

Modules - Certificates: - Scheduled tasks and notifications

In this tutorial, we will create a new scheduled task. This scheduled task will send a notification when certificates will be a few days before expiring.

What do you need before you start

- You need install **CzechIdM 7.7.0** (and higher).
- You need be logged in as **admin**.
- You need enable **Certificate** module.

Create scheduled task

In the left menu select **Settings** and then **Task scheduler**. And click on **Add** button.

The screenshot shows the CzechIdM web interface. In the left sidebar, the 'Settings' menu item is highlighted, and under it, 'Task scheduler' is selected. The main content area is titled 'Scheduler' and has tabs for 'Running tasks', 'Scheduled tasks', and 'All tasks'. The 'Scheduled tasks' tab is active, displaying a table of scheduled tasks. The table has columns: Task type, Description, Instance, Task parameters, Scheduled starts, Actions, and Id. An 'Add' button is highlighted in the top right corner of the table. The table contains several rows of tasks, including 'CertificateExpiredTaskExecutor', 'CertificateRequestRefreshTaskExecutor', 'HrContractExclusionProcess', 'HrEnableContractProcess', 'HrEndContractProcess', 'IdentityContractExpirationTaskExecutor', 'IdentityRoleExpirationTaskExecutor', and 'IdentityRoleValidRequestTaskExecutor'.

Task type	Description	Instance	Task parameters	Scheduled starts	Actions	Id
CertificateExpiredTaskExecutor	Default	ldm-primary		15.02.2018 01:00:00	[Add] [Stop] [Start] [Refresh]	4f8f136
CertificateRequestRefreshTaskExecutor	Default	ldm-primary		15.02.2018 01:00:00	[Add] [Stop] [Start] [Refresh]	4f8f136
HrContractExclusionProcess	Default	ldm-primary	PasswordExpirationWarningTaskExecutor		[Add] [Stop] [Start] [Refresh]	4f8f136
HrEnableContractProcess	Start of contract's validity.	ldm-primary		15.02.2018 01:45:00	[Add] [Stop] [Start] [Refresh]	4f8f136
HrEndContractProcess	Default	ldm-primary			[Add] [Stop] [Start] [Refresh]	4f8f136
IdentityContractExpirationTaskExecutor	Remove roles by expired identity contracts (=> removes assigned roles).	ldm-primary		15.02.2018 01:00:00	[Add] [Stop] [Start] [Refresh]	4f8f136
IdentityRoleExpirationTaskExecutor	Remove expired roles.	ldm-primary		15.02.2018 01:15:00	[Add] [Stop] [Start] [Refresh]	4f8f136
IdentityRoleExpirationTaskExecutor	589	ldm-primary			[Add] [Stop] [Start] [Refresh]	4f8f136
IdentityRoleValidRequestTaskExecutor	Start of assigned role's validity.	ldm-primary		15.02.2018 01:30:00	[Add] [Stop] [Start] [Refresh]	4f8f136
IdentityRoleValidRequestTaskExecutor	Create new account for roles that was newly valid.	ldm-primary		15.02.2018 02:00:00	[Add] [Stop] [Start] [Refresh]	4f8f136

In a popup window choose **CertificateExpirationWarningOwnerTaskExecutor** and fill in a number of days before a certificate will expire you want to receive notification, in our tutorial it is 3. (There is another scheduled task **CertificateExpirationWarningAdminTaskExecutor**, which is similar, just notification is sent to users with role defined in scheduled task.)

Create task

Task type

CertificateExpirationWarningOwnerTaskExecutor

Description

Sends warning notifications before certificate expires to certificate owner.

Instance

idm-primary

Execute on server (Instance identifier)

Task parameters

days before

3

Close

Save

As you can see in the following picture, there is now new scheduled task with a parameter of **3 days before**. In column **Action** there is a green button "play" and by clicking on it, the scheduled task will start. (If you want to start this task automatically, look in tutorial about [triggers](#).)
















Scheduler

Running tasks

Scheduled tasks

All tasks

+ Add

Task type	Description	Instance	Task parameters	Scheduled starts	Actions	Id
CertificateExpirationWarningOwnerTaskExecutor	Sends warning notifications before certificate expires to certificate owner.	idm-primary	days before: 3	+ Add	  	4f8f136
CertificateExpiredTaskExecutor	Default	idm-primary		15.02.2018 01:00:00    + Add	  	4f8f136
CertificateRequestRefreshTaskExecutor	Default	idm-primary		15.02.2018 01:00:00    + Add	  	4f8f136

Scheduled task will send a notification to the owner of the certificate when certificate would expire in 3 days.

Recipients

Administrator (admin)

Message (html)

Message (rendered html)

Dobrý den,
platnost vašeho certifikátu na systému CzechIdM se blíží ke konci, do vypršení zbývá méně než **3** dní.

Typ certifikátu: **AUTHENTICATION**Sériové číslo: **AAACCC0002BC97B5C754C1BFE9C994BD**Certifikační autorita: **CN=John Doe, OU=Doe, O=John, L=Atlantis, ST=Venus, C=CZ**Platnost do: **16.02.2018 01:00**Před vypršením platnosti můžete certifikát obnovit zde: <http://localhost:3000/#/identity/admin/certificates>.

S pozdravem BCV Solutions s.r.o.

Hello,
your certificate on CzechIdM system is near to expire, less than **3** days left.

Certificate type: **AUTHENTICATION**Serial number: **AAACCC0002BC97B5C754C1BFE9C994BD**Certificate authority: **CN=John Doe, OU=Doe, O=John, L=Atlantis, ST=Venus, C=CZ**Valid till: **16.02.2018 01:00**You can renew your certificate before expiration here: <http://localhost:3000/#/identity/admin/certificates>.

Regards BCV Solutions Ltd.

Congratulations, now your certificates will never expire.

Notification configuration

In this part of tutorial, there are mentioned a few certificate notifications, which can be easily configured. The configuration of these notifications is in the left menu **Settings→Configuration**.

Configured notification topics (email by default):

- **certificateExpiredOwner** - When a certificate is expired, notification is sent to certificate owner.
 - Can be disabled by property `idm.sec.crt.processor.certificate-expired-notification-owner-processor.enabled=false`.
- **certificateExpiredAdmin** - When a certificate is expired, notification is sent to certificate admin.
 - Certificate admins are identities with role configured by property `idm.sec.crt.processor.certificate-expired-notification-admin-processor.adminRole`. When no identity is found, then notification isn't sent.
 - Can be disabled by property `idm.sec.crt.processor.certificate-expired-notification-admin-processor.enabled=false`.
- **certificateRevokedOwner** - When a certificate is revoked, notification is sent to certificate owner.
 - Can be disabled by property `idm.sec.crt.processor.certificate-revoked-notification-owner-processor.enabled=false`.
- **certificateRevokedAdmin** - When a certificate is revoked, notification is sent to certificate

admin.

- Certificate admins are identities with role configured by property `idm.sec.crt.processor.certificate-revoked-notification-admin-processor.adminRole`. When no identity is found, then notification isn't sent.
- Can be disabled by property `idm.sec.crt.processor.certificate-revoked-notification-admin-processor.enabled=false`.
- **certificateCreatedOwner** - When a certificate is created, notification is sent to certificate owner.
 - Can be disabled by property `idm.sec.crt.processor.certificate-created-notification-owner-processor.enabled=false`.
- **certificateCreatedAdmin** - When a certificate is created, notification is sent to certificate admin.
 - Certificate admins are identities with role configured by property `idm.sec.crt.processor.certificate-created-notification-admin-processor.adminRole`. When no identity is found, then notification isn't sent.
 - Can be disabled by property `idm.sec.crt.processor.certificate-created-notification-admin-processor.enabled=false`.
- **requestApproved** - When a certificate request is approved, notification is sent to certificate owner.
- **requestDisapproved** - When a certificate request is disapproved, notification is sent to certificate owner.
- **certificateCreatedPasswordOwner** - notification with new password generates or filled during creating certificate.

Each topic has a template with the same name with Crt prefix in module resources.

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

Permanent link:
https://wiki.czechidm.com/tutorial/adm/modules_crt_lrt_notification?rev=1548942620

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