

Tasks

Version Warning



The content below is for Apache Syncope <= 1.2 - for later versions the [Reference Guide](#) is available.

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Introduction

This wiki page aims to show how to manage tasks by using Syncope console.

Tasks can be divided into:

- [Propagation task](#)
 1. Creates, updates and deletes performed on an external resource.
 2. All the propagated operations are traced in respect of the trace level configured for the target [external resource](#).
- [Notification task](#)
 1. Notifications sent on events happened.
 2. Notifications to be sent are configured as described at [Notification Management](#).
- [Scheduled task](#)
 1. Custom jobs to be performed manually or automatically.
- [Synchronization task](#)
 1. Synchronizations (from external resources to Syncope) to be performed manually or automatically.
- [Push task](#) (>= 1.2.0 only)
 1. Synchronizations (from Syncope to external resources) to be performed manually or automatically.

Propagation Task

1. Click on tab *Tasks*.
2. Click on subtab *Propagation Tasks*.

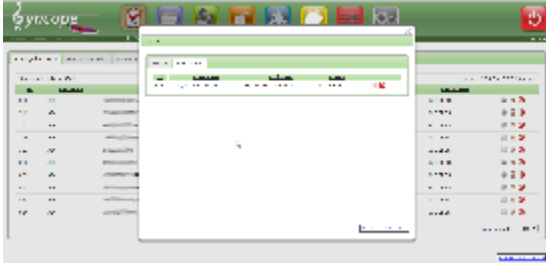


- a. For each propagation task, information below are shown.
 - *Id*
 - Task identifier (automatically generated).
 - *Resource*
 - Resource on which operation has been propagated.

- *AccountId*
 - SyncopelUser identifier for which propagated operation is about.
- *Propagation Mode*
 - For more details about propagation modes take a look at [Propagation Mode](#).
- *Propagation Operation*
 - Propagated operation.
- *Last Status*
 - Last execution status.

View Task

1. Click on tab *Tasks*.
2. Click on subtab *Propagation Tasks*.
3. Click on *Edit* link in order to take a look at task details.



4. Click on *Executions* tab in order to have detailed information about each execution of the task.
 - a. For each execution the following information are provided
 - *id*
 - Execution identifier (automatically generated).
 - *Start date*
 - Date and time of execution start-up.
 - *End date*
 - Date and time of execution completion.
 - *Status*
 - Execution status.
 - Successful statuses are: *SUCCESS* for ONE_PHASE propagation and TWO_PHASE propagation at "step 2"; *SUBMITTED* for TWO_PHASE propagation at "step 1".
 - Failure statuses are: *FAILURE* for ONE_PHASE propagation and TWO_PHASE propagation at "step 2"; *UNSUBMITTED* for TWO_PHASE propagation at "step 1".
 - For more details about propagation statuses take a look at [Propagation Mode](#).
 - *Message*
 - Click on *Show* in order to show returned message (if provided).
 - *Delete*
 - Click on *Delete* in order to remove an execution.

[Re-]Execute Task

1. Click on tab *Tasks*.
2. Click on subtab *Propagation Tasks*.
3. Click on *Execute* link in order to execute a task.

Delete Task

1. Click on tab *Tasks*.
2. Click on subtab *Propagation Tasks*.
3. Click on *Delete* link in order to remove a task.
4. Confirm operation.

Notification Task

1. Click on tab *Tasks*.
2. Click on subtab *Notification Tasks*.



- For each propagation task, information below are shown.
- *Id*
 - Task identifier (automatically generated).
- *Sender*
 - Configured e-mail sender (please, take a look at [Notification Management](#) for more details)

- *Recipients*
 - Configured e-mail recipients (please, take a look at [Notification Management](#) for more details)
- *Subject*
 - Configured e-mail subject (please, take a look at [Notification Management](#) for more details)
- *Trace level*
 - Configured trace level (please, take a look at [Notification Management](#) for more details)
- *Last Status*
 - Last execution status.

View Task

1. Click on tab *Tasks*.
2. Click on subtab *Notification Tasks*.
3. Click on *Edit* link in order to take a look at task details.



4. Click on *Executions* tab in order to have detailed information about each execution of the task.



- a. For each execution the following information are provided
 - *id*
 - Execution identifier (automatically generated).
 - *Start date*
 - Date and time of execution start-up.
 - *End date*
 - Date and time of execution completion.
 - *Status*
 - Execution status (SENT or NOT_SENT).
 - *Message*
 - Click on *Show* in order to show returned message (if provided).
 - *Delete*
 - Click on *Delete* in order to remove an execution.

[Re-]Execute Task

1. Click on tab *Tasks*.
2. Click on subtab *Notification Tasks*.
3. Click on *Execute* link in order to execute a task.

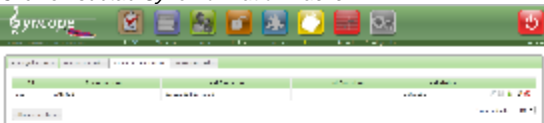
Delete Task

1. Click on tab *Tasks*.
2. Click on subtab *Notification Tasks*.
3. Click on *Delete* link in order to remove a task.
4. Confirm operation.

Synchronization Task

1. Click on tab *Tasks*.

2. Click on subtab *Synchronization Tasks*



- a. For each sync task, information below are shown.
- *Id*
 - Task identifier (automatically generated).
 - *Resource Name*
 - Resource to be synchronized.
 - *Last Execution*
 - Last date and time job execution.
 - *Next Execution*
 - Next date and time job execution.
 - *Last Status*
 - Last execution status.

Create Task

1. Click on tab *Tasks*.
2. Click on subtab *Synchronization Tasks*.
3. Click on *Create new task* button.



4. Click on *Profile* tab and provide the following information.
 - a. *Resource Name*
 - Resource to be synchronized.
 - b. *Actions Class*
 - Java class implementing actions to be performed during synchronization.
 - For more details take a look at [Synchronization Actions Class](#)
 - c. *Create new identities*
 - Check it in order to synchronize identities which don't exist.
 - d. *Update matched identities*
 - Check it in order to synchronize identities which exist.
 - e. *Delete matched identities*
 - Check it in order to synchronize retrieved identity deletions.
5. Click on *Schedule* tab to schedule task executions.



- a. Provide a [Quartz Cron Expression](#) (you can use an expression template by selecting it into the combo-box provided).
6. Click on *Save* button to save task.

Edit/View Task

Synchronization tasks can be modified following the steps below.

Using the same steps it is possible to check execution statuses as well.

1. Click on tab *Tasks*.

2. Click on subtab *Synchronization Tasks*.



3. Click on *Edit* link in order to take a look at task details.

4. Click on *Schedule* tab in order to specify a schedule for the task.

5. Click on *Executions* tab in order to have detailed information about each execution of the task.



a. For each execution the following information are shown.

- *id*
 - Execution identifier (automatically generated).
- *Start date*
 - Date and time of execution start-up.
- *End date*
 - Date and time of execution completion.
- *Status*
 - Execution status.
- *Message*
 - Click on *Show* in order to show returned message (if provided).
- *Delete*
 - Click on *Delete* in order to remove an execution.

6. Click on *Save* button to save changes.

Specify User Template

Specify a user template to assign default parameters to each synchronized user.

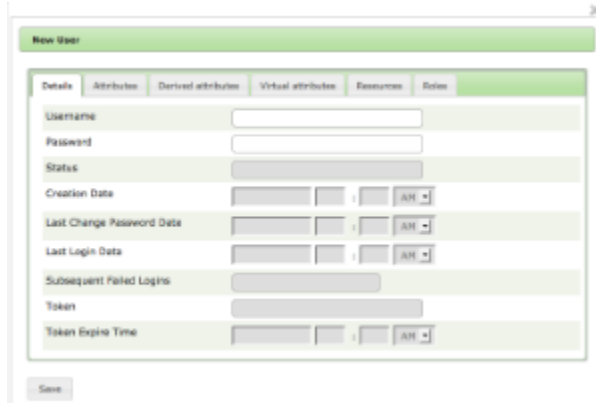
1. Click on tab *Tasks*.

2. Click on subtab *Synchronization Tasks*.

3. Click on *Edit* link (corresponding to *User template* column) in order to configure a user template.

A screenshot of the 'New User' form in the YRCODE application. The form has a green header with the title 'New User' and a close button. Below the header, there are several tabs: 'Details', 'Attributes', 'Derived attributes', 'Virtual attributes', 'Resources', and 'Roles'. The 'Attributes' tab is selected. The form contains several input fields for user attributes, each with a label and a value: 'ceid (JEK)' with an empty field; 'userid (JEK)' with an empty field; 'email (JEK)' with the value 'username + '@gmail.com'; 'gender (JEK)' with an empty field; 'surname (JEK)' with an empty field; 'loginDate (JEK)' with an empty field; 'activationDate (JEK)' with an empty field; 'firstname (JEK)' with an empty field; 'type (JEK)' with an empty field; and 'fullName (JEK)' with the value 'firstname + " " + surname'. A 'Save' button is located at the bottom left of the form.

- a. Click on *Details* tab..



- Provide default values for username and password.
 - Values must be provided using a [JEXL expression](#).
- b. Click on *Attributes* tab.
 - Provide default value for one or more user attributes.
 - Values must be provided using a [JEXL expression](#).
 - c. Click on *Derived Attributes* tab.
 - Provide derived attributes to be assigned by default.
 - d. Click on *Virtual Attributes* tab.
 - Provide default value for one or more virtual user attributes.
 - Values must be provided using a [JEXL expression](#).
 - e. Click on *Resources* tab.
 - Provide external resource to be automatically assigned to each synchronized user.
 - f. Click on *Roles* tab.
 - Provide roles to be automatically assigned to each synchronized user.
4. Click on *Save* button to save changes.

[Re-]Execute Task

1. Click on tab *Tasks*.
2. Click on subtab *Synchronization Tasks*.
3. Click on *Execute* link in order to force job execution.

Dry Run


1. Click on tab *Tasks*.
2. Click on subtab *Synchronization Tasks*.
3. Click on *Dry run* link in order to execute.

Delete Task

1. Click on tab *Tasks*.
2. Click on subtab *Synchronization Tasks*.
3. Click on *Delete* link in order to remove a task.
4. Confirm operation.

Push Task

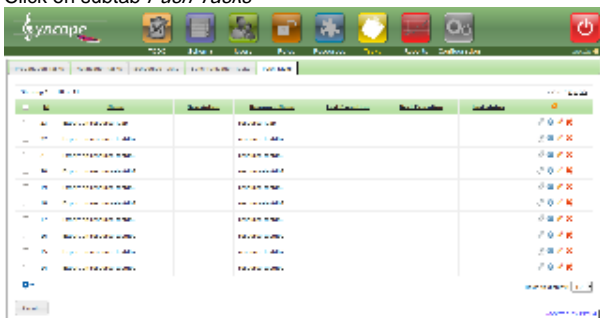
Version warning

 Content of this section applies to Apache Syncope >= 1.2.X

This tasks are used to synchronize users/groups from Apache Syncope to external resources. Take a look at [Push Task](#) for more details.

1. Click on tab *Tasks*.

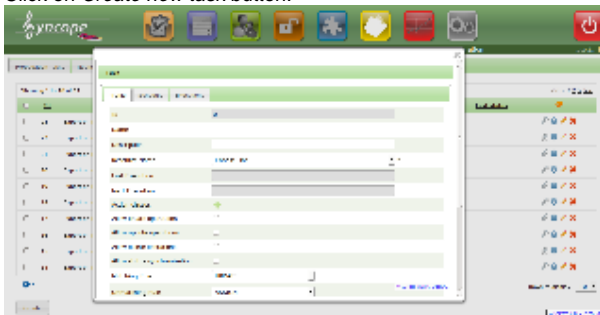
2. Click on subtab *Push Tasks*



- a. For each push task, information below are shown.
- *Id*
 - Task identifier (automatically generated).
 - Name
 - Task name
 - Description
 - Task description
 - *Resource Name*
 - Resource to be synchronized.
 - *Last Execution*
 - Last date and time job execution.
 - *Next Execution*
 - Next date and time job execution.
 - *Last Status*
 - Last execution status.

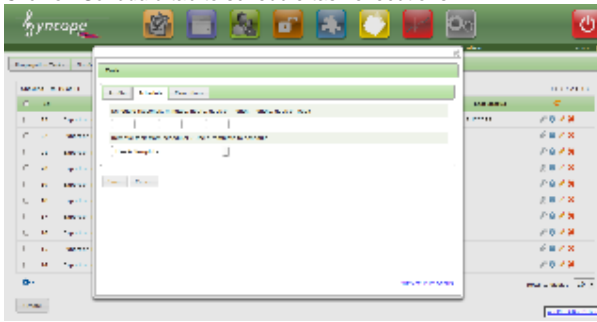
Create Task

1. Click on tab *Tasks*.
2. Click on subtab *Push Tasks*.
3. Click on *Create new task* button.



4. Click on *Profile* tab and provide the following information.
 - a. *Name*
 - b. *Description*
 - c. *Resource Name*
 - Resource to be synchronized.
 - d. *Actions Class*
 - Java class implementing actions to be performed during synchronization.
 - For more details take a look at [Synchronization Actions Class](#)
 - e. *Allow create operations*
 - Check it in order to be able to provision unmatched entities (see [matching/unmatching rules](#) for more details).
 - f. *Allow update operations*
 - Check it in order to be able to perform local/remote changes.
 - g. *Allow delete operations*
 - Check it in order to be able to de-provision matching entities (see [matching/unmatching rules](#) for more details).
 - h. *Allow status synchronization*
 - Check it in order to propagate user status as well.
 - i. *Matching Rule*
 - j. *Unmatching Rule*
 - k. *User Filter*
 - Check it and provide a filter to restrict the set of push involved user data
 - l. *Role Filter*
 - Check it and provide a filter to restrict the set of push involved role data

- Click on *Schedule* tab to schedule task executions.



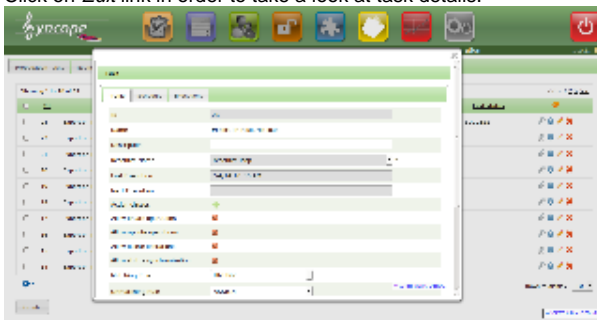
- Provide a [Quartz Cron Expression](#) (you can use an expression template by selecting it into the combo-box provided).
- Click on *Save* button to save task.

Edit/View Task

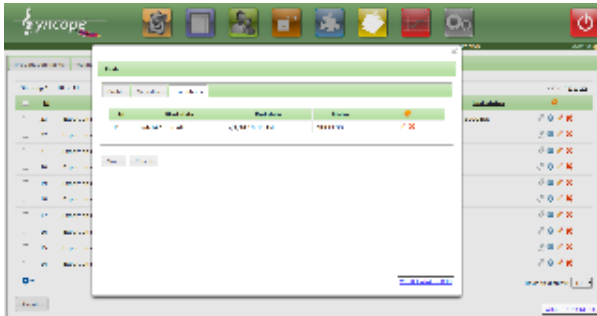
Push tasks can be modified following the steps below.

Using the same steps it is possible to check execution statuses as well.

- Click on tab *Tasks*.
- Click on subtab *Push Tasks*.
- Click on *Edit* link in order to take a look at task details.



- Click on *Schedule* tab in order to specify a schedule for the task.
- Click on *Executions* tab in order to have detailed information about each execution of the task.



- For each execution the following information are shown.
 - id*
 - Execution identifier (automatically generated).
 - Start date*
 - Date and time of execution start-up.
 - End date*
 - Date and time of execution completion.
 - Status*
 - Execution status.
 - Message*
 - Click on *Edit* in order to show returned message (if provided).
 - Delete*
 - Click on *Delete* in order to remove an execution.
- Click on *Save* button to save changes.

[Re-]Execute Task

- Click on tab *Tasks*.
- Click on subtab *Push Tasks*.
- Click on *Execute* link in order to force job execution.

Dry Run

1. Click on tab *Tasks*.
2. Click on subtab *Push Tasks*.
3. Click on *Dry run* link in order to execute.

Delete Task

1. Click on tab *Tasks*.
2. Click on subtab *Push Tasks*.
3. Click on *Delete* link in order to remove a task.
4. Confirm operation.

Scheduled Task

1. Click on tab *Tasks*.
2. Click on subtab *Scheduled Tasks*.



- a. For each scheduled task, information below are shown.
 - *Id*
 - Task identifier (automatically generated).
 - *Class*
 - Java class implementing the job.
 - *Last Execution*
 - Last date and time job execution.
 - *Next Execution*
 - Next date and time job execution.
 - *Last Status*
 - Last execution status.

Create Task

1. Click on tab *Tasks*.
2. Click on subtab *Synchronization Tasks*.
3. Click on *Create new task* button.
4. Click on *Profile* tab and provide the following information.
 - *Class*
 - Java class implementing task job to be executed.
 - For more information about task job class implementation take a look at [Scheduled Task Job Class](#).
5. Click on *Schedule* tab to schedule task executions.
 - Provide a [Quartz Cron Expression](#) (you can use an expression template by selecting it into the combo-box provided).
6. Click on *Save* button to save task.

Edit/View Task

Scheduled tasks can modified following the steps below.

Using the same steps it is possible to check execution statuses as well.

1. Click on tab *Tasks*.
2. Click on subtab *Scheduled Tasks*.
3. Click on *Edit* link in order to take a look at task details.
 1. Click on *Schedule* tab in order to specify a schedule for the task.
 2. Click on *Executions* tab in order to have detailed information about each execution of the task.
 - a. For each execution the following information are provided
 - *id*
 - Execution identifier (automatically generated).
 - *Start date*
 - Date and time of execution start-up.
 - *End date*
 - Date and time of execution completion.
 - *Status*
 - Execution status.

- *Message*
 - Click on *Show* in order to show returned message (if provided).
 - *Delete*
 - Click on *Delete* in order to remove an execution.
3. Click on *Save* button to save changes.

[Re-]Execute Task

1. Click on tab *Tasks*.
2. Click on subtab *Scheduled Tasks*.
3. Click on *Execute* link in order to force job execution.

Delete Task

1. Click on tab *Tasks*.
2. Click on subtab *Scheduled Tasks*.
3. Click on *Delete* link in order to remove a task.
4. Confirm operation.