Software- und Organisations-Service

JOC Cockpit Overview

JobScheduler Operations Center: JOC Cockpit

Overview

Information for Interested Parties

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  - Completely new User Experience
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- JOC Cockpit Visualization Features
- JOC Cockpit Interaction Features

Motivation: Pain Points with the classic JOC and JID

Motivation for the JOC Cockpit

1. Architecture
   - JOC ships on top of a Master and is restricted to control that Master
   - Separate components JOC and JID have to be used
   - Information is scattered across different components without interaction
2. Security
   - Limited capabilities for authentication
   - Missing authorization, missing roles
3. Navigation
   - Navigation issue: users are forced to switch tabs
   - Usability issue: no consistent information available
4. Visualization
   - Presentation issue: textual representation, no graphical representation
   - Consistency issue: no system status overview available
   - Design issue: no modern design of graphical controls and use of color
5. Interaction
   - Missing responsiveness, no mobile devices, page refresh required
   - Options deeply buried in context menus

Motivation: Competely new User Experience

Motivation for the JOC Cockpit

1. Architecture
   - Platform agnostic component to control a number of Master instances
   - Introduction of a RESTful Web Service for access to JobScheduler
2. Security
   - Role based authentication and authorization including LDAP support
3. Navigation
   - Modern design for better user interaction
   - Clear context menus when performing actions
4. Visualization
   - Textual and graphical representation (Flow Charts, Gantt Charts)
   - Dashboard available for system status overview
5. Interaction
   - Near real-time information about jobs, job chains and orders is automatically displayed and refreshed
   - Support for desktops, notebooks and mobile devices
   - Bulk operations such as stopping all job chains, skipping all nodes or removing all orders associated to a job chain

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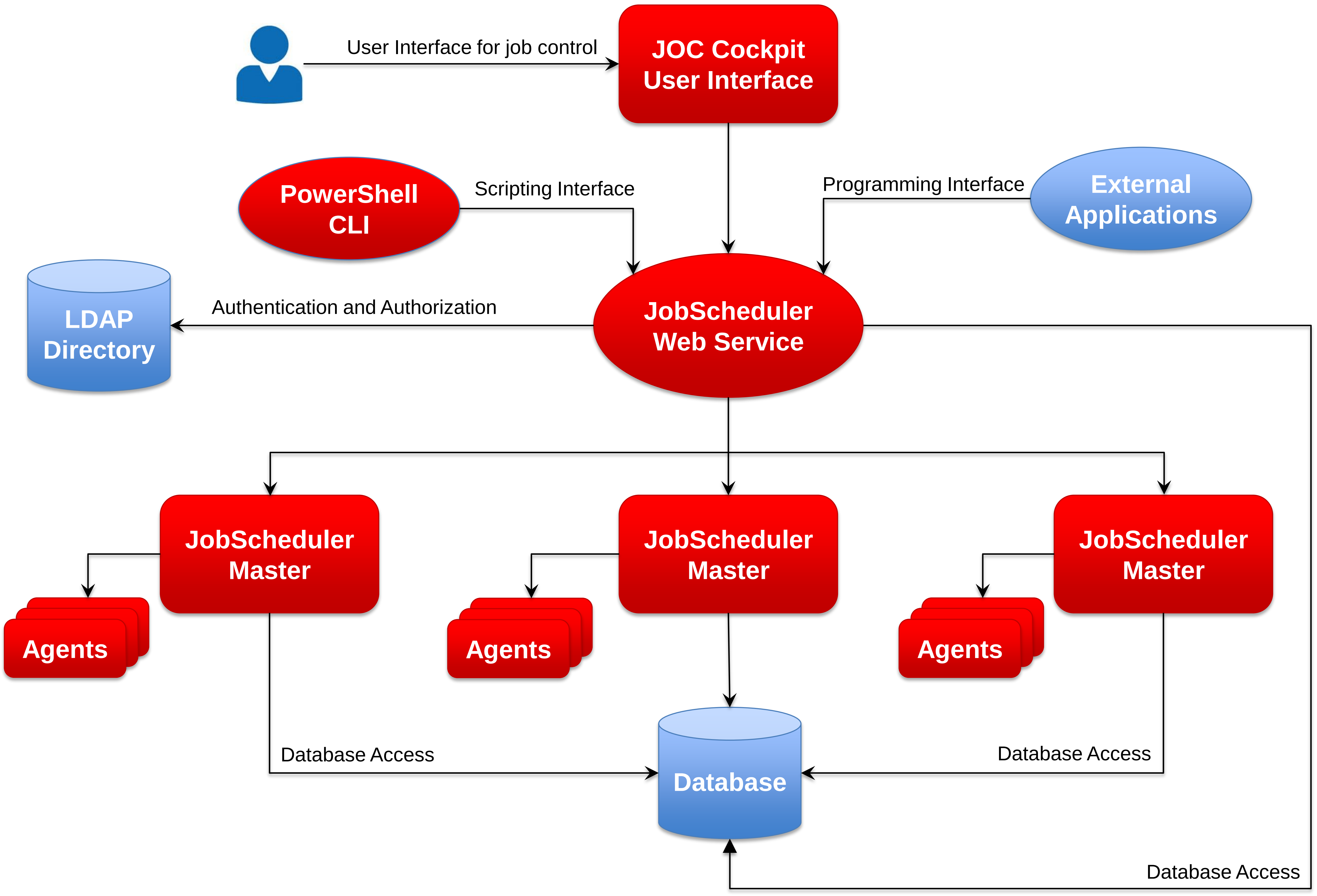
Component Architecture

JOC Cockpit Architecture

Component Architecture

- The JOC Cockpit is a user interface for job control with browsers
- JobScheduler Web Service implements a RESTful interface for use by the JOC Cockpit, PowerShell CLI and by external applications
- Users access the Master using the Web Service that performs authentication and authorization – optionally against an LDAP directory
- Users call up information and manage JobScheduler activities, e.g. current executions, planned executions, history etc.
- With the JOC Cockpit it is possible to operate several Master Instances and any number of JobScheduler Agents that execute jobs and tasks for the Masters

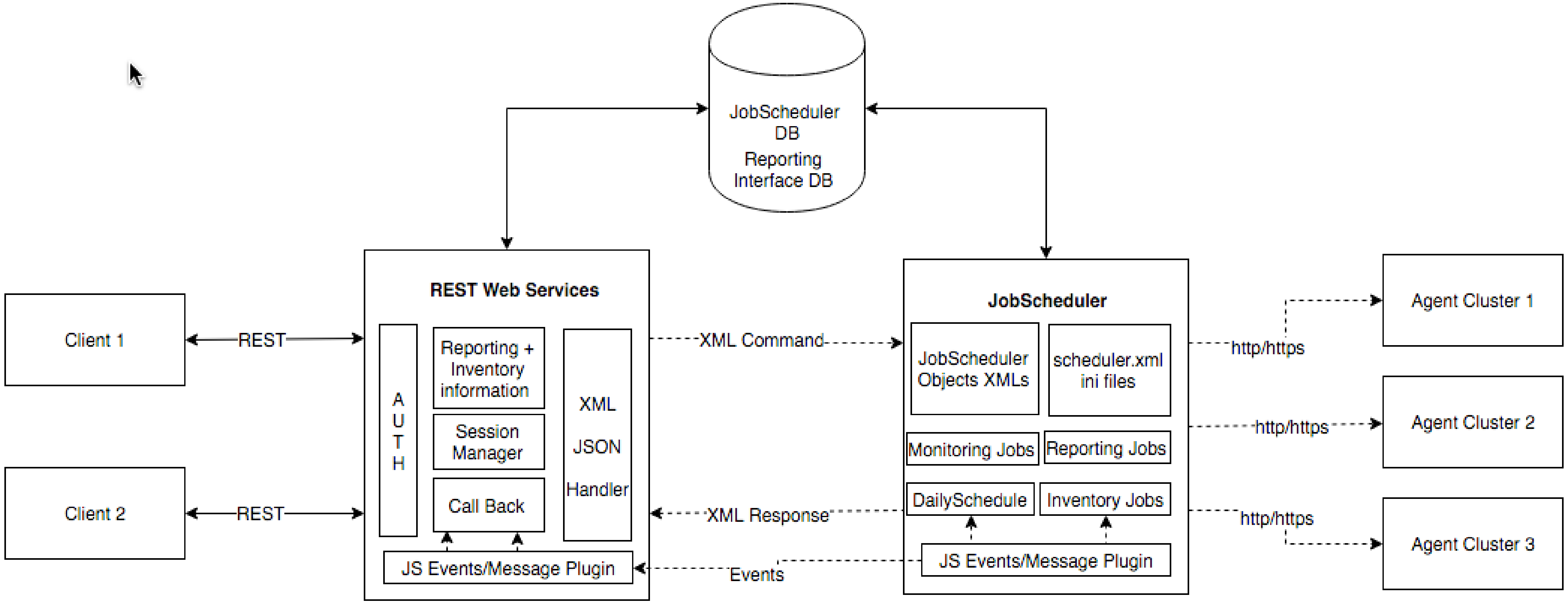


Technical Architecture

JOC Cockpit Architecture

Technical Architecture

- HTTP/HTTPS is used for communication between the RESTful Web Services and the JOC Cockpit - or other applications
- The Web Service uses JSON and XML based commands to communicate with the Masters
- Events about object status changes are communicated between the Masters and the Web Service
- Authentication and authorization is carried out by an Apache Shiro framework integrated into the Web Service



REST Web Services JobScheduler Interaction

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  - Single Sign-On
- JOC Cockpit Visualization Features
- JOC Cockpit Interaction Features

Role based Authentication and Authorization

JOC Cockpit Security Features

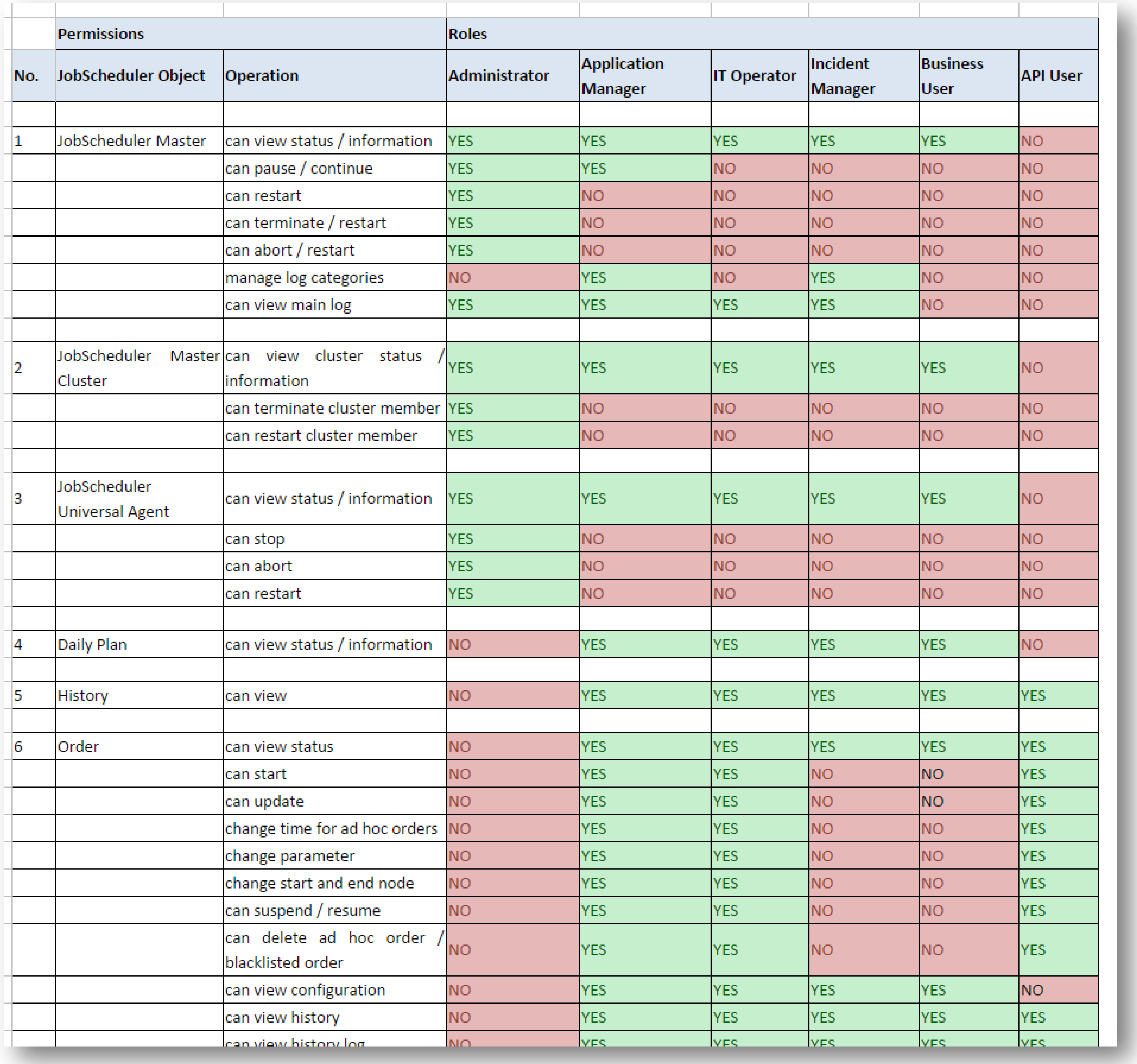
- What is predefined:
  - Number and type of JobScheduler operations and object permissions
  - Operations include to view jobs, start and stop jobs etc.
- What is configurable:
  - Number and type of roles
  - Permission values (yes/no) are configured for each operation and role
  - Users can be assigned to any of the roles offered
- Identity Provider
  - LDAP for e.g. Microsoft Active Directory, Open LDAP etc.
  - Local shiro.ini file containing user name and passwords
- Mapping of Permissions to Roles
  - The mapping can be configured with a local shiro.ini file
  - The mapping can be configured with an LDAP directory service that identifies group membership of users with specific user groups that are mapped to JOC Cockpit roles

Default Roles

- Administrator
  - Technical role without any responsibilities in the IT process
- Application Manager
  - Engineering role with in-depth knowledge of jobs and job chains, however, not necessarily involved in daily operations
- IT Operator
  - Role for daily operations of jobs and job chains
- Incident Manager
  - Role for the IT Service Desk, e.g. 1st and/or 2nd level support, for interventions and Incident Management
- Business User
  - Role for backoffice users not responsible for IT (probably for Business Processes)
- API User
  - Role is intended for applications that access JobScheduler via its API

Default Matrix of Roles and Permissions

JOC Cockpit Security Features



	Permissions		Roles					
No.	JobScheduler Object	Operation	Administrator	Application Manager	IT Operator	Incident Manager	Business User	API User
1	JobScheduler Master	can view status / information	YES	YES	YES	YES	YES	NO
		can pause / continue	YES	YES	NO	NO	NO	NO
		can restart	YES	NO	NO	NO	NO	NO
		can terminate / restart	YES	NO	NO	NO	NO	NO
		can abort / restart	YES	NO	NO	NO	NO	NO
		manage log categories	NO	YES	NO	YES	NO	NO
		can view main log	YES	YES	YES	YES	NO	NO
2	JobScheduler Master Cluster	can view cluster status / information	YES	YES	YES	YES	YES	NO
		can terminate cluster member	YES	NO	NO	NO	NO	NO
		can restart cluster member	YES	NO	NO	NO	NO	NO
3	JobScheduler Universal Agent	can view status / information	YES	YES	YES	YES	YES	NO
		can stop	YES	NO	NO	NO	NO	NO
		can abort	YES	NO	NO	NO	NO	NO
		can restart	YES	NO	NO	NO	NO	NO
4	Daily Plan	can view status / information	NO	YES	YES	YES	YES	NO
5	History	can view	NO	YES	YES	YES	YES	YES
6	Order	can view status	NO	YES	YES	YES	YES	YES
		can start	NO	YES	YES	NO	NO	YES
		can update	NO	YES	YES	NO	NO	YES
		change time for ad hoc orders	NO	YES	YES	NO	NO	YES
		change parameter	NO	YES	YES	NO	NO	YES
		change start and end node	NO	YES	YES	NO	NO	YES
		can suspend / resume	NO	YES	YES	NO	NO	YES
		can delete ad hoc order / blacklisted order	NO	YES	YES	NO	NO	YES
		can view configuration	NO	YES	YES	YES	YES	NO
		can view history	NO	YES	YES	YES	YES	YES
		can view history log	NO	YES	YES	YES	YES	YES

Single Sign-On

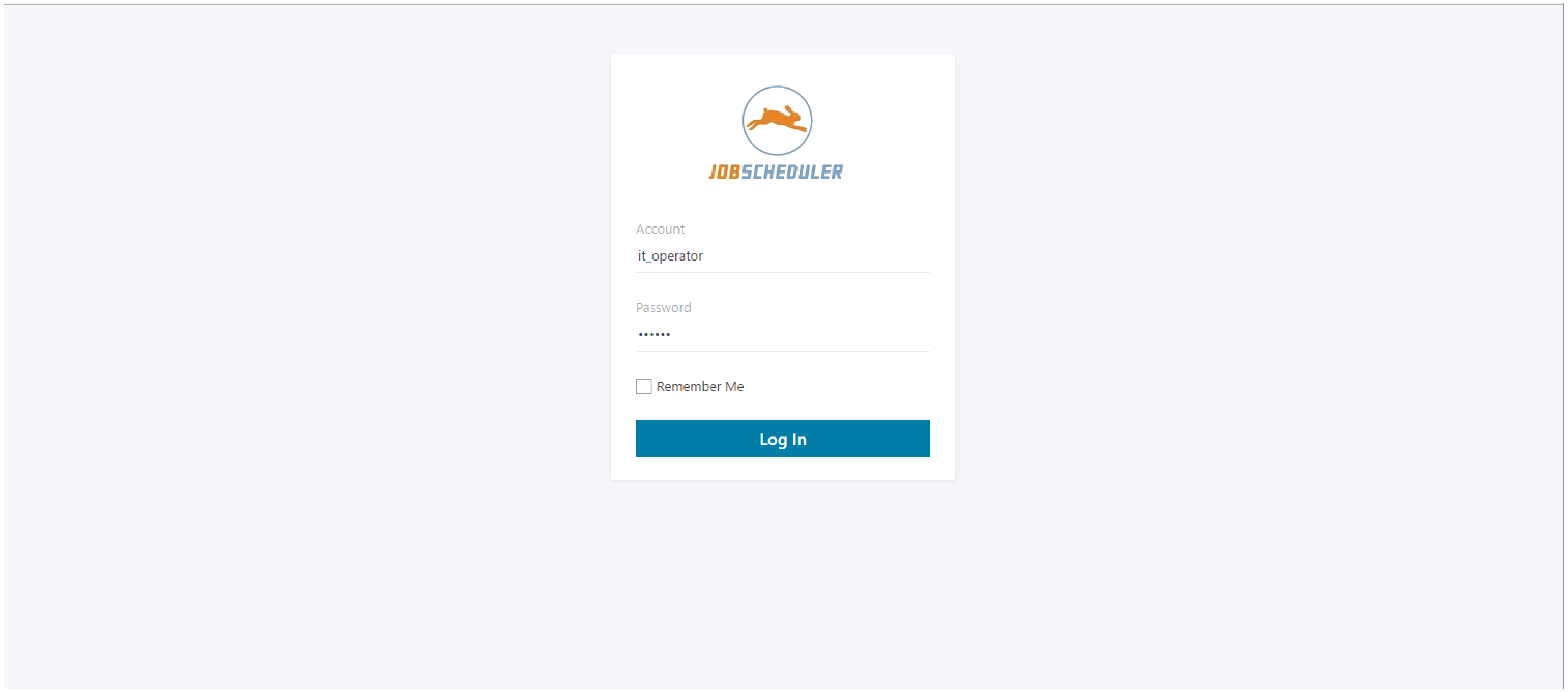
JOC Security Features

Authentication

- Direct authentication via LDAP is provided
- Alternatively use of a local `shiro.ini` file for authentication

Authorization

- Roles and Operations are predefined
- Permissions are configured for the roles in the local `shiro.ini` file
- Roles can be managed with the LDAP directory service by group membership of users
- Alternatively roles can be managed in the local `shiro.ini` file



Account
it_operator

Password
••••••

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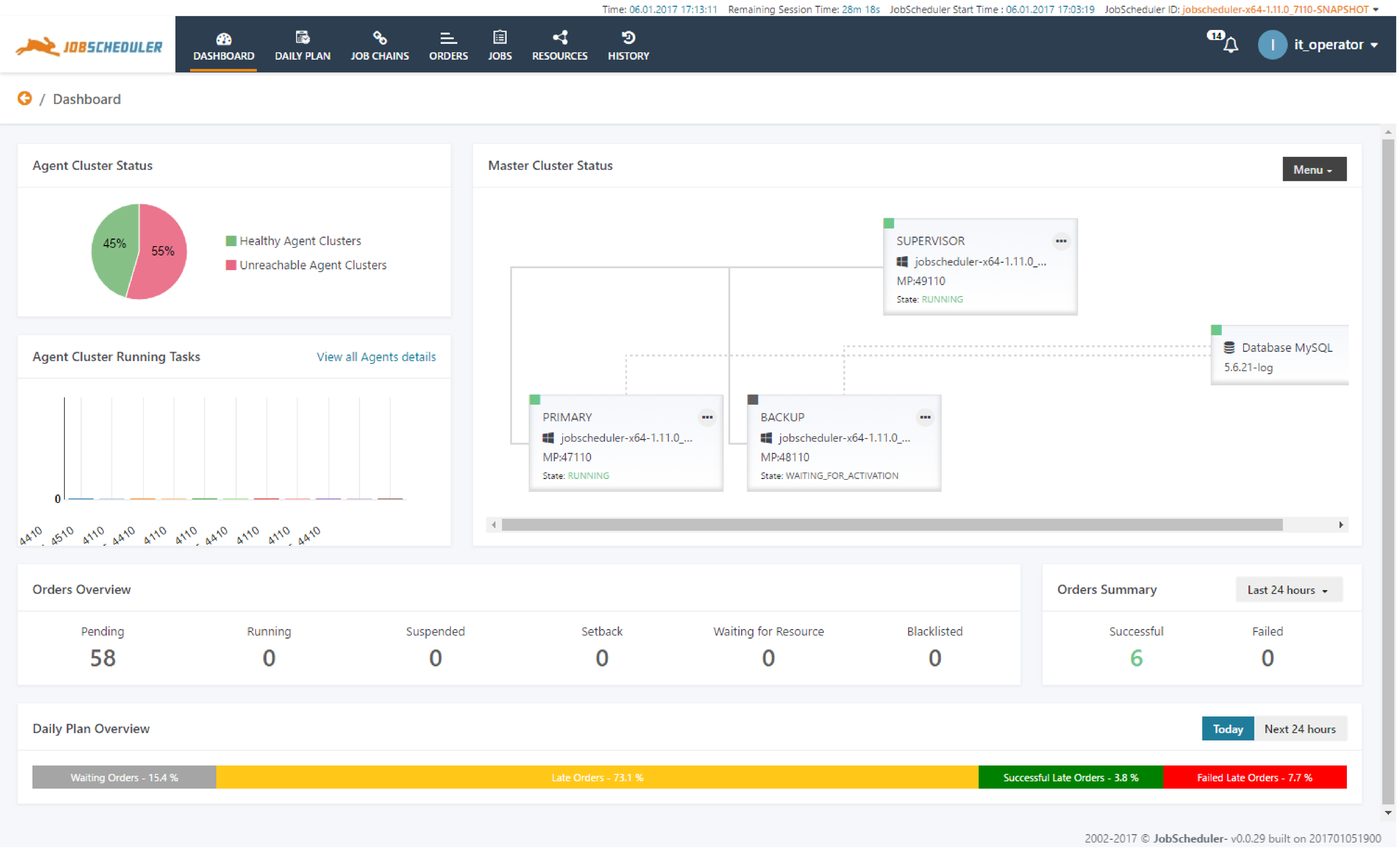
Dashboard

JOC Cockpit Visualization Features

Dashboard

- The Dashboard offers a comprehensive overview of most relevent information in the form of widgets
- Information in the Dashboard is updated automatically in near real-time
- The Dashboard shows the JobScheduler Master status including cluster information
- The Agent overview shows healthy and unhealthy Agent Clusters
- The Dashboard is a starting point to navigate to objects of interest, e.g. failed orders, suspended orders, late orders etc.



Time: 06.01.2017 17:13:11 Remaining Session Time: 28m 18s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

SUPERVISOR
jobscheduler-x64-1.11.0_...
MP:49110
State: RUNNING

Database MySQL
5.6.21-log

PRIMARY
jobscheduler-x64-1.11.0_...
MP:47110
State: RUNNING

BACKUP
jobscheduler-x64-1.11.0_...
MP:48110
State: WAITING_FOR_ACTIVATION

Orders Overview

Pending	Running	Suspended	Setback	Waiting for Resource	Blacklisted
58	0	0	0	0	0

Orders Summary

Successful	Failed
6	0

Waiting Orders - 15.4 % Late Orders - 73.1 % Successful Late Orders - 3.8 % Failed Late Orders - 7.7 %

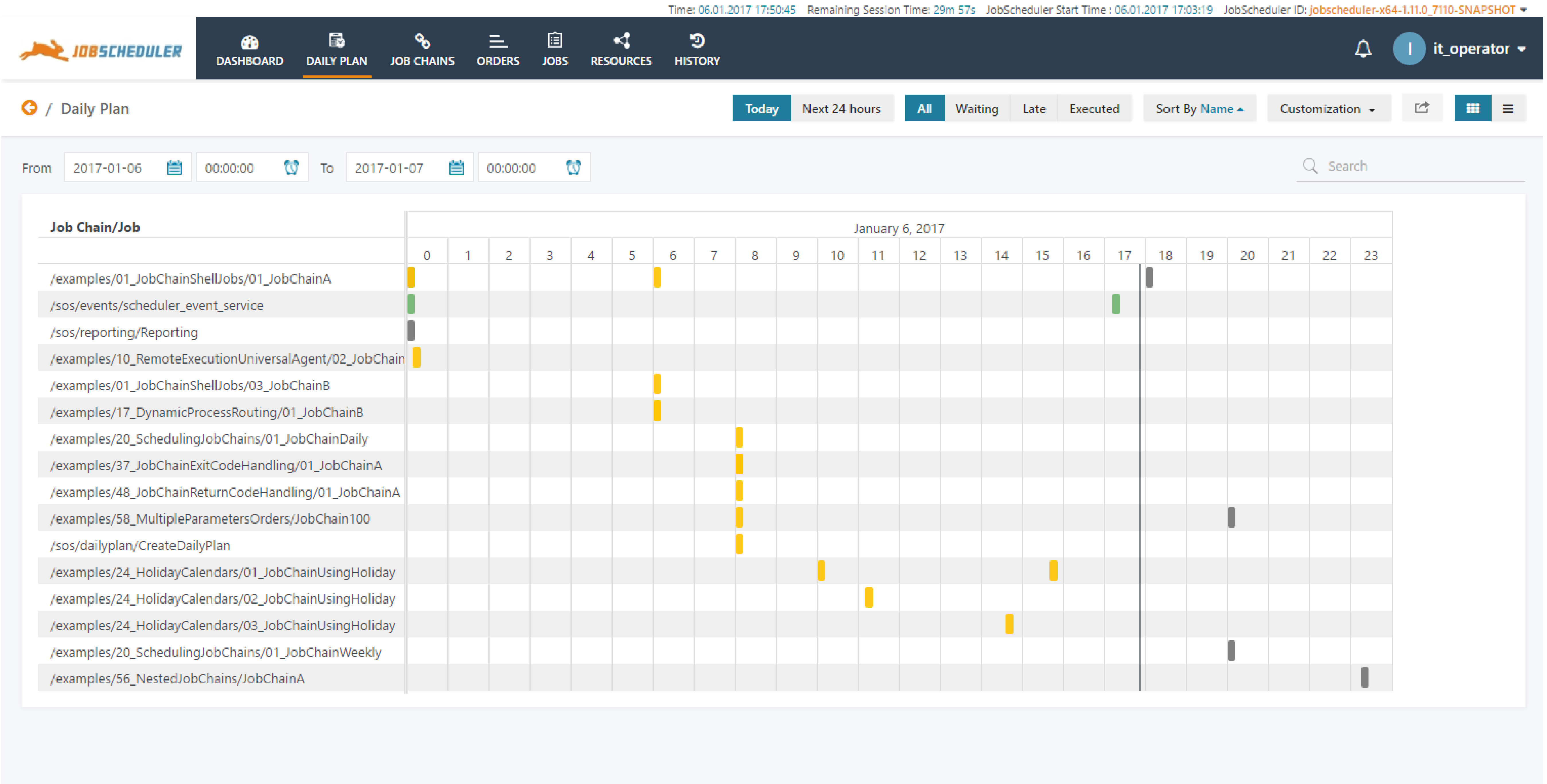
2002-2017 © JobScheduler- v0.0.29 built on 201701051900

Daily Plan: Graphical Overview (Gantt Chart)

JOC Cockpit Visualization Features

Graphical Daily Plan

- The Daily Plan graphical overview is represented in a Gantt diagram
- See at a glance what is running, what is queued, what was suspended
- Color coded information for recognition rather than recall


Time: 06.01.2017 17:50:45 Remaining Session Time: 29m 57s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

From 2017-01-06 00:00:00 To 2017-01-07 00:00:00

Job Chain/Job — January 6, 2017

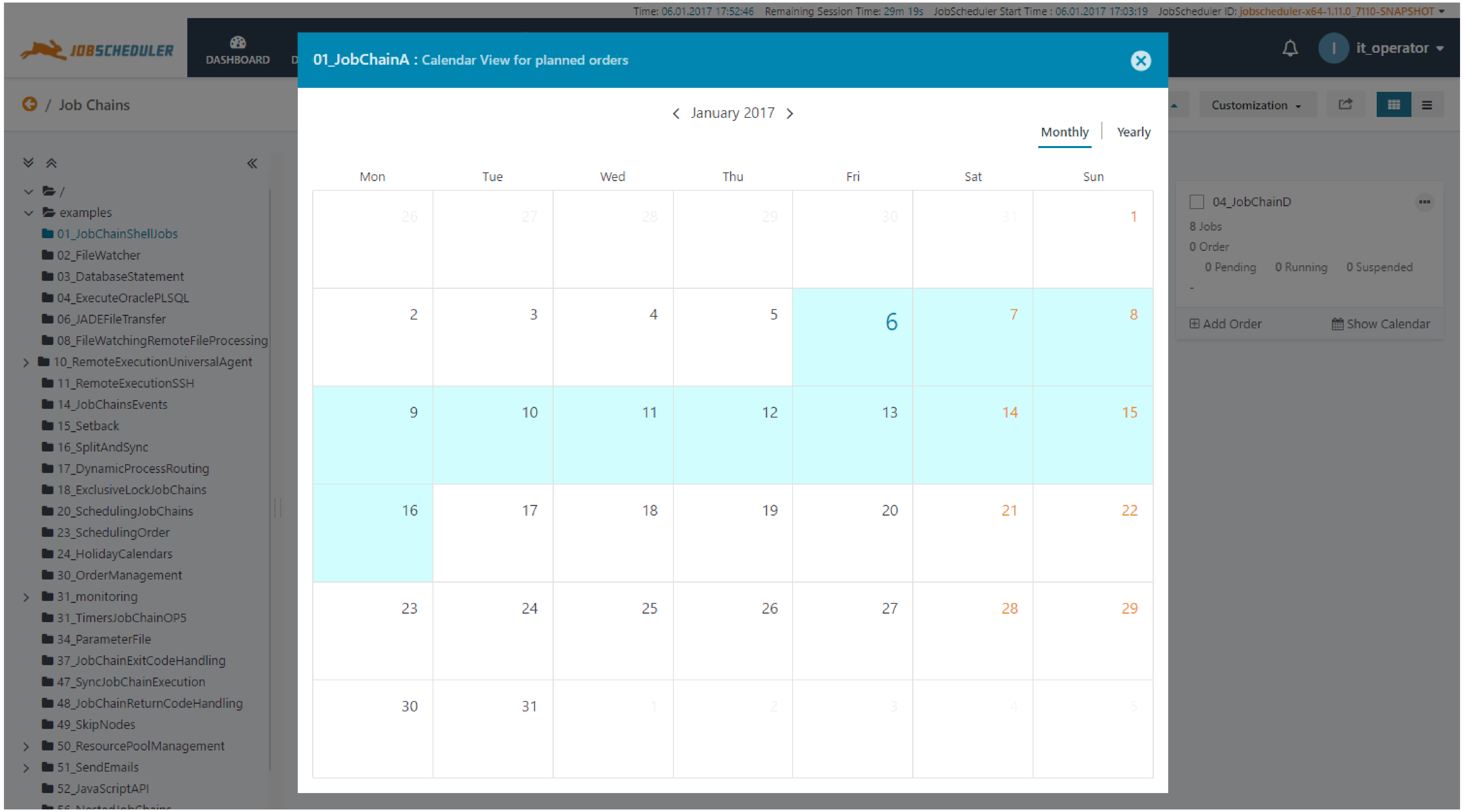
/examples/01_JobChainShellJobs/01_JobChainA
/sos/events/scheduler_event_service
/sos/reporting/Reporting
/examples/10_RemoteExecutionUniversalAgent/02_JobChain
/examples/01_JobChainShellJobs/03_JobChainB
/examples/17_DynamicProcessRouting/01_JobChainB
/examples/20_SchedulingJobChains/01_JobChainDaily
/examples/37_JobChainExitCodeHandling/01_JobChainA
/examples/48_JobChainReturnCodeHandling/01_JobChainA
/examples/58_MultipleParametersOrders/JobChain100
/sos/dailyplan/CreateDailyPlan
/examples/24_HolidayCalendars/01_JobChainUsingHoliday
/examples/24_HolidayCalendars/02_JobChainUsingHoliday
/examples/24_HolidayCalendars/03_JobChainUsingHoliday
/examples/20_SchedulingJobChains/01_JobChainWeekly
/examples/56_NestedJobChains/JobChainA

Daily Plan: Calendar View

JOC Cockpit Visualization Features

Graphical Calendar View

- The calendar view allows to check future start dates of job chains
- The daily plan is updated automatically to reflect changes in order start times
- The calendar view allows a preview for the forthcoming days and months



Time: 06.01.2017 17:52:46 Remaining Session Time: 29m 19s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

/
- examples
  - 01_JobChainShellJobs
  - 02_FileWatcher
  - 03_DatabaseStatement
  - 04_ExecuteOraclePLSQL
  - 06_JADEFileTransfer
  - 08_FileWatchingRemoteFileProcessing
  - 10_RemoteExecutionUniversalAgent
  - 11_RemoteExecutionSSH
  - 14_JobChainsEvents
  - 15_Setback
  - 16_SplitAndSync
  - 17_DynamicProcessRouting
  - 18_ExclusiveLockJobChains
  - 20_SchedulingJobChains
  - 23_SchedulingOrder
  - 24_HolidayCalendars
  - 30_OrderManagement
  - 31_monitoring
  - 31_TimersJobChainOP5
  - 34_ParameterFile
  - 37_JobChainExitCodeHandling
  - 47_SyncJobChainExecution
  - 48_JobChainReturnCodeHandling
  - 49_SkipNodes
  - 50_ResourcePoolManagement
  - 51_SendEmails
  - 52_JavaScriptAPI
  - 56_NestedJobChains

01_JobChainA : Calendar View for planned orders

January 2017

Mon	Tue	Wed	Thu	Fri	Sat	Sun
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

□ 04_JobChainD

8 Jobs

0 Order

0 Pending 0 Running 0 Suspended

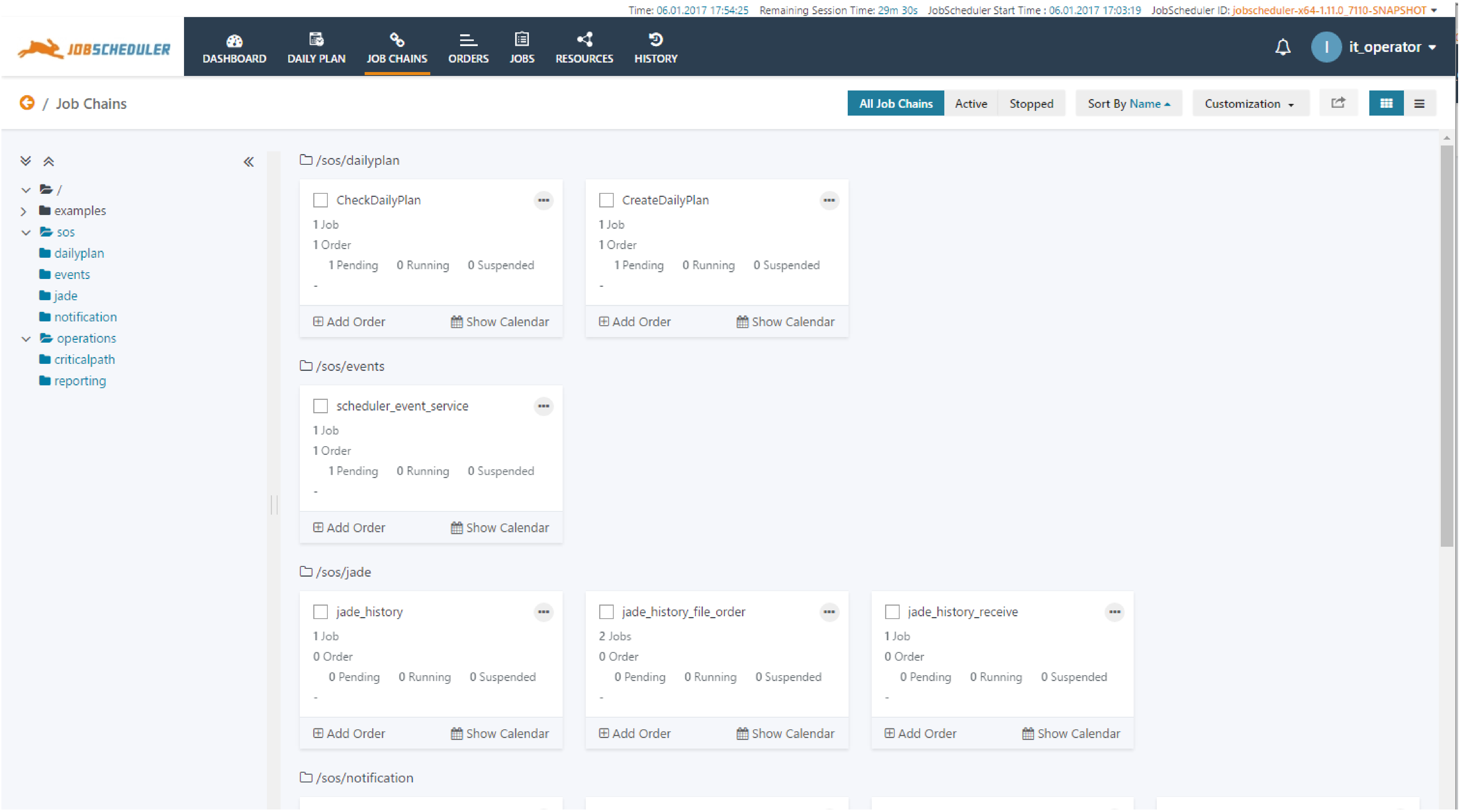
-

Card View: Quick Overview of Objects

JOC Cockpit Visualization Features

Card View

- The graphical card view shows a comprehensive list of objects and the most frequently used information
- Cards include the most frequently offered operations on objects for a single click
- Additional operations are available from context menues



Time: 06.01.2017 17:54:25 Remaining Session Time: 29m 30s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

/sos/dailyplan

CheckDailyPlan
1 Job
1 Order
1 Pending 0 Running 0 Suspended
-
Add Order Show Calendar

CreateDailyPlan
1 Job
1 Order
1 Pending 0 Running 0 Suspended
-
Add Order Show Calendar

/sos/events

scheduler_event_service
1 Job
1 Order
1 Pending 0 Running 0 Suspended
-
Add Order Show Calendar

/sos/jade

jade_history
1 Job
0 Order
0 Pending 0 Running 0 Suspended
-
Add Order Show Calendar

jade_history_file_order
2 Jobs
0 Order
0 Pending 0 Running 0 Suspended
-
Add Order Show Calendar

jade_history_receive
1 Job
0 Order
0 Pending 0 Running 0 Suspended
-
Add Order Show Calendar

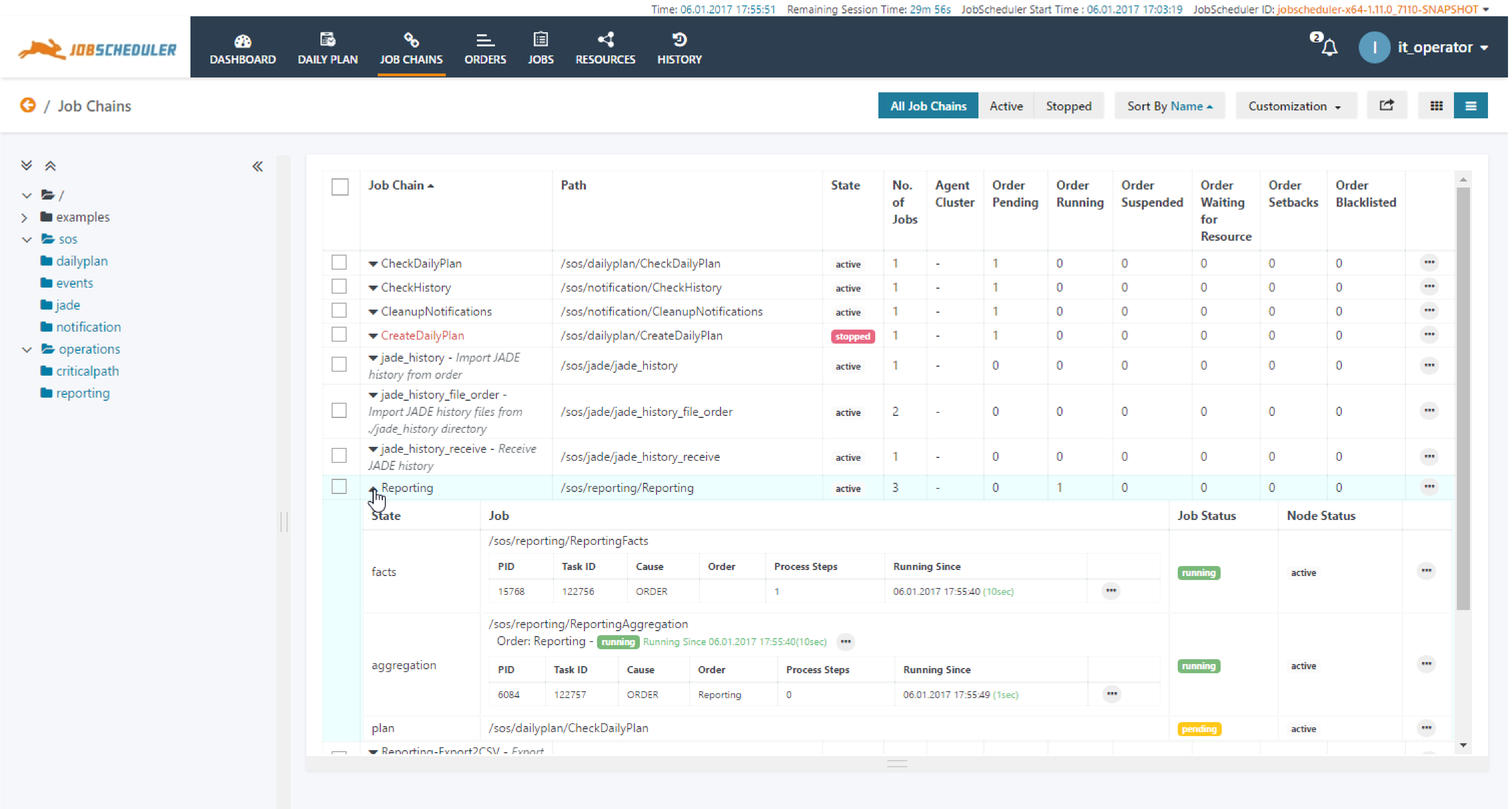
/sos/notification

Table View: Job Chains

JOC Cockpit Visualization Features

Table View

- The table view shows a concise list of objects and important information
- The status of each object is visible including job chains, jobs, orders, tasks
- Operations are available by context menues for all visible objects
- The table view can be used for monitoring purposes as the view is updated automatically for tasks started and completed



□	Job Chain	Path	State	No. of Jobs	Agent Cluster	Order Pending	Order Running	Order Suspended	Order Waiting for Resource	Order Setbacks	Order Blacklisted	
□	CheckDailyPlan	/sos/dailyplan/CheckDailyPlan	active	1	-	1	0	0	0	0	0	•••
□	CheckHistory	/sos/notification/CheckHistory	active	1	-	1	0	0	0	0	0	•••
□	CleanupNotifications	/sos/notification/CleanupNotifications	active	1	-	1	0	0	0	0	0	•••
□	CreateDailyPlan	/sos/dailyplan/CreateDailyPlan	stopped	1	-	1	0	0	0	0	0	•••
□	jade_history - *Import JADE history from order*	/sos/jade/jade_history	active	1	-	0	0	0	0	0	0	•••
□	jade_history_file_order - *Import JADE history files from ./jade_history directory*	/sos/jade/jade_history_file_order	active	2	-	0	0	0	0	0	0	•••
□	jade_history_receive - *Receive JADE history*	/sos/jade/jade_history_receive	active	1	-	0	0	0	0	0	0	•••
□	Reporting	/sos/reporting/Reporting	active	3	-	0	1	0	0	0	0	•••

State	Job	Job Status	Node Status	
facts	/sos/reporting/ReportingFacts	running	active	•••
aggregation	/sos/reporting/ReportingAggregation Order: Reporting - running Running Since 06.01.2017 17:55:40(10sec)	running	active	•••
plan	/sos/dailyplan/CheckDailyPlan	pending	active	•••

/sos/reporting/ReportingFacts

PID	Task ID	Cause	Order	Process Steps	Running Since	
15768	122756	ORDER		1	06.01.2017 17:55:40 (10sec)	•••

/sos/reporting/ReportingAggregation

PID	Task ID	Cause	Order	Process Steps	Running Since	
6084	122757	ORDER	Reporting	0	06.01.2017 17:55:49 (1sec)	•••

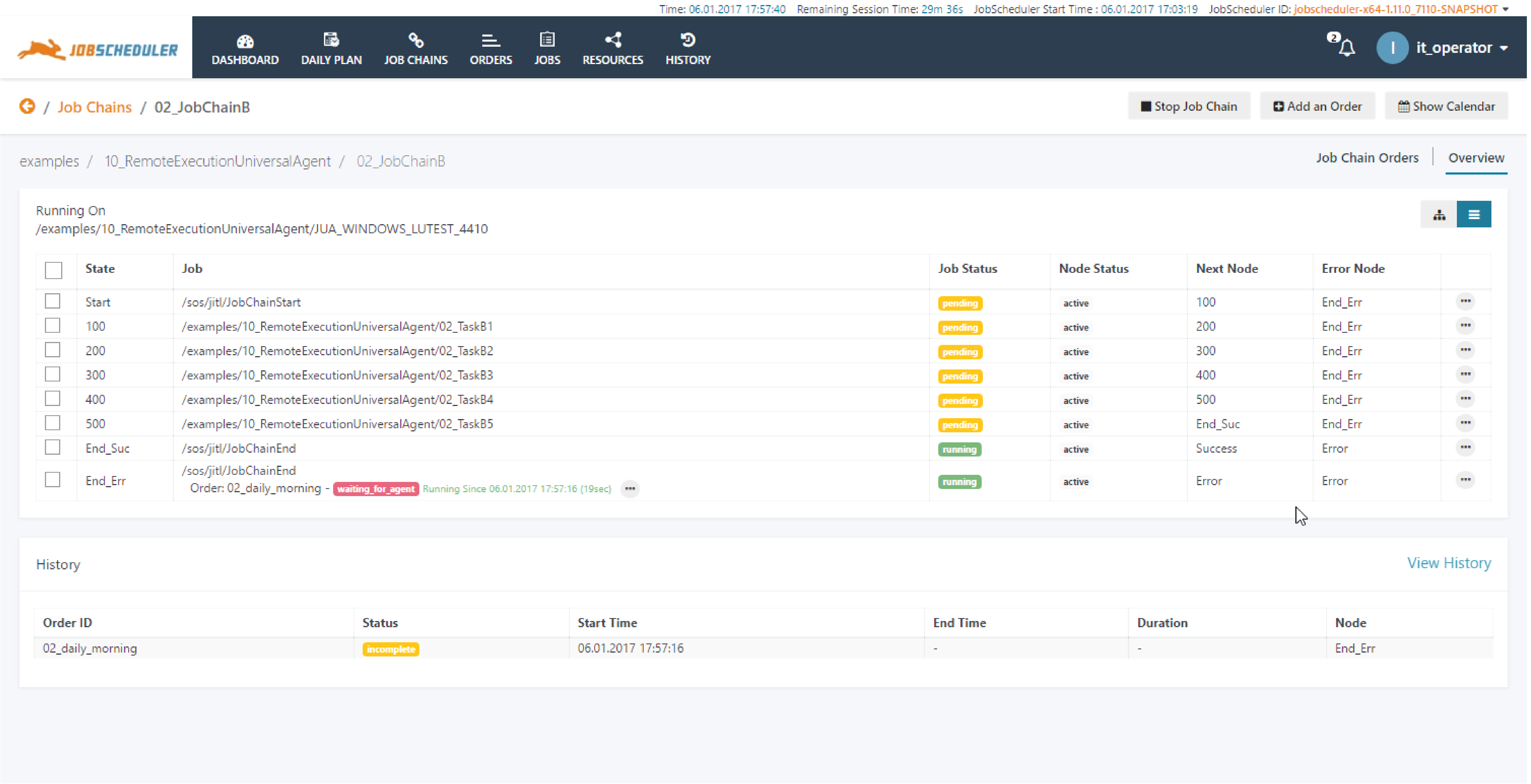
□ Reporting-Export2CSV - *Export*

Table View: Job Chain Details

JOC Cockpit Visualization Features

Table View for Details

- The table view shows the detailed list of objects that are available for a single job chain
- This view can be used for monitoring purposes as the view is updated automatically for tasks started and completed



Time: 06.01.2017 17:57:40 Remaining Session Time: 29m 36s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

Running On
/examples/10_RemoteExecutionUniversalAgent/JUA_WINDOWS_LUTEST_4410

□	State	Job	Job Status	Node Status	Next Node	Error Node	
□	Start	/sos/jitl/JobChainStart	pending	active	100	End_Err	•••
□	100	/examples/10_RemoteExecutionUniversalAgent/02_TaskB1	pending	active	200	End_Err	•••
□	200	/examples/10_RemoteExecutionUniversalAgent/02_TaskB2	pending	active	300	End_Err	•••
□	300	/examples/10_RemoteExecutionUniversalAgent/02_TaskB3	pending	active	400	End_Err	•••
□	400	/examples/10_RemoteExecutionUniversalAgent/02_TaskB4	pending	active	500	End_Err	•••
□	500	/examples/10_RemoteExecutionUniversalAgent/02_TaskB5	pending	active	End_Suc	End_Err	•••
□	End_Suc	/sos/jitl/JobChainEnd	running	active	Success	Error	•••
□	End_Err	/sos/jitl/JobChainEnd Order: 02_daily_morning - waiting_for_agent Running Since 06.01.2017 17:57:16 (19sec) •••	running	active	Error	Error	•••

History

View History

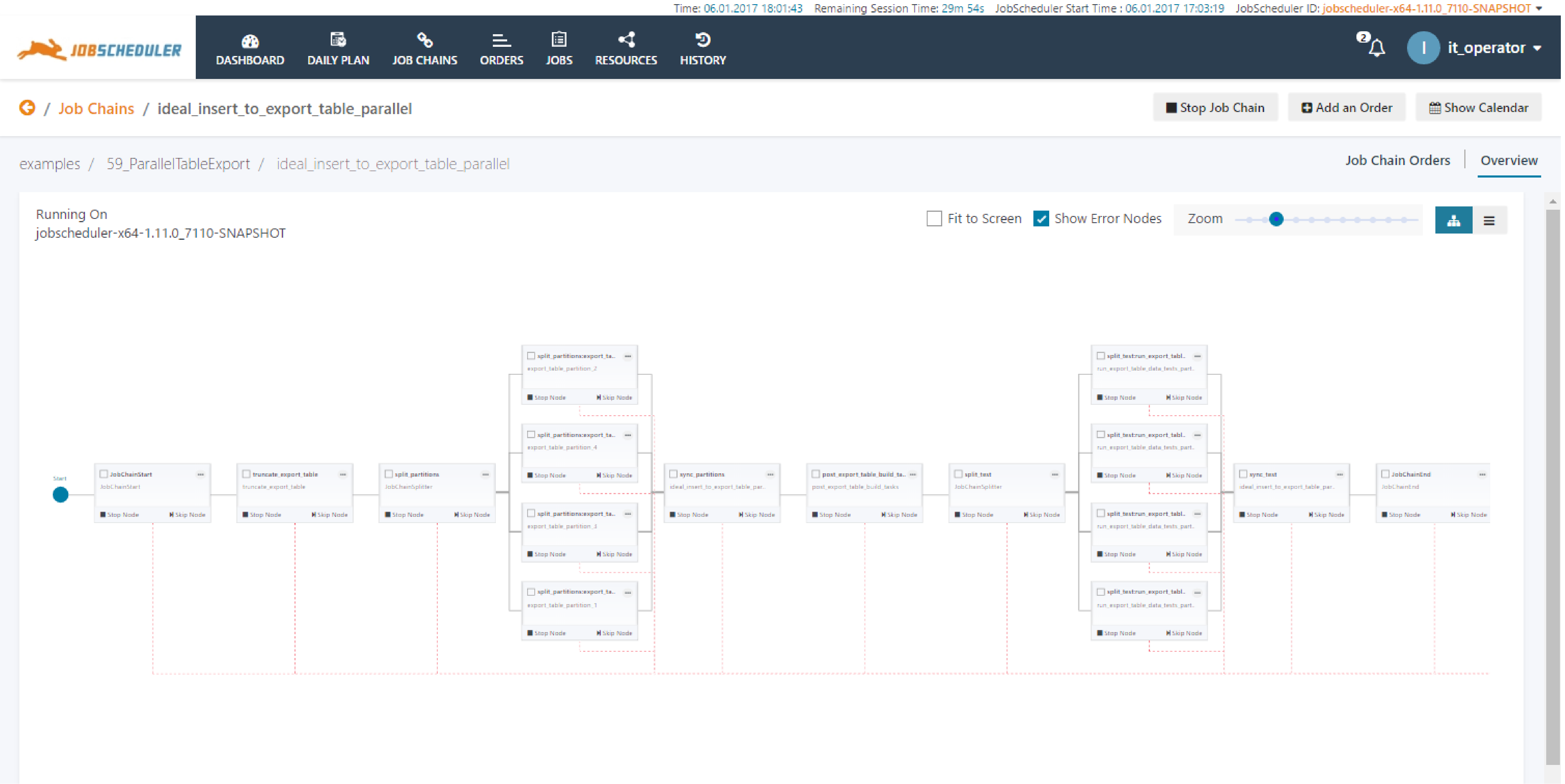
Order ID	Status	Start Time	End Time	Duration	Node
02_daily_morning	incomplete	06.01.2017 17:57:16	-	-	End_Err

Graphical View: Flow Charts

JOC Cockpit Visualization Features

Graphical Flow Chart

- The flow chart view shows a graphical representation of objects in a job chain
- Typical dependency patterns such as split & sync are considered
- The flow chart allows to zoom-in and zoom-out to make details visible
- All applicable operations on objects are available from the flow chart view, e.g. starting orders
- This view can be used for monitoring purposes as the view is updated automatically for tasks started and completed



Time: 06.01.2017 18:01:43 Remaining Session Time: 29m 54s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

Job Chains / ideal_insert_to_export_table_parallel

examples / 59_ParallelTableExport / ideal_insert_to_export_table_parallel

Running On
jobscheduler-x64-1.11.0_7110-SNAPSHOT

□ Fit to Screen ☑ Show Error Nodes Zoom

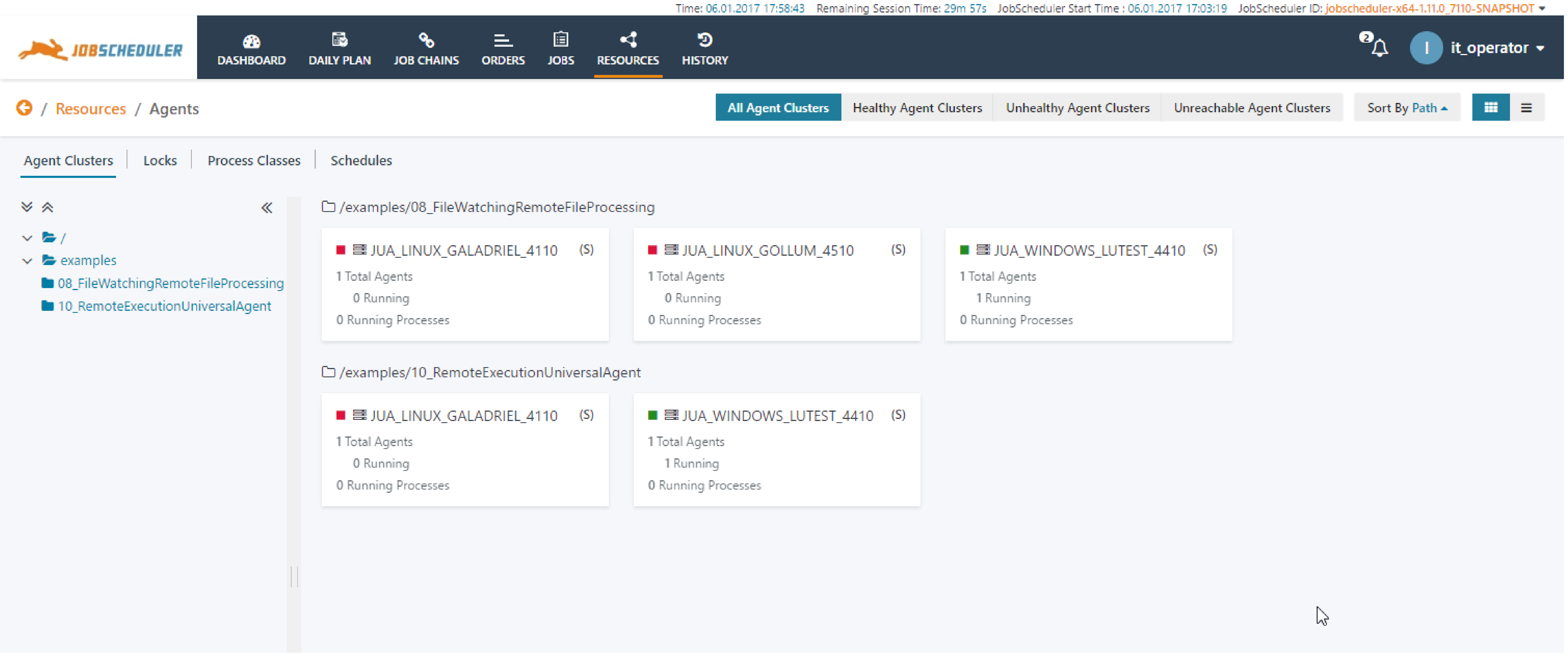
JOBSCHEDULER
DASHBOARD
DAILY PLAN
JOB CHAINS
ORDERS
JOBS
RESOURCES
HISTORY
2
it_operator
Stop Job Chain
Add an Order
Show Calendar
Job Chain Orders
Overview
Start
JobChainStart
JobChainStart
truncate_export_table
truncate_export_table
split_partitions
JobChainSplitter
split_partitions:export_ta...
export_table_partition_2
split_partitions:export_ta...
export_table_partition_4
split_partitions:export_ta...
export_table_partition_3
split_partitions:export_ta...
export_table_partition_1
sync_partitions
ideal_insert_to_export_table_par...
post_export_table_build_ta...
post_export_table_build_tasks
split_test
JobChainSplitter
split_testrun_export_tabl...
run_export_table_data_tests_part...
split_testrun_export_tabl...
run_export_table_data_tests_part...
split_testrun_export_tabl...
run_export_table_data_tests_part...
split_testrun_export_tabl...
run_export_table_data_tests_part...
sync_test
ideal_insert_to_export_table_par...
JobChainEnd
JobChainEnd
Stop Node
Skip Node

Ressources View: Agents, Locks, Schedules

JOC Cockpit Visualization Features

Resources View

- The resources view shows the status and availability of resources that are required to execute jobs
- Resources include Agents that operate on remote hosts, locks that apply mutual exclusion on jobs and schedules that specify common run-times
- The example shows a number of Agent Clusters that are partly available and partly unavailable



Time: 06.01.2017 17:58:43 Remaining Session Time: 29m 57s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

/ Resources / Agents

/
examples
08_FileWatchingRemoteFileProcessing
10_RemoteExecutionUniversalAgent

/examples/08_FileWatchingRemoteFileProcessing

🟥 JUA_LINUX_GALADRIEL_4110 (S)
1 Total Agents
0 Running
0 Running Processes

🟥 JUA_LINUX_GOLLUM_4510 (S)
1 Total Agents
0 Running
0 Running Processes

🟩 JUA_WINDOWS_LUTEST_4410 (S)
1 Total Agents
1 Running
0 Running Processes

/examples/10_RemoteExecutionUniversalAgent

🟥 JUA_LINUX_GALADRIEL_4110 (S)
1 Total Agents
0 Running
0 Running Processes

🟩 JUA_WINDOWS_LUTEST_4410 (S)
1 Total Agents
1 Running
0 Running Processes

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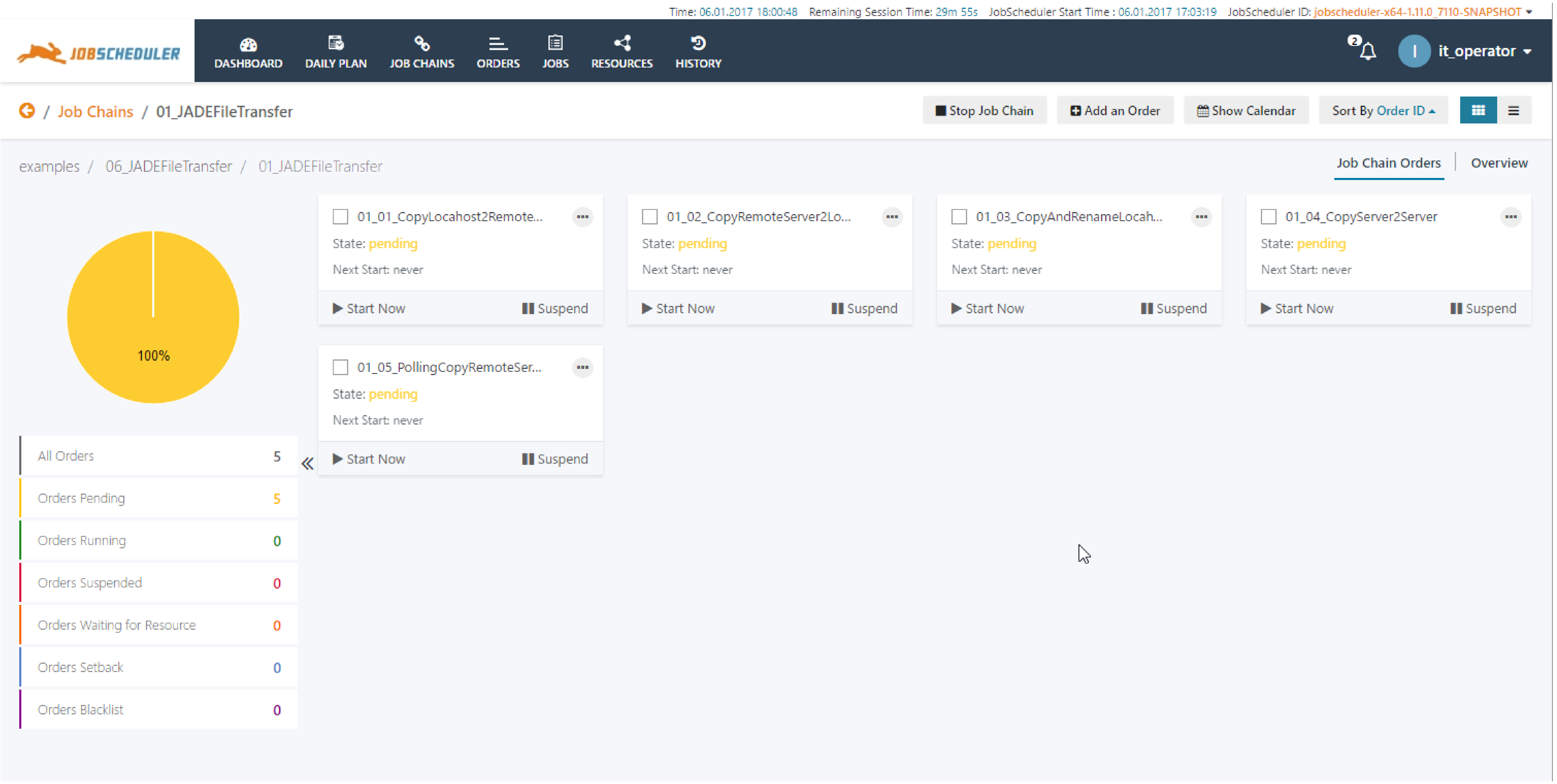
  - Query the Order History
  - Perform Bulk Operations
  - Adding Orders on-the-fly
  - Advanced Filtering and Customizations

Manage related Objects

JOC Cockpit Interaction Features

Interaction Features

- Users can navigate between related JobScheduler objects
- Example 1: From a job chain the user wants to see a specific order which triggers this job chain
- Example 2: A user sees that a job chain has not run successfully and wants to check out whether the specificic JobScheduler Agent is available for which the job chain is scheduled



Time: 06.01.2017 18:00:48 Remaining Session Time: 29m 55s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

/ Job Chains / 01_JADEFileTransfer

examples / 06_JADEFileTransfer / 01_JADEFileTransfer

All Orders	5
Orders Pending	5
Orders Running	0
Orders Suspended	0
Orders Waiting for Resource	0
Orders Setback	0
Orders Blacklist	0

□ 01_01_CopyLocahost2Remote...
State: pending
Next Start: never
▶ Start Now ▮▮ Suspend

□ 01_02_CopyRemoteServer2Lo...
State: pending
Next Start: never
▶ Start Now ▮▮ Suspend

□ 01_03_CopyAndRenameLocah...
State: pending
Next Start: never
▶ Start Now ▮▮ Suspend

□ 01_04_CopyServer2Server
State: pending
Next Start: never
▶ Start Now ▮▮ Suspend

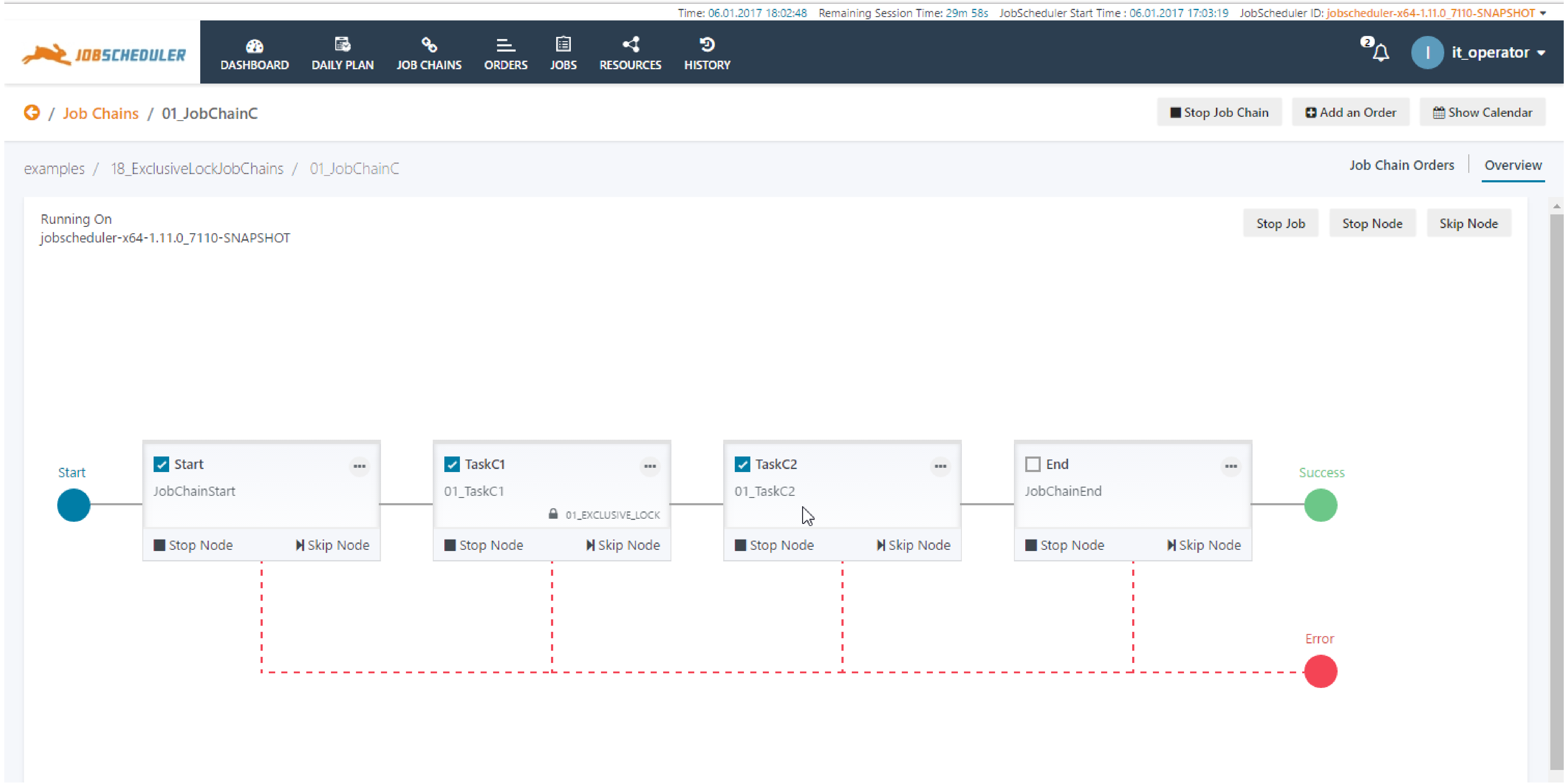
□ 01_05_PollingCopyRemoteSer...
State: pending
Next Start: never
▶ Start Now ▮▮ Suspend

Adding Orders on-the-fly (1/2)

JOC Cockpit Interaction Features

Adding Orders

- This example shows the the graphiacal flow chart view of a job chain
- This view can be used as a starting point to add orders on-the-fly



Time: 06.01.2017 18:02:48 Remaining Session Time: 29m 58s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

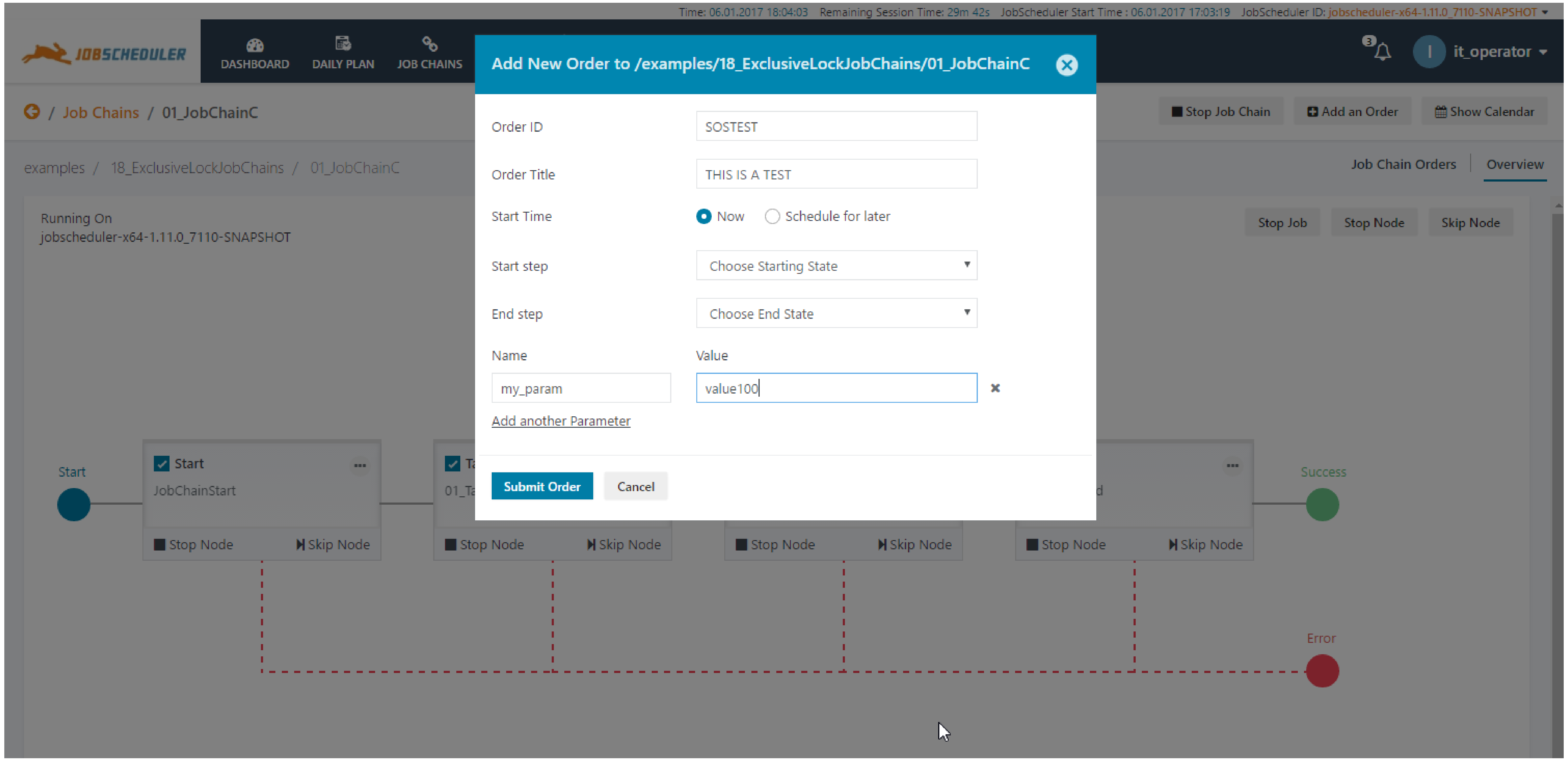
Running On
jobscheduler-x64-1.11.0_7110-SNAPSHOT

Adding Orders on-the-fly (2/2)

JOC Cockpit Interaction Features

Adding Orders

- When adding an order then a pop-up window applears that allows to enter detailed information
- The order entry window is used by all views that allow to add orders on-the-fly



Time: 06.01.2017 18:04:03 Remaining Session Time: 29m 42s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

Add New Order to /examples/18_ExclusiveLockJobChains/01_JobChainC

Order ID	SOSTEST
Order Title	THIS IS A TEST
Start Time	● Now ○ Schedule for later
Start step	Choose Starting State
End step	Choose End State
Name	Value
my_param	value100

Add another Parameter

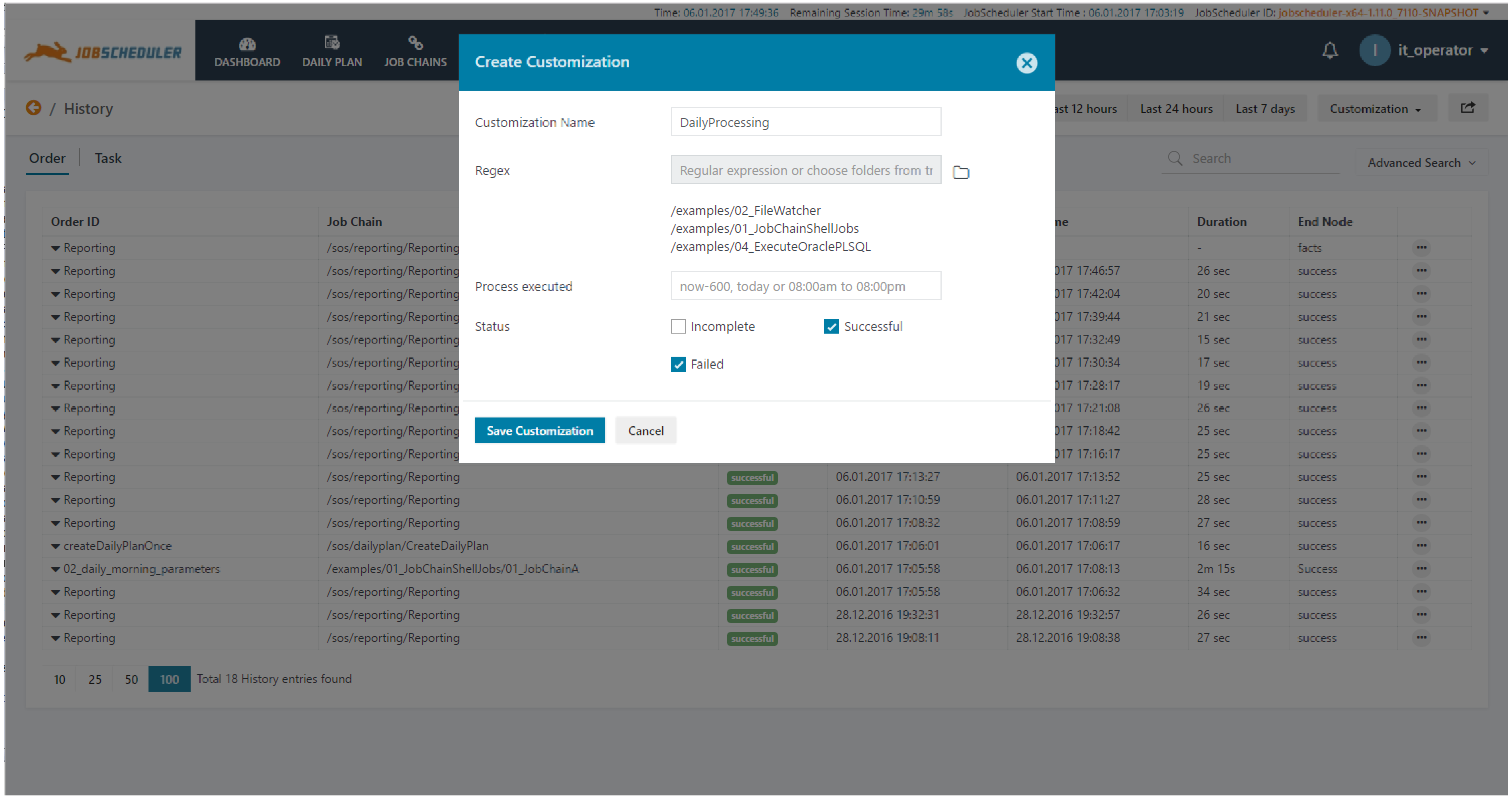
Submit Order Cancel

Advanced Filtering and Customizations

JOC Cockpit Interaction Features

Advanced Filtering and Customizations

- This example shows the filtering for the Order History
- Time ranges can be specified as well as JobScheduler objects being selected for granular filtering
- Filters help to create customized work views for individuals or a team



Time: 06.01.2017 17:49:36 Remaining Session Time: 29m 58s JobScheduler Start Time : 06.01.2017 17:03:19 JobScheduler ID: jobscheduler-x64-1.11.0_7110-SNAPSHOT

Create Customization

Customization Name: DailyProcessing

Regex: Regular expression or choose folders from tr

/examples/02_FileWatcher
/examples/01_JobChainShellJobs
/examples/04_ExecuteOraclePLSQL

Process executed: now-600, today or 08:00am to 08:00pm

Status: □ Incomplete ☑ Successful ☑ Failed

Save Customization | Cancel

Order ID	Job Chain			ne	Duration	End Node
Reporting	/sos/reporting/Reporting				-	facts
Reporting	/sos/reporting/Reporting			017 17:46:57	26 sec	success
Reporting	/sos/reporting/Reporting			017 17:42:04	20 sec	success
Reporting	/sos/reporting/Reporting			017 17:39:44	21 sec	success
Reporting	/sos/reporting/Reporting			017 17:32:49	15 sec	success
Reporting	/sos/reporting/Reporting			017 17:30:34	17 sec	success
Reporting	/sos/reporting/Reporting			017 17:28:17	19 sec	success
Reporting	/sos/reporting/Reporting			017 17:21:08	26 sec	success
Reporting	/sos/reporting/Reporting			017 17:18:42	25 sec	success
Reporting	/sos/reporting/Reporting			017 17:16:17	25 sec	success
Reporting	/sos/reporting/Reporting	successful	06.01.2017 17:13:27	06.01.2017 17:13:52	25 sec	success
Reporting	/sos/reporting/Reporting	successful	06.01.2017 17:10:59	06.01.2017 17:11:27	28 sec	success
Reporting	/sos/reporting/Reporting	successful	06.01.2017 17:08:32	06.01.2017 17:08:59	27 sec	success
createDailyPlanOnce	/sos/dailyplan/CreateDailyPlan	successful	06.01.2017 17:06:01	06.01.2017 17:06:17	16 sec	success
02_daily_morning_parameters	/examples/01_JobChainShellJobs/01_JobChainA	successful	06.01.2017 17:05:58	06.01.2017 17:08:13	2m 15s	Success
Reporting	/sos/reporting/Reporting	successful	06.01.2017 17:05:58	06.01.2017 17:06:32	34 sec	success
Reporting	/sos/reporting/Reporting	successful	28.12.2016 19:32:31	28.12.2016 19:32:57	26 sec	success
Reporting	/sos/reporting/Reporting	successful	28.12.2016 19:08:11	28.12.2016 19:08:38	27 sec	success

10 25 50 100 Total 18 History entries found

Questions?

Comments?

Feedback?

Software- und
Organisations-
Service GmbH

Giesebrechtstr. 15
D-10629 Berlin

info@sos-berlin.com
http://www.sos-berlin.com