add** trigger button next to **the second scheduled task**.

New scheduled run

Type

Cron

Cron expression

0 0 7 * * ?

Quartz cron [expression](#)

Close Save

Now select the trigger type **Cron**. In **Cron expression** field you can add an expression which could start the scheduled task periodically. We set **0 0 7 * * ?**, meaning the scheduled task will be started every day at 7 AM. (Cron expression tutorial:

<http://www.quartz-scheduler.org/documentation/quartz-2.3.0/tutorials/crontrigger.html>)

Other common combinations:

- **0 0 * * * ?** - start the task every hour

Scheduler

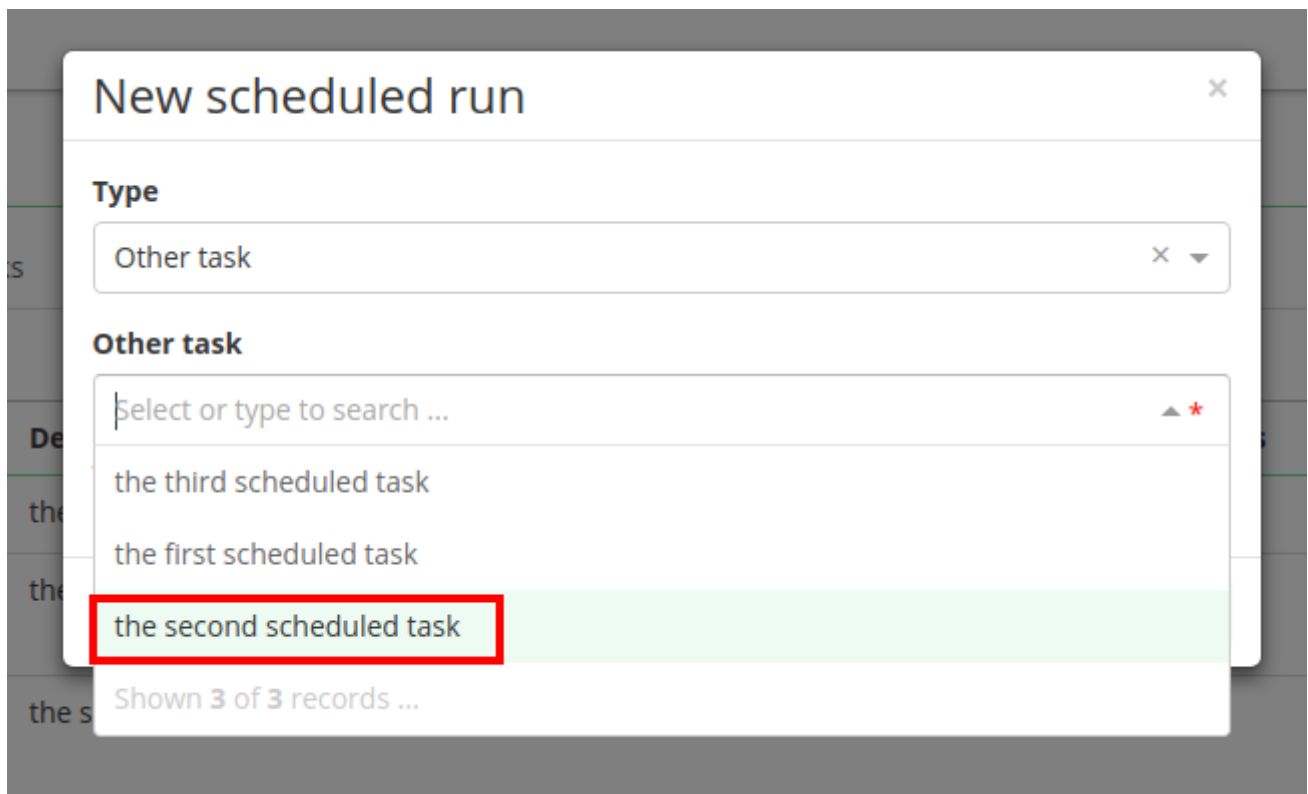
Running tasks | **Scheduled tasks** | All tasks

Task type	Description	Instance	Task parameters	Scheduled starts	Actions	Id
HrEnableContractProcess	the third scheduled task	Idm-primary		+ Add	Stop Play Refresh	4f8f136
PasswordExpirationWarningTaskExecutor	the first scheduled task	Idm-primary	days before: 5	31.01.2018 08:00:00 ✖ + Add	Stop Play Refresh	4f8f136
ProvisioningQueueTaskExecutor	the second scheduled task	Idm-primary	virtualSystem:	31.01.2018 07:00:00 ✖ + Add	Stop Play Refresh	4f8f136

1 - 3 of 3 records

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In the picture above, we can see another trigger and the next scheduled start is tomorrow on 31st January at 7 AM. This trigger will not disappear after that date, but will be updated to another start.



Now we add the trigger to the last scheduled task and in **Type** select **Other task**. In **Other task** field select another scheduled task, but as you can see on the picture above, scheduled tasks are represented by their description, because there can be more scheduled tasks with same task type. In this tutorial we selected **the second scheduled task**.

Scheduler

Running tasks | **Scheduled tasks** | All tasks


Task type	Description	Instance	Task parameters	Scheduled starts	Actions	Id
HrEnableContractProcess	the third scheduled task	idm-primary		ProvisioningQueueTaskExecutor ✖ + Add	🗑️ ▶️ ⏸️	4f8f136
PasswordExpirationWarningTaskExecutor	the first scheduled task	idm-primary	days before: 5	31.01.2018 08:00:00 ✖ + Add	🗑️ ▶️ ⏸️	4f8f136
ProvisioningQueueTaskExecutor	the second scheduled task	idm-primary	virtualSystem:	31.01.2018 07:00:00 ✖ + Add	🗑️ ▶️ ⏸️	4f8f136

1 - 3 of 3 records

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In the picture above, you can see **the third scheduled task** has a trigger with another task. After this task (in our case **the second task**) has successfully finished, **the third scheduled task** will start.

Task parameters	Scheduled starts
	<div>ProvisioningQueueTaskExecutor Show info card</div>
days before: 5	
virtualSystem:	

 Scheduled task

Task type	ProvisioningQueueTaskExecutor
Description	the second scheduled task
Parameters	virtualSystem:

If we click on the scheduled task in trigger, a pop-up will show the details of that scheduled task.

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