MidPoint Community Meetup 2025

Tasks improvements
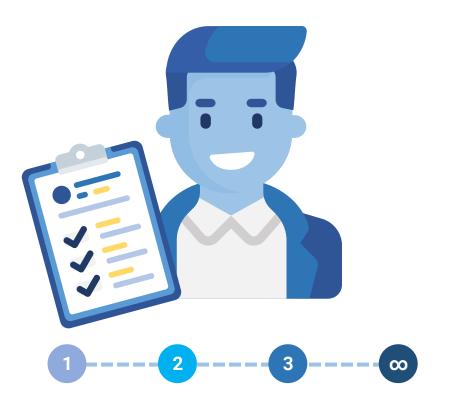
Sponsored feature

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Agenda

- Task UI improvements

  - List columns cleanup
    - Removed obsolete columns
    - Removed technical data
      - Suspended task in progress
    - Some merged together
  - Task details
  - Task errors searching/navigation

- Task policies

  - Features
  - Configuration

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Old vs New

	Name	Category	Execution	Object reference	Executing at	Current run time	Scheduled to start again	Progress	Errors	Status			
☐ 🗑	Cleanup	Cleanup task	Runnable				Will run in 21 hours 26 minutes 1 second.	Complete	0	✅			
☐ ⇄	Execution of Approving and executing change of user "u10664-99" (started Apr 25, 2025, 10:21:17 AM)	Approval-re lated task	Closed	Approving and executing change of user "u10664-99" (started Apr 25, 2025, 10:21:17 AM)		closed at 4/25/25, 10:23:18 AM		0		✅			

				Will run in 1 minute 1 second.	0	0	✅		
				Will run in 11 minutes 1 second.	0	0	✅		
				closed at 4/28/25, 5:15:49 PM	100.0%	0	✅		

Rows per page [100 ▾]   1 to 5 of 5   << < **1** > >>

Object collection [Undefined ▾] ✕ Name ⓘ [   ] ✕ More... ▾ 🔍 Basic ▾ 💾

	Name	Object reference	Execution	Status		
☐ 🗑	Cleanup		Suspended	✅ 100.0%		
☐ 🗑	Closed tasks cleanup		Closed at 2/25/25, 9:12:34 PM	✅ 100.0%		
☐ ◎	Delete users		Closed at 3/6/25, 10:04:58 PM	✅ 100.0%		
☐ ◎	Execute log on objects 1 to 1		Closed at 3/17/25, 11:15:41 AM	✅ 0		
☐ ◔	Export task for Changed item audit report (2025-04-22 13:54:14)	▼ Changed item audit report	Closed at 4/22/25, 1:54:14 PM	✅ 100.0%		
☐ ◔	Export task for report mid-10659 (2025-04-24 14:08:32)	◔ report mid-10659	Closed at 4/24/25, 2:08:33 PM	❌ 1.4% ⚠ 1		
☐ 🔄	Live Sync: LDAP Server (OpenLDAP)	🗄	Suspended	✅ 1		
☐ 🔄	Live sync for something or other		Suspended	❓ 0		
☐ ☰	Simple noop 6s		Suspended ⚠ Policy violation, rule: Max. 6s execution	⏸ 26.1%		
☐ 💾	Trigger Scanner		Suspended	✅ 9 ⚠ 1		
☐ 💾	Validity Scanner		Suspended	✅ 1 ⚠ 1		
☐ ☰	_Composite activity task	🗄 CSV	Suspended ⚠ Policy violation, rule: 4 seconds policy	⏸ 14.8% in 2/3 in 2/3		
☐ ☰	_Composite activity task	🗄 CSV	Closed at 2/27/25, 10:03:16 AM	❌ 100.0% ⚠ 9		
☐ ☰	_Noop task		Suspended	✅ 100.0%		

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Execution Column

- Merges together
  - Execution
  - Executing at,
  - Scheduled to start again
- Contains information about task execution health
  - Execution status, workers

Suspended ⚠ Policy violation, rule: 4 seconds policy

Closed at 2/27/25, 10:03:16 AM

Suspended

Running on 0 nodes ⚠ Zero tasks running.

Closed at 3/26/25, 1:48:55 PM

Suspended ⚠ Policy violation, rule: 3 seconds policy

Closed at 3/8/25, 9:58:48 PM

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Status Column

- Status related to items being processed, progress

- Three main parts
  - Status
  - Progress
  - Count of items with error during processing

Task Policies

- Similar to existing focus policy rules
  - Task != Focus
- Policy defined per task activity
- Policy constraints
  - Execution time: below, exceeds (duration)
- Actions
  - Notification, Suspend task

```xml
<activity>
    <work>
        <reconciliation>
            <resourceObjects>
                <resourceRef oid= CSV: "c92beb62-41b1-4190-bd22-9b45c1a
                             type="c:ResourceType"/>
                <kind>account</kind>
                <intent>default</intent>
                <objectclass>ri:AccountObjectClass</objectclass>
            </resourceObjects>
        </reconciliation>
    </work>
    <policies>
        <policy>
            <name>4 seconds notification and suspend</name>
            <policyConstraints>
                <executionTime>
                    <name>4 seconds</name>
                    <exceeds>PT4S</exceeds>
                </executionTime>
            </policyConstraints>
            <policyActions>
                <notification/>
                <suspendTask/>
            </policyActions>
        </policy>
    </policies>
</activity>
```

Task Policies Limitations

- Evaluated only for iterative activities

  - Not for non-iterative
  - Role analysis, role repartition
  - Cleanup
  - Composite

- Evaluated before each item and after activity is completed

- Documentation
  https://docs.evolveum.com/midpoint/reference/master/tasks/activity-thresholds/

Demo

Questions

- Tasks UI
  - Any comments or ideas?
- Policies
  - Any examples use cases/scenarios?
  - Any obvious policy constraints or actions missing?
  - Constraint trigger counters?
  - Any other feature missing?

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Thank you for your attention

Feel free to ask your questions now!

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