IBM Operational Decision Manager

What’s new in ODM 8.10

December 18th, 2020

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ODM 8.10 in a nutshell

IBM Operational Decision Manager

What’s new in ODM 8.10

Enhanced Decision Center productivity and secure deployment on container environments.

Business console

Author and manage decision services in the Business console.

Testing and simulation

Validate decisions and analyze impact.

Container support

Deploy ODM to CNCF-certified Kubernetes environments.

Setup and automation

Configure, upgrade, and automate ODM with REST APIs.

Reporting and diagnostics

Control and report on Decision Center usage, leverage logs and execution diagnostics.

Security and authentication

Manage and monitor security and authentication with OpenID Connect.

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Continuous delivery and support

ODM 8.10.x support lifecycle, with end of fix support dates:

Release	Update Package Type	Release Date (GA)	End of Fix Support
8.10.0	CD	Dec. 7, 2018	June 19, 2019
8.10.1	CD	March 22, 2019	Dec. 12, 2019
8.10.2	LTSR	June 19, 2019	April 30, 2022
8.10.3	CD	Dec. 12, 2019	Dec. 18, 2020
8.10.4	CD	June 19, 2020	*To be announced*
8.10.5	LTSR	Dec. 18, 2020	*To be announced*

IBM ODM V8.10 uses the Continuous Delivery support model and is available for a minimum of three years from the general availability, with a billable 2-year support extension.

New functionality, security updates, and defect fixes will be made available through CD releases. Additional support will be made available, as necessary, through iFixes on only the two most recent CD updates and LTSR. LTSR releases provide product defect fixes and security updates for a minimum period of two years from general availability date.

History details

Area	Feature	8.10.0	8.10.1	8.10.2	8.10.3	8.10.4	8.10.5
Setup and automation	Administer Decision Center from the Business console	X	X	X	X	X	X
Setup and automation	Eclipse 4.7 upgrade	X	X	X	X	X	X
Testing and simulation	Define custom simulation KPIs	X	X	X	X	X	X
Testing and simulation	View how a test scenario was executed	X	X	X	X	X	X
Business console	Select rule properties to display in the list of rules		X	X	X	X	X
Security	Automatic security logout in the Business console		X	X	X	X	X
Setup and automation	Control access to Decision Center content and permissions		X	X	X	X	X
Setup and automation	Configure settings from the Business console		X	X	X	X	X
Testing and simulation	Export/import testing and simulation artifacts		X	X	X	X	X
Business console	Share content between decision services in the Business console			X	X	X	X
Business console	Lock decision tables from Rule Designer			X	X	X	X
Reporting	Generate reports on decision service content			X	X	X	X
Setup and automation	Explore and manage Decision Center decision services with REST APIs			X	X	X	X
Testing and simulation	Verify and debug test suites in Rule Designer			X	X	X	X
Kubernetes	Deploy to CNCF-certified Kubernetes environments				X	X	X
Reporting	Retrieve execution statistics by REST API				X	X	X
Security	Manage authentication across all ODM components with OpenID Connect				X	X	X
Business console	Create a branch from a snapshot				X	X	X
Testing and simulation	Optimize test suite processing for large rulesets					X	X
Kubernetes	Instructions for deploying on Amazon EKS and Azure AKS					X	X
Security	Configure timeout and autosave in the Business console					X	X
Setup and automation	Run incremental upgrades by REST API					X	X
Business console	Create branches for shared decision service projects						X
Setup and automation	Complete Decision Center installation by REST API						X
Setup and automation	Set roles and permissions by REST API						X
Setup and automation	Upgrade all ODM applications at once						X
Setup and automation	Get warned when the Decision Center DB is out of sync with the ODM version						X
Setup and automation	Improved migration guidance						X

What’s new in ODM 8.10.5

What’s new in ODM 8.10.5 (Dec. 2020)

Long-term support

Security updates and defect fixes will be delivered for a minimum of two years after General Availability date.

Business Console

Create associated branches when creating a shared decision service branch

Admin capabilities: define roles and permissions, configure extension models, manage locks

→ *All critical tasks can now be done without the Enterprise console.*

→ *Decision modeling continues in Automation Decision Services.*

System & Platform

Install iFix and upgrades for all components at once.

Improved doc. for migrating from 8.9 to 8.10

Generate RES HTDS API files for OpenID Connect (upgrade to OpenAPI 3.0).

Kubernetes

Helm 3 support

Container configuration improvements (RES name setup)

Platform Support Updates

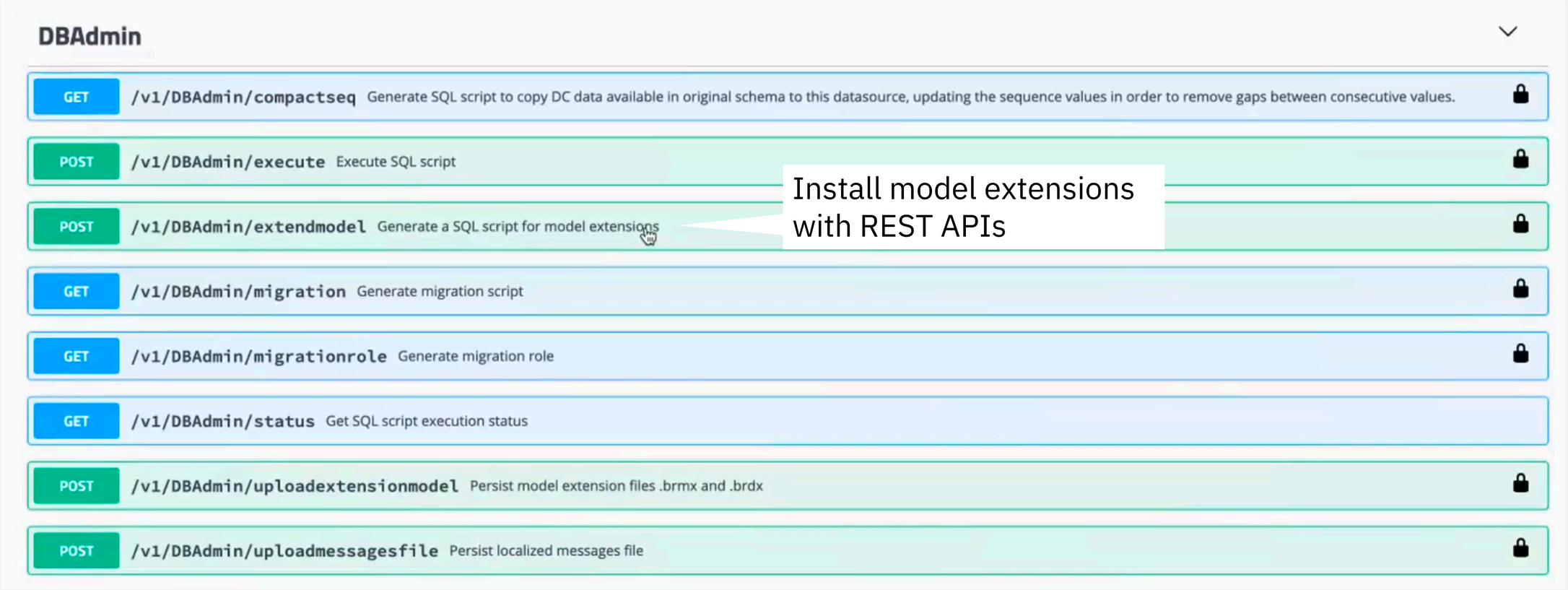
RHEL 8

MS SQL Server 2019

Complete Decision Center installation by REST API

New in 8.10.5

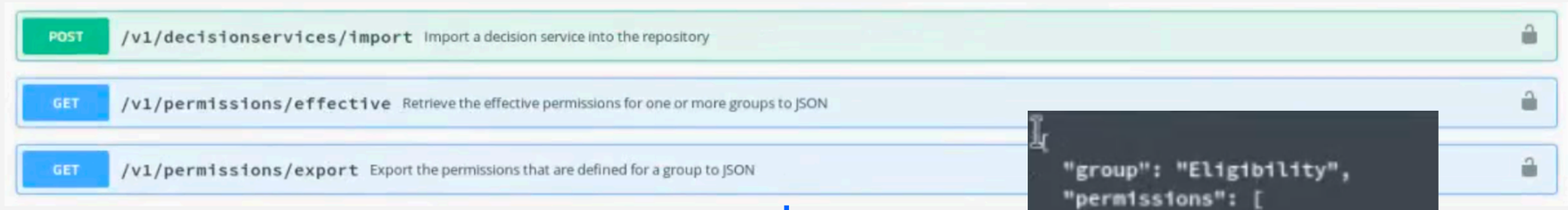
Setup and automation



Set roles and permissions by REST API

New in 8.10.5

Setup and automation



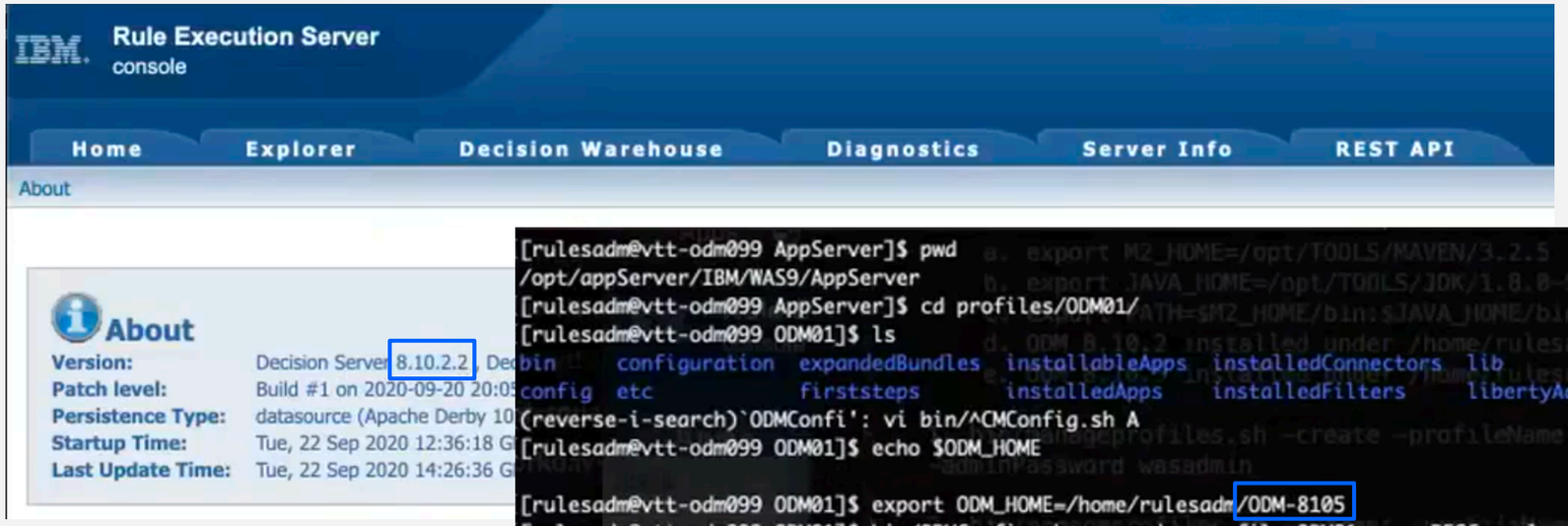
Import and export permissions as a JSON file


```
"group": "Eligibility",
"permissions": [
  {
    "permission": "CREATE",
    "value": "NO",
    "type": "*"
  },
  {
    "permission": "CREATE",
    "value": "YES",
    "type": "brm.ActionRule"
  },
  {
    "permission": "VIEW",
    "value": "YES",
    "type": "*"
  },
  {
    "permission": "UPDATE",
    "value": "NO",
    "type": "*",
    "feature": "*"
  },
```

Upgrade all components at once

New in 8.10.5

Setup and automation




```
[rulesadm@vtt-odm099 AppServer]$ pwd
/opt/appServer/IBM/WAS9/AppServer
[rulesadm@vtt-odm099 AppServer]$ cd profiles/ODM01/
[rulesadm@vtt-odm099 ODM01]$ ls
bin    configuration  expandedBundles  installableApps  installedConnectors  lib              logs      servers  tranlog   wstemp
config  etc           firststeps       installedApps    installedFilters     libertyAdvisor   properties  temp     workspace
(reverse-i-search)`ODMConfi': vi bin/^CMConfig.sh A
[rulesadm@vtt-odm099 ODM01]$ echo $ODM_HOME

[rulesadm@vtt-odm099 ODM01]$ export ODM_HOME=/home/rulesadm/ODM-8105
[rulesadm@vtt-odm099 ODM01]$ bin/ODMConfig.sh -upgrade -profile ODM01 -app RESConsole -adminUsername wasadmin -adminPassword wasadmin
Checking ODM installation directory
Upgrading RESConsole from '/home/rulesadm/ODM-8105' on profile ODM01
```

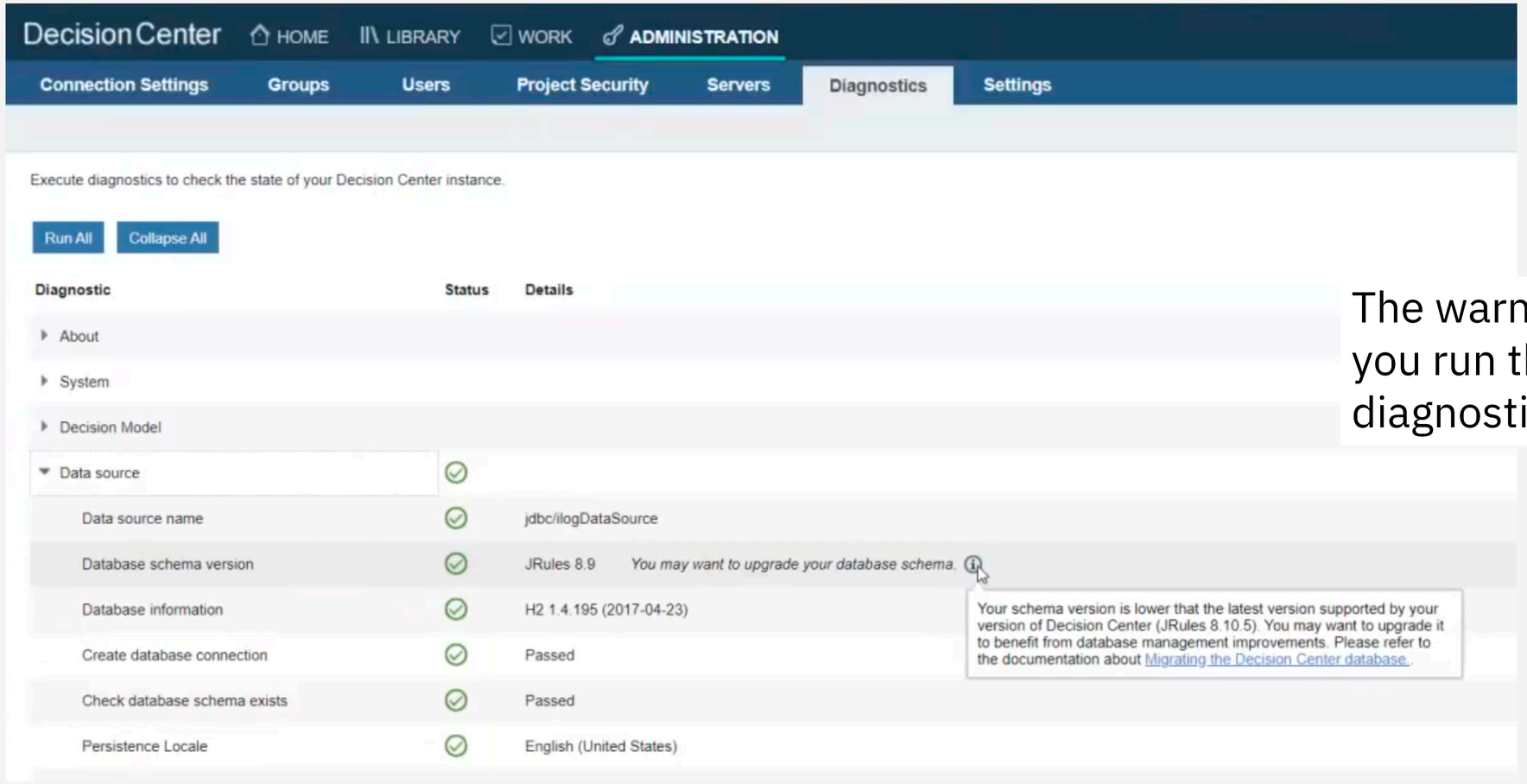
Upgrade a specific profile
(HTDS, Decision Center, XU, SSP)
Upgrade a full cluster

```
##########################################################################################
 ODM application has been successfuly upgraded. (You may need restart your server)
##########################################################################################
```

Get warned when the Decision Center database is not in sync with ODM version

New in 8.10.5

Setup and automation

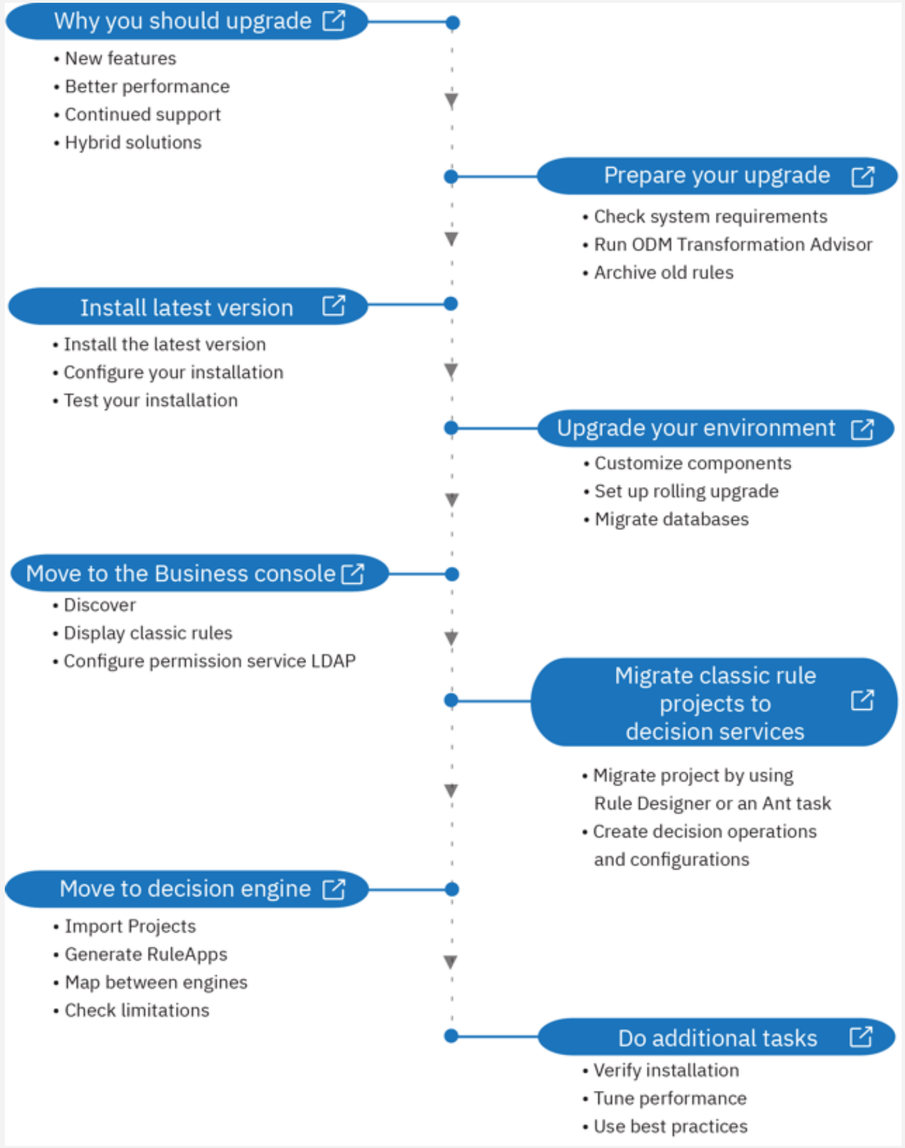


The warning appears when you run the Decision Center diagnostics

Improved migration guidance

New in 8.10.5

Setup and automation



Knowledge Center instructions, with focus on migration from 8.9 to 8.10

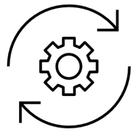
Perform all Decision Center critical tasks with the Business console and REST APIs

	Business console and REST APIs	8.9	8.10.1	8.10.2	8.10.5
Author	Manage decision service projects	●	●	●	●
	Author rules with the Intellirule Editor	●	●	●	●
	[N] Create ruleflows	●	●	●	●
	Author functions and technical rules	○	○	●	●
Validate	Run tests and simulations	●	●	●	●
Deploy	Create deployment configurations	●	●	●	●
Manage	Manage servers	●	●	●	●
	[N] Govern releases with a built-in framework	●	●	●	●
	Share content between projects	○	○	●	●
	Define roles and permissions	○	○	○	●
	Manage branches	●	●	●	●
	[N] Create decision operations	●	●	●	●
	Manage dynamic domains	●	●	●	●
	[N] Receive notifications	●	●	●	●
	Generate reports	○	●	●	●
	Run queries and search	●	●	●	●
Configure	Set configuration parameters	○	◑	◑	●
	Set build options	○	●	●	●
	Run diagnostics	●	●	●	●

[N] – New capabilities of the Business console that were not available in the Enterprise console.

The Business console has evolved to cover all Decision Center critical tasks previously managed in the Enterprise console, and more.

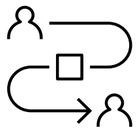
Decision Center Enterprise console is deprecated: your next steps



Enhance governance for business users in the Business console, while gaining better control of your deployments, with decision service projects.

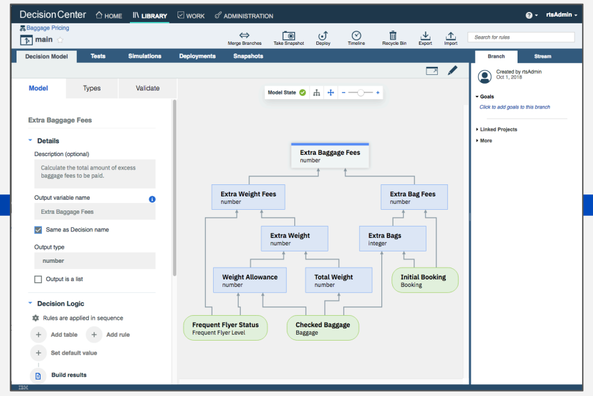
Integrate and automate many common activities with Decision Center REST APIs.

Improve runtime performance with the decision engine.



Contact your account representative or engage with services to migrate customized projects.

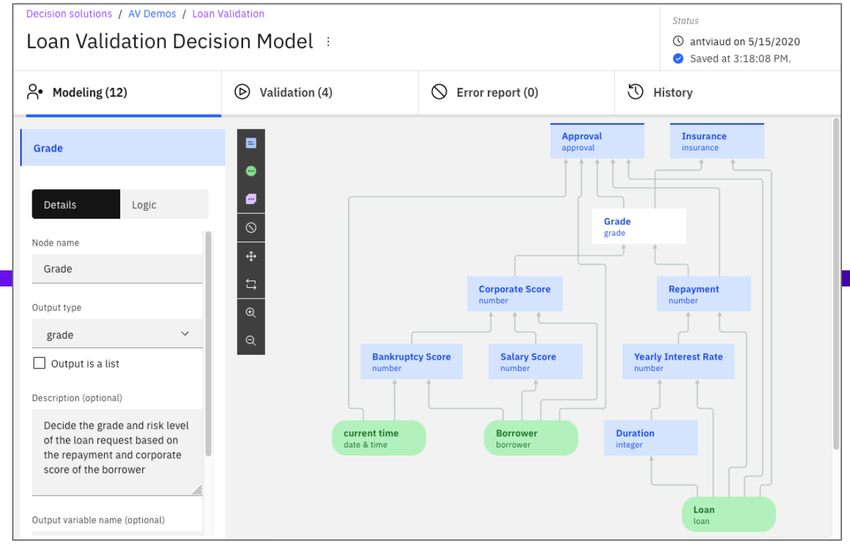
Decision modeling continues in Automation Decision Services



ODM 8.10.5 Deprecation of decision modeling

IBM Cloud Pak for Automation 20.0.3 Decision model import in ADS

	ODM	ADS
Create DMN-like decision models	☒	☒
Create data models	☒	☒
Validate models in place	☒	☒
Compose decision models	☐	☒
Author in several locales	☐	☒
Verbalize the data model	☐	☒
Invoke predictive models	☐	☒
Collaborate with other users	☐	☒



ADS can import decision models created in ODM or Decision Composer

What’s new in ODM 8.10.4

What’s new in ODM 8.10.4 (June 2020)

Enhanced Business console productivity

Autosave on timeout

Create a branch from a snapshot

Faster troubleshooting

HTDS performance logs

Additional events logged in Decision Center for debugging

Smoother upgrades

Upgrade the Decision Center database by REST API

Run migration scripts incrementally

Finer configuration of ODM container

Setup instructions for Amazon EKS and Azure AKS.

Configure OpenID Connect

Platform Support Updates

Java 8.0.5.4

PostgreSQL 12

WebSphere® Application Server ND 9.0.5

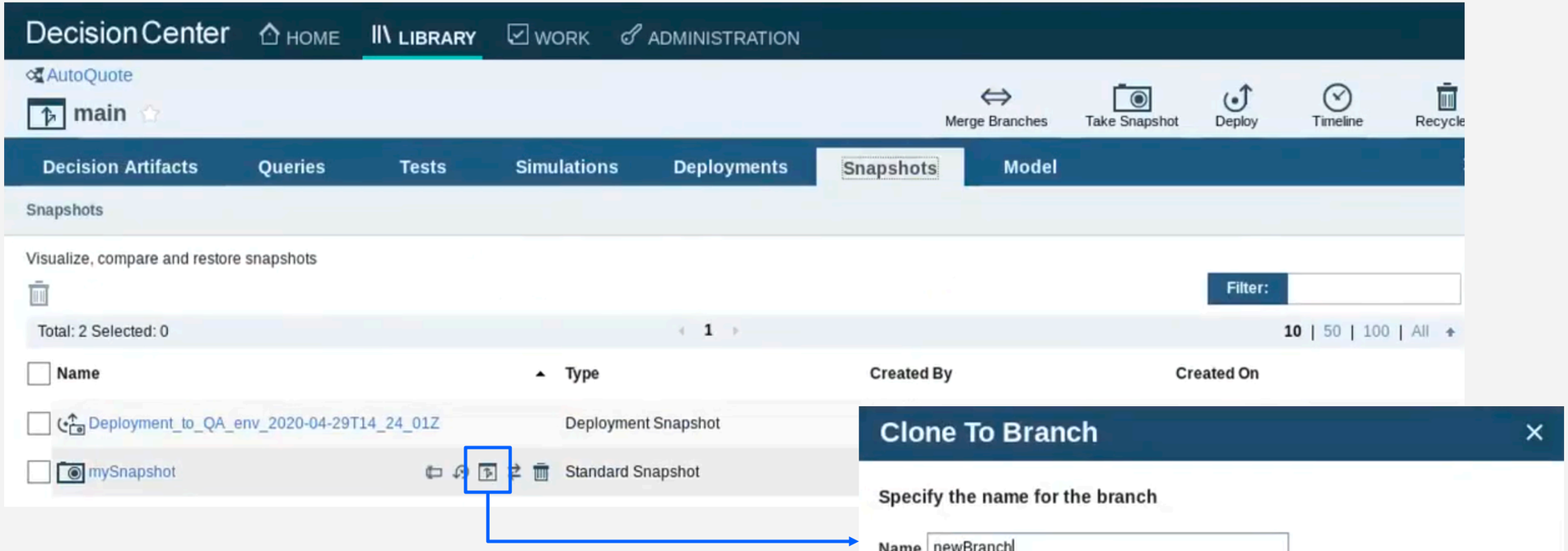
WebSphere® Application Server Liberty 20.0.0.3

Apache Tomcat 9

Create a branch from a snapshot

New in 8.10.4

Business console

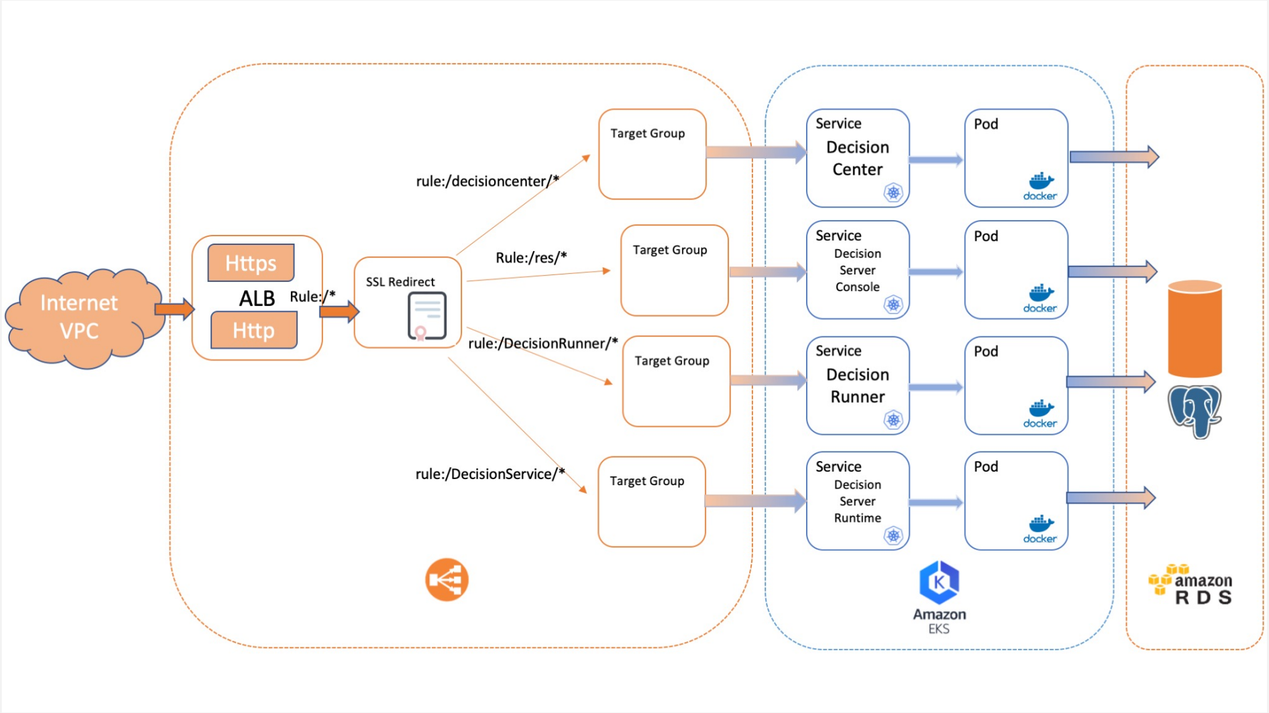


Create a new branch from any type of snapshot

Deploying ODM to EKS & AKS

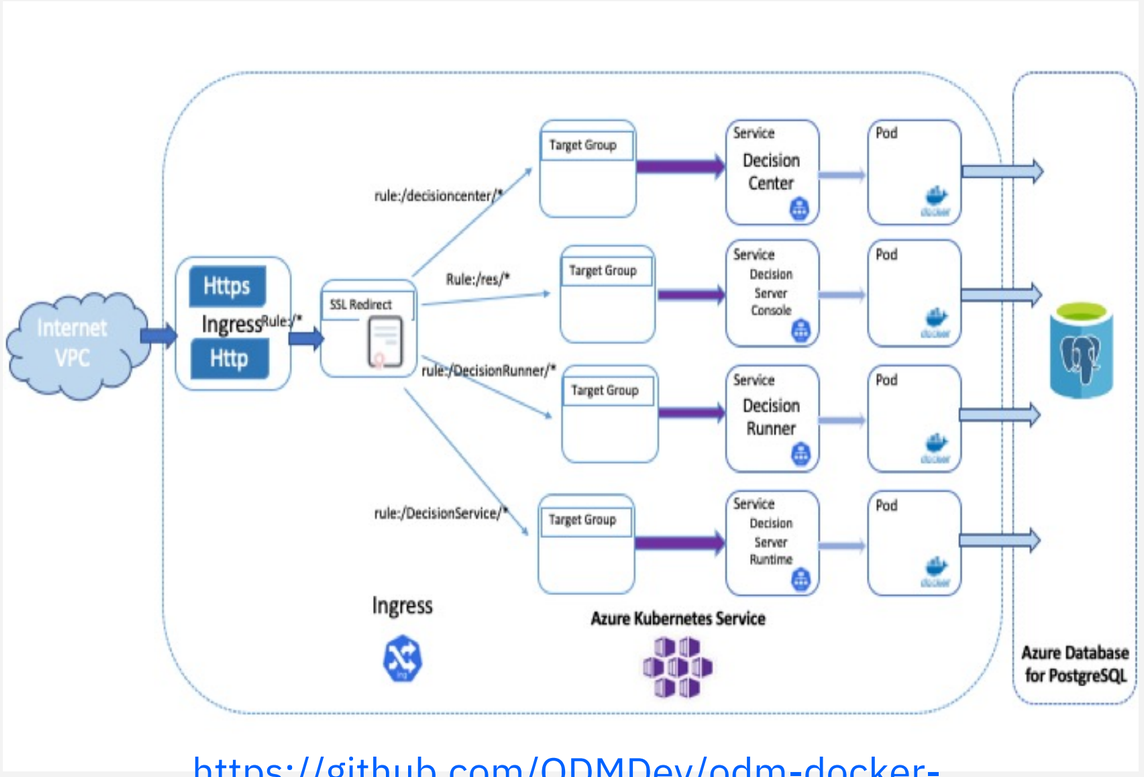
New in 8.10.4
Container support

Amazon EKS



https://github.com/ODMDev/odm-docker-kubernetes/blob/master/eks/README.md

Azure AKS

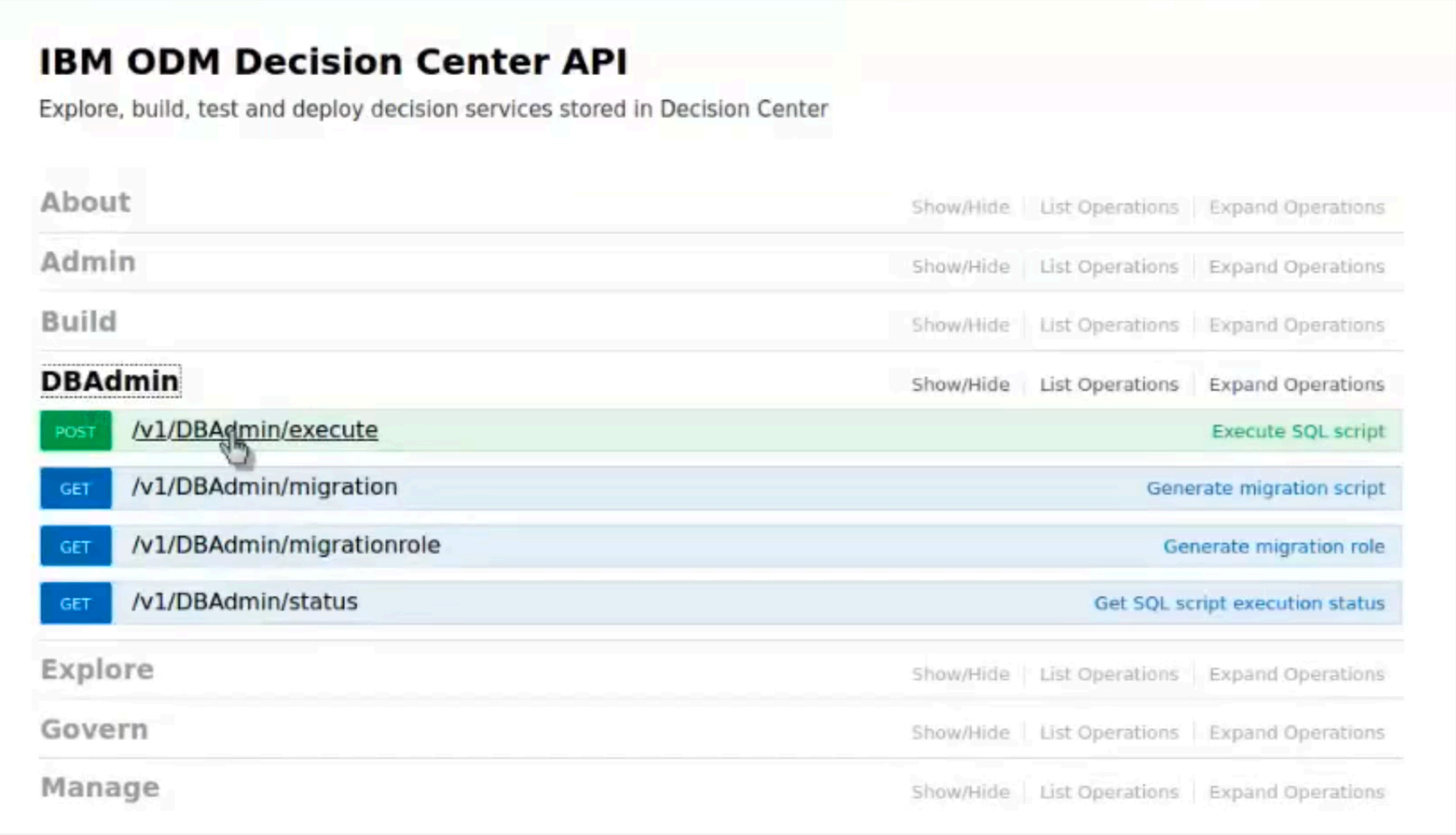


https://github.com/ODMDev/odm-docker-kubernetes/blob/master/azure/README.md

Run incremental upgrades by REST API

New in 8.10.4

Setup and automation

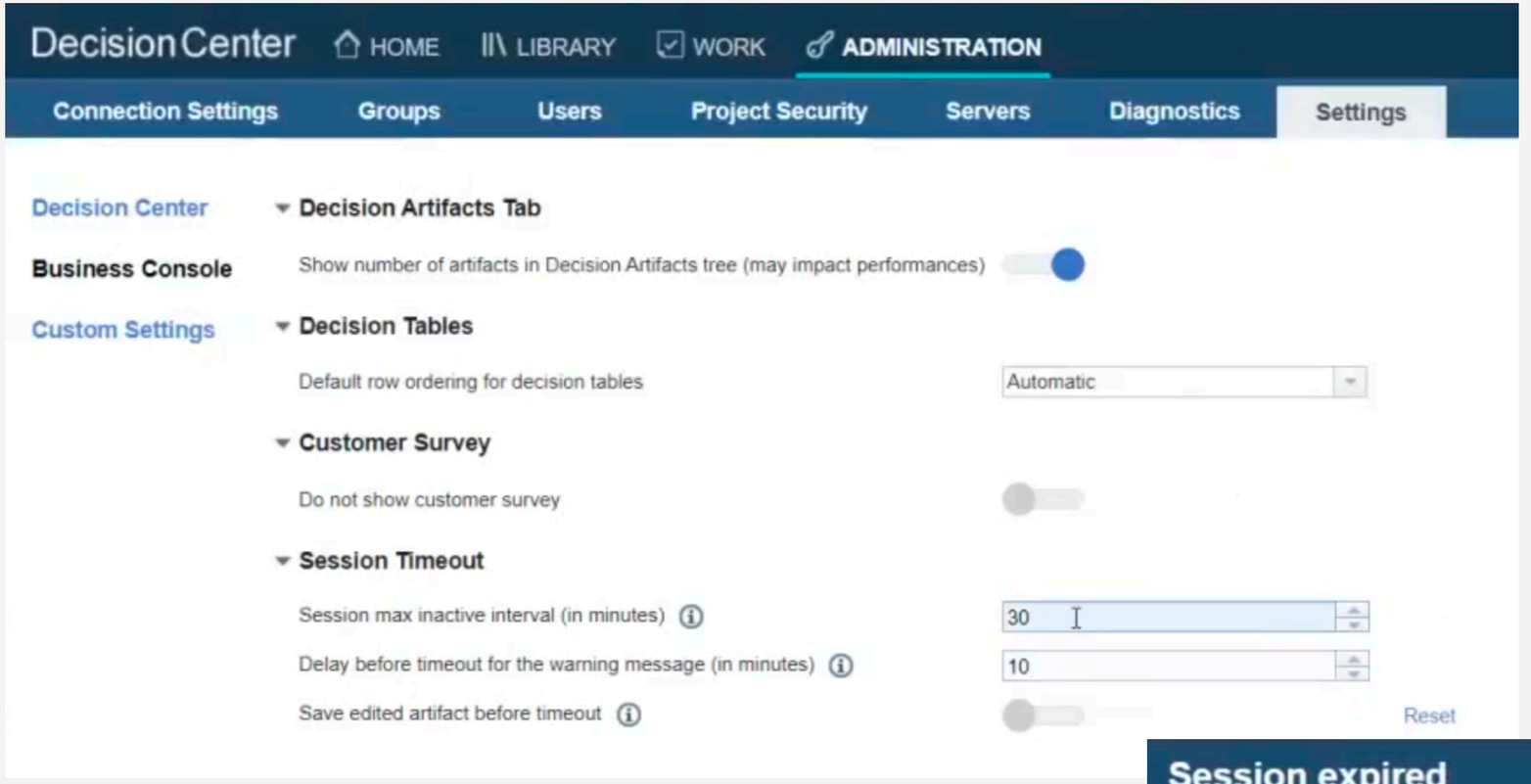


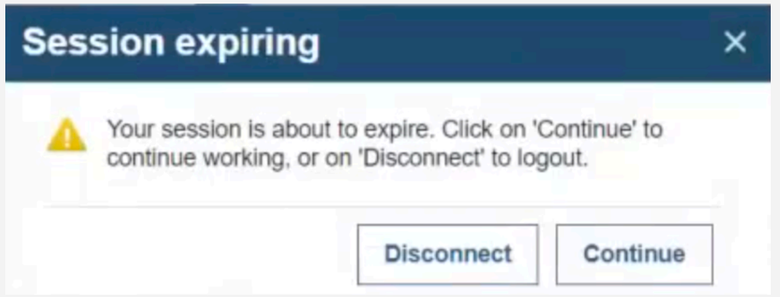
1. Select the migration role
2. Generate the SQL script
3. Run the SQL script
4. Review the status

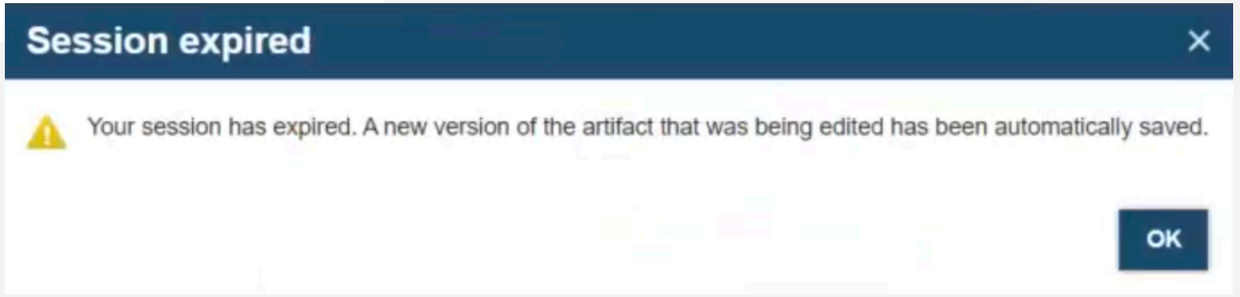
Have your work automatically saved on timeout

New in 8.10.4

Security and authentication







What’s new in ODM 8.10.3

Supported container environments

New in 8.10.3

Container support

IBM Operational Decision Manager as part of **IBM Cloud Pak for Automation entitlement**

- Delivered as an operator as part of the IBM Cloud Pak for Automation installation
- Provides native OpenShift support.

IBM Operational Decision Manager standalone entitlement

- Starting with version 8.10.3, ODM supports CNCF-certified container environments
- Support statement: IBM Operational Manager for Certified Kubernetes Platforms

- Delivered as a Helm chart on Passport Advantage, under the ODM Product ID.
- See Software Product Compatibility Report

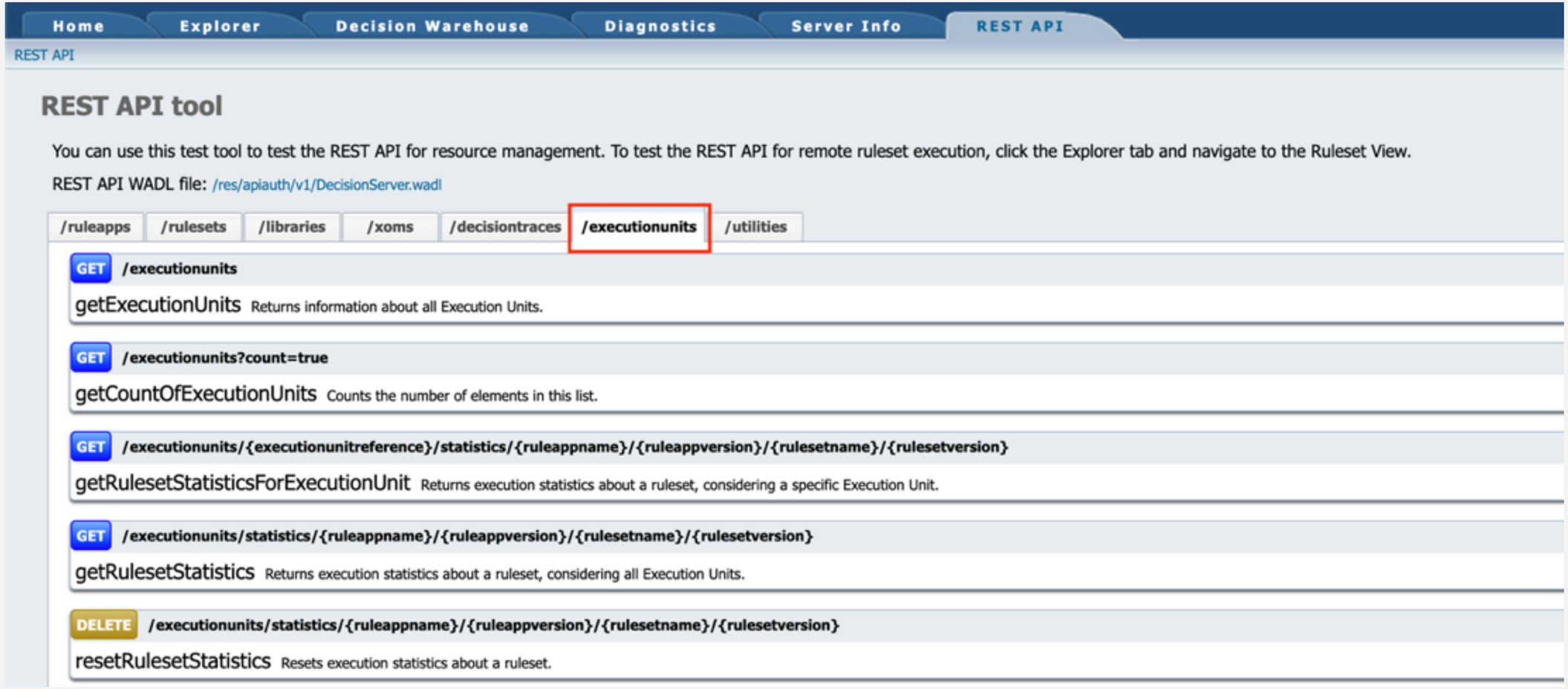
IBM technical support for IBM Operational Decision Manager in a qualified Kubernetes environment is limited to the code that is developed by IBM.

Retrieve execution statistics by REST API

New in 8.10.3

Reporting and diagnostics

You can now identify execution units and retrieve their execution statistics by API.

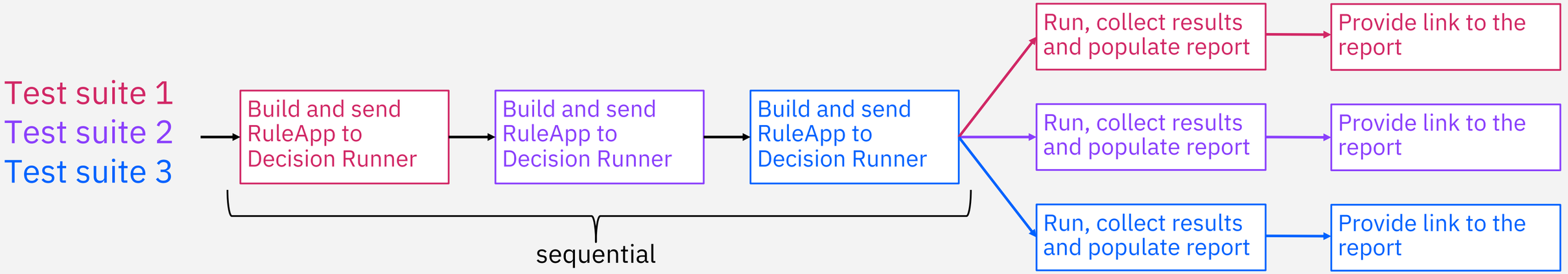


Test suite processing optimization for large rulesets

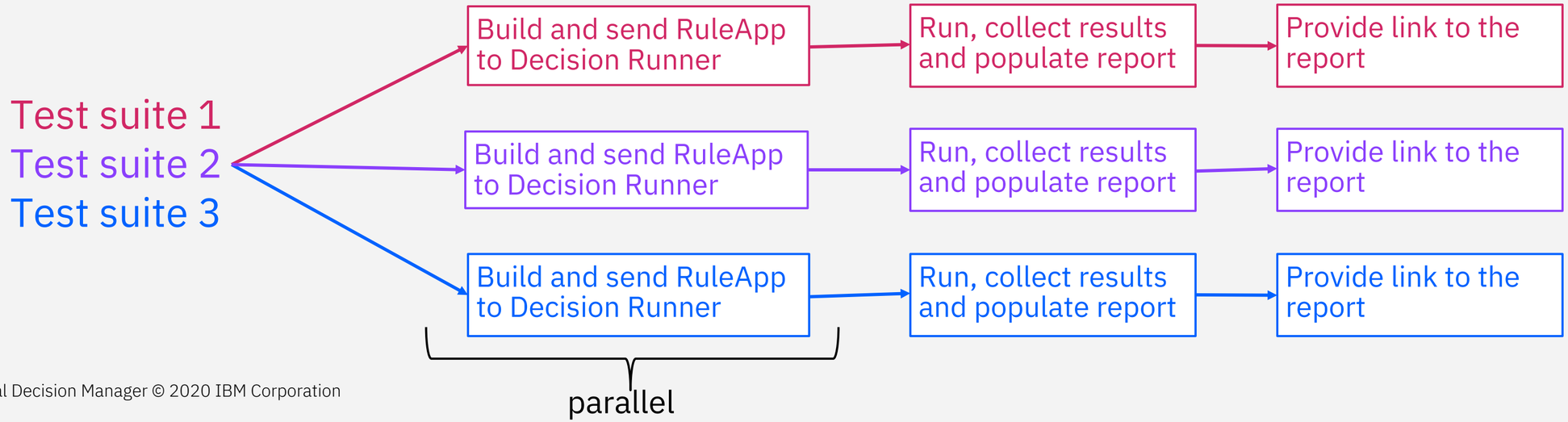
New in 8.10.3

Testing and simulation

By default, test suite rulesets are built in sequence:



For large rulesets, **optimize processing** by setting the parameter `decisioncenter.testsuites.threadpool.size`:



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Connect once, access anywhere with OpenID Connect

New in 8.10.3

Security and authentication

- ✓ Secure, password-less Web and API authorization
- ✓ Identity federation: reuse your identity servers
- ✓ Compliance with security policies
- ✓ Central place to manage and monitor accounts

Requirements:

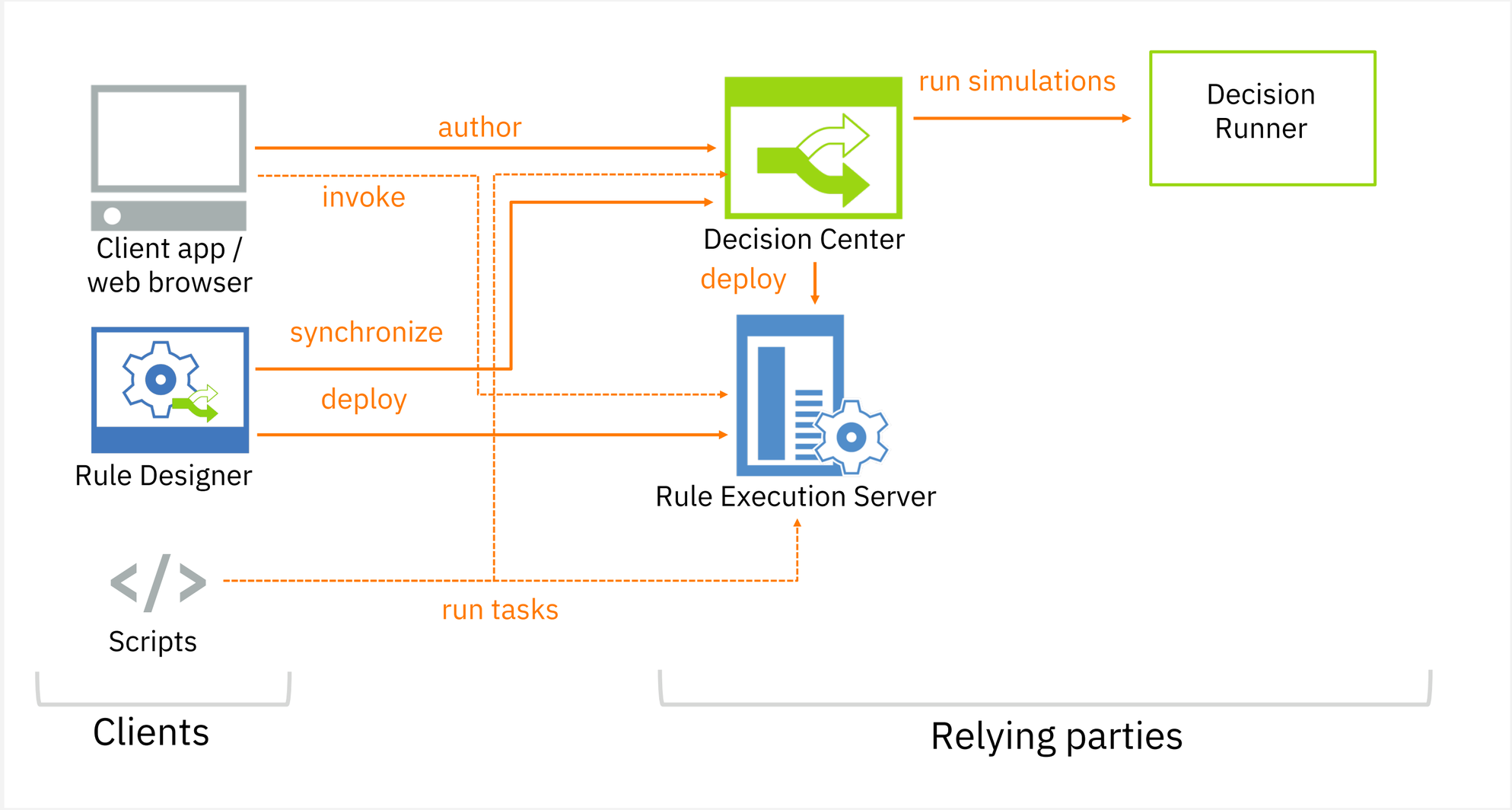
- An OpenID Connect provider is in place
- App server is WAS Liberty
- RES Decision Services are configured as protected

For ODM on-prem only.

Manage authentication across all ODM components

New in 8.10.3

Security and authentication

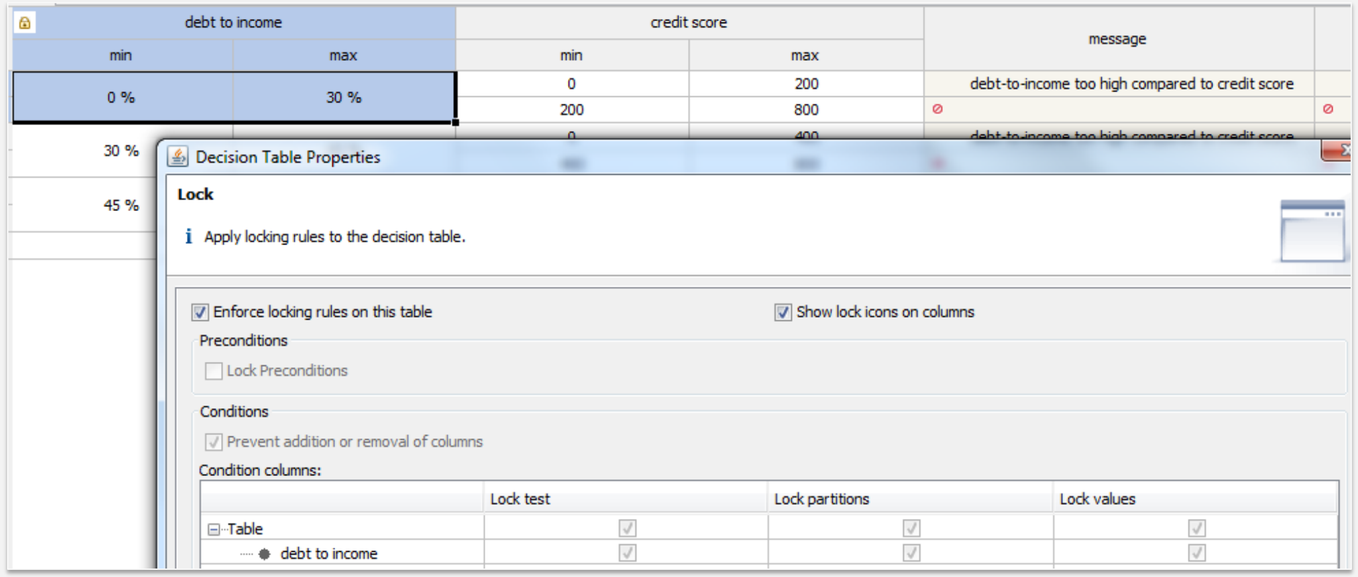


What’s new in ODM 8.10.2

Lock decision tables

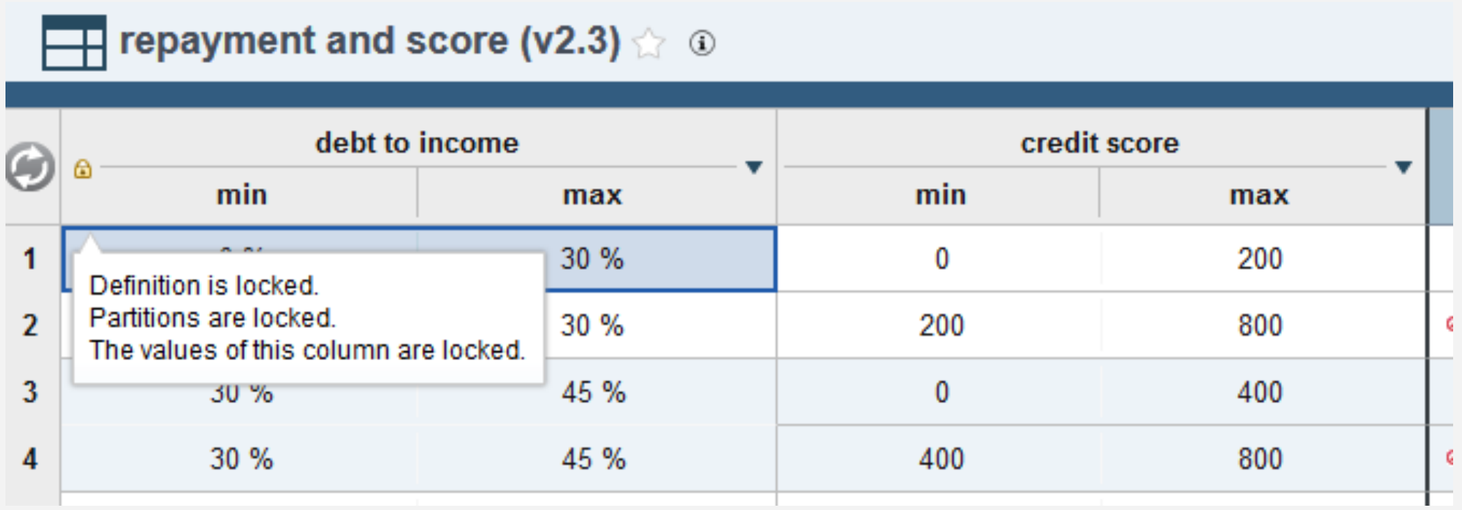
New in 8.10.2

Business console



Prevent unauthorized or accidental changes to decision table content

Define locks in Rule Designer, Enforce in Business Console



Share rule content between decision services

New in 8.10.2

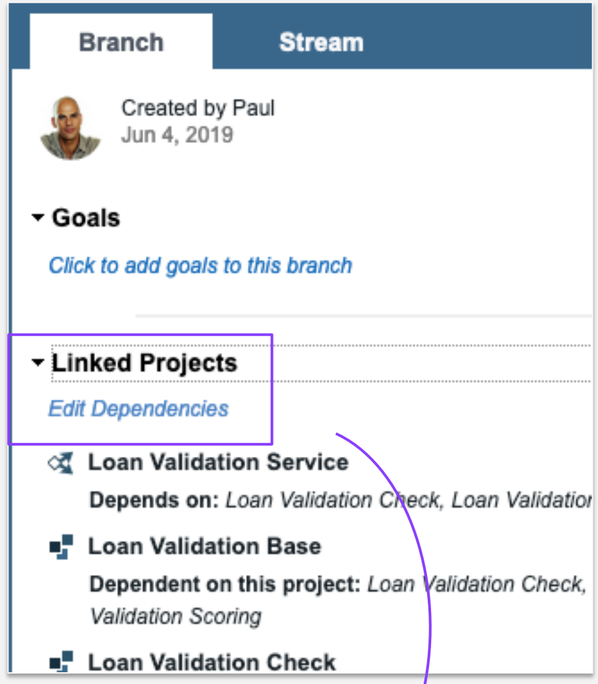
Business console

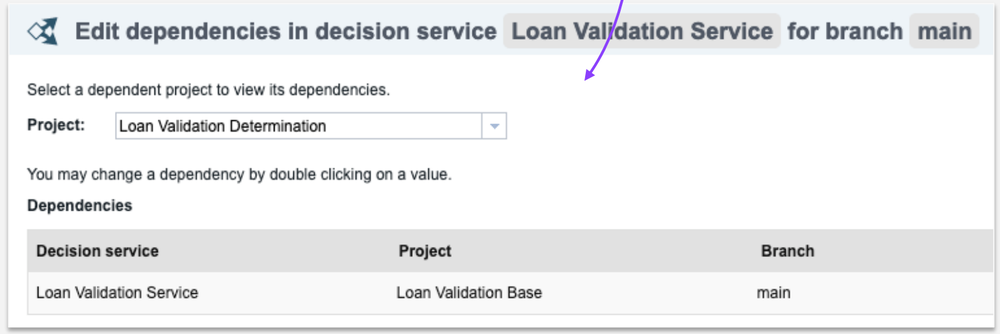
Allow 2 or more decision service branches to reference the same rule content, from a shared project branch

Benefits:

- Make a change once (to a BOM for instance) in a given project branch, and automatically propagate this update to all other decision services branches referencing that shared branch.
- Facilitate migrations from classic rule projects using shared branches

Feature only available for regular branches (not for governed releases – activities)

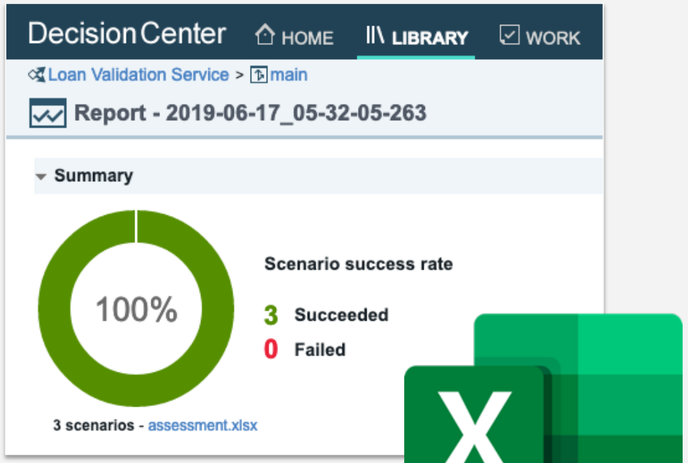




Verify and debug test suites in Rule Designer

New in 8.10.2

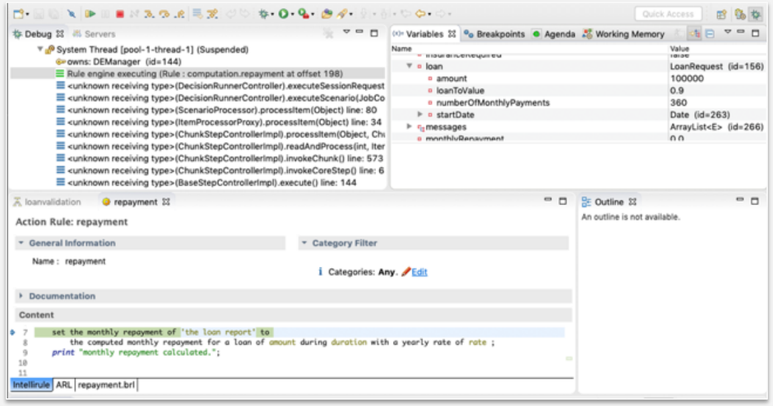
Testing and simulation



Using a test suite file that typically comes from Decision Center

```
************************************************************
Scenario Number 0 : 'Very low risk' = Success
Time = 32, Nb Executed Rules = 15, Nb Executed Tasks = 6
************************************************************
Scenario Number 1 : 'Big Debt/Income loan' = Success
Time = 3, Nb Executed Rules = 13, Nb Executed Tasks = 5
************************************************************
Scenario Number 2 : 'High loan' = Success
Time = 1, Nb Executed Rules = 6, Nb Executed Tasks = 3
************************************************************
Nb Executed 3
Nb Failures 0
Nb Errors 0
End running the JVM for testing
```

Verify in Rule Designer that decision service test scenarios are working properly



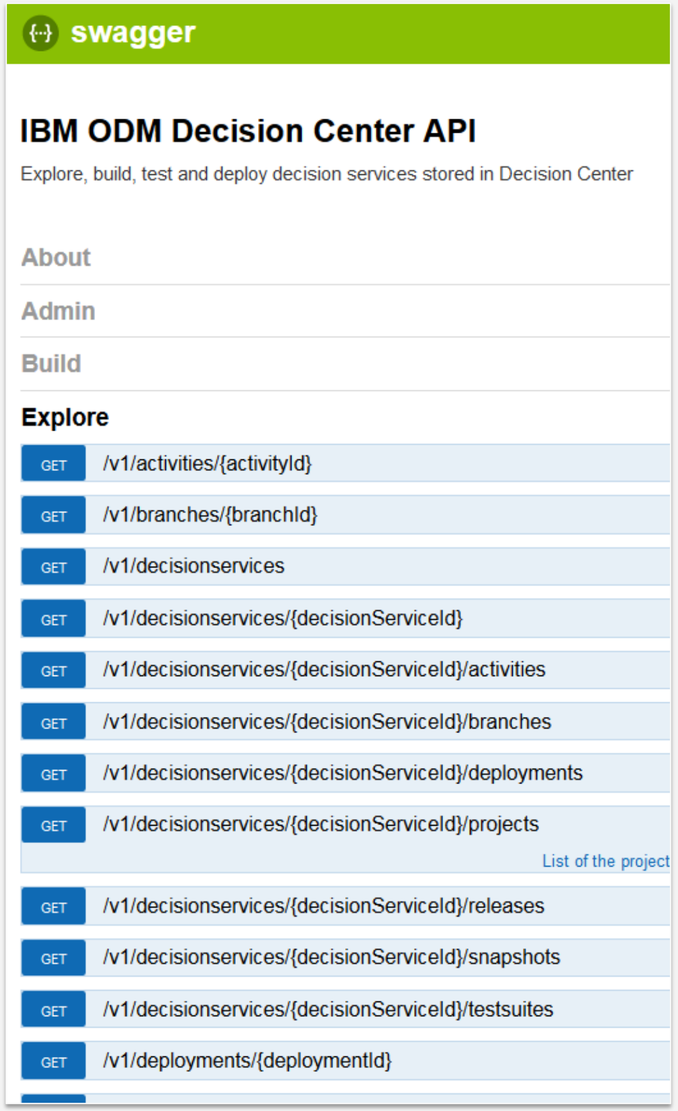
Debug in Rule Designer when outcome of test scenario execution doesn't match expected results

Explore and automate decision services by REST API

New in 8.10.2+

Setup and automation

- Enable creation of custom reports on decision service content, to audit your repository
- For example:
  - Generate lists of the project elements in a decision service (rules, folders, decision operations, and so on)
  - Create a snapshot of a decision service
  - Delete a test report

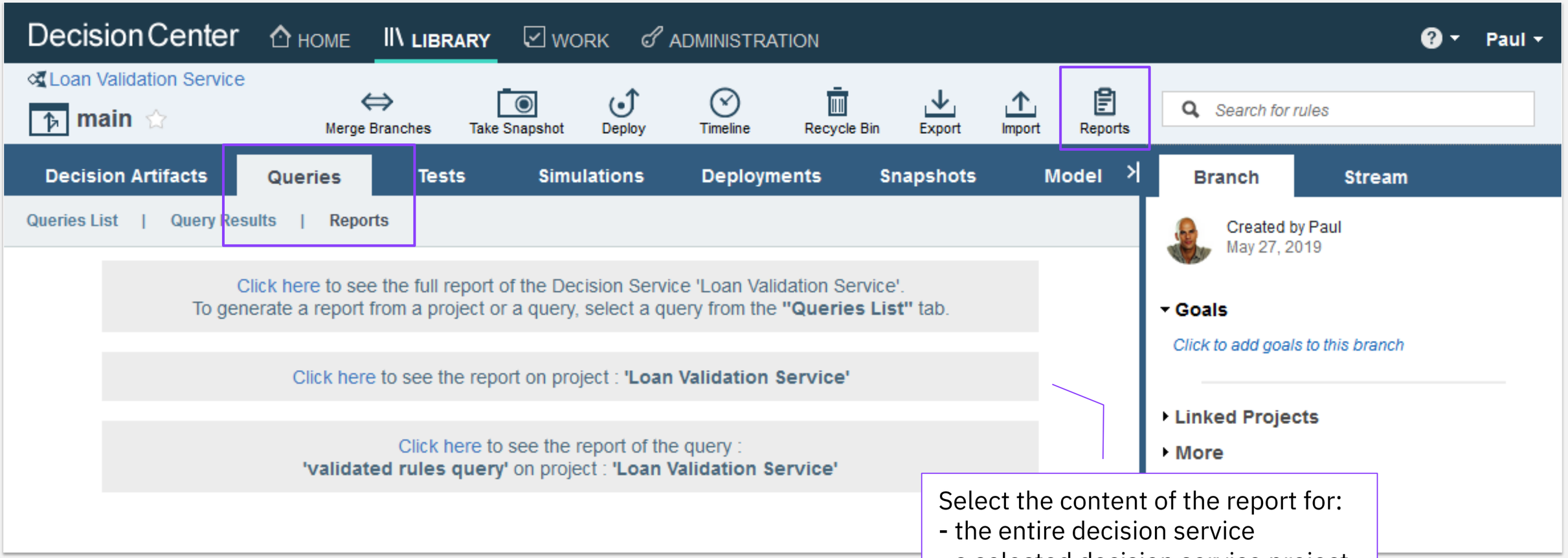


Generate reports on decision service content

New in 8.10.2

Reporting and diagnostics

Generate a report to share content outside Decision Center, or for auditability purposes



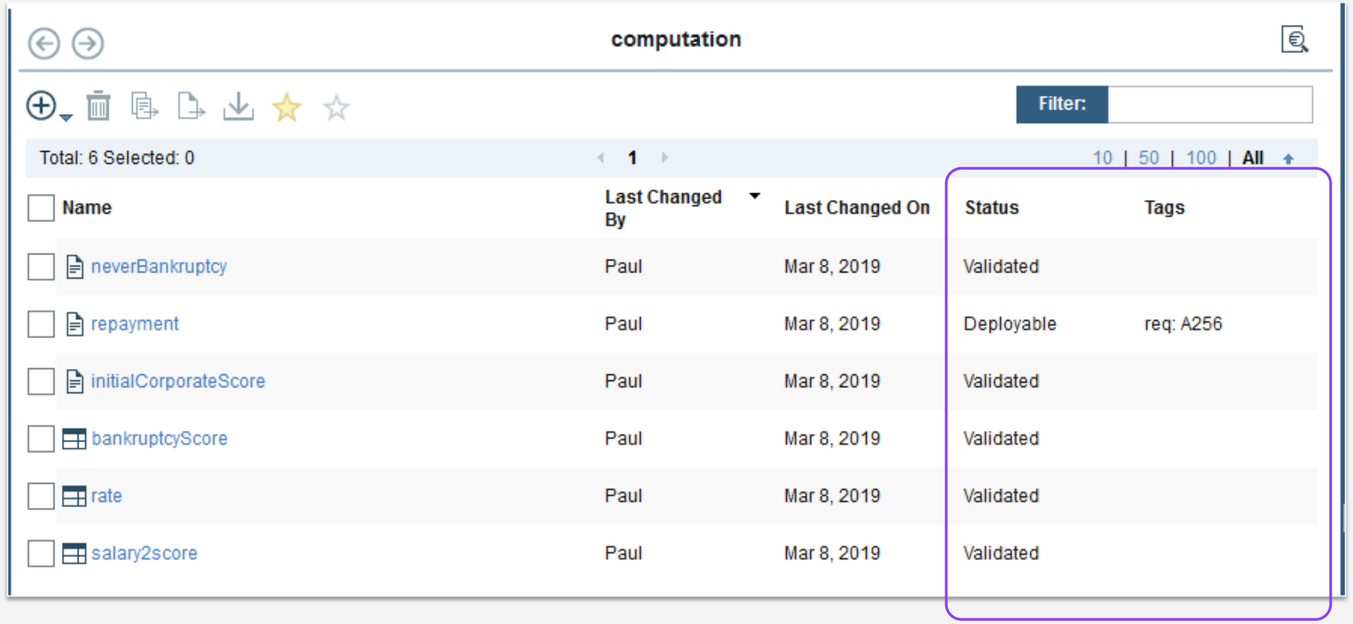
Select the content of the report for:
- the entire decision service
- a selected decision service project
- the results of a selected query

What’s new in ODM 8.10.1

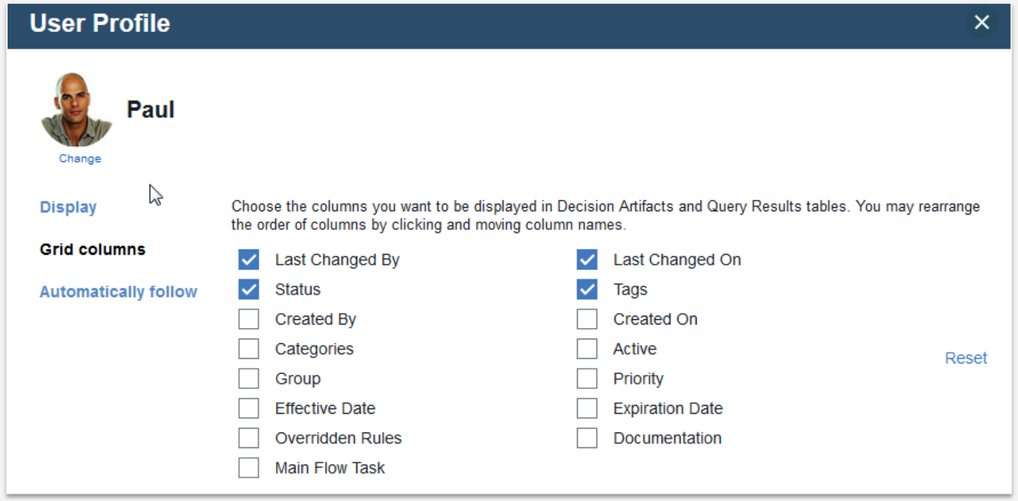
Select rule properties to display in list of rules

New in 8.10.1

Business console



Configurable grid columns to display rule properties, in Decision Artifacts and Queries results tabs

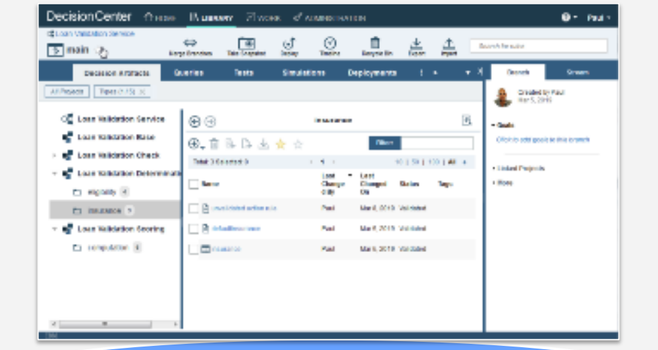


Each user can select the properties to be displayed

Export and import test suites and simulation artifacts

New in 8.10.1

Testing and simulation



Decision Center repository

export

import

Zip

Contains decision service artifacts for a branch.
Now includes test suites and simulation artifacts

Benefits:

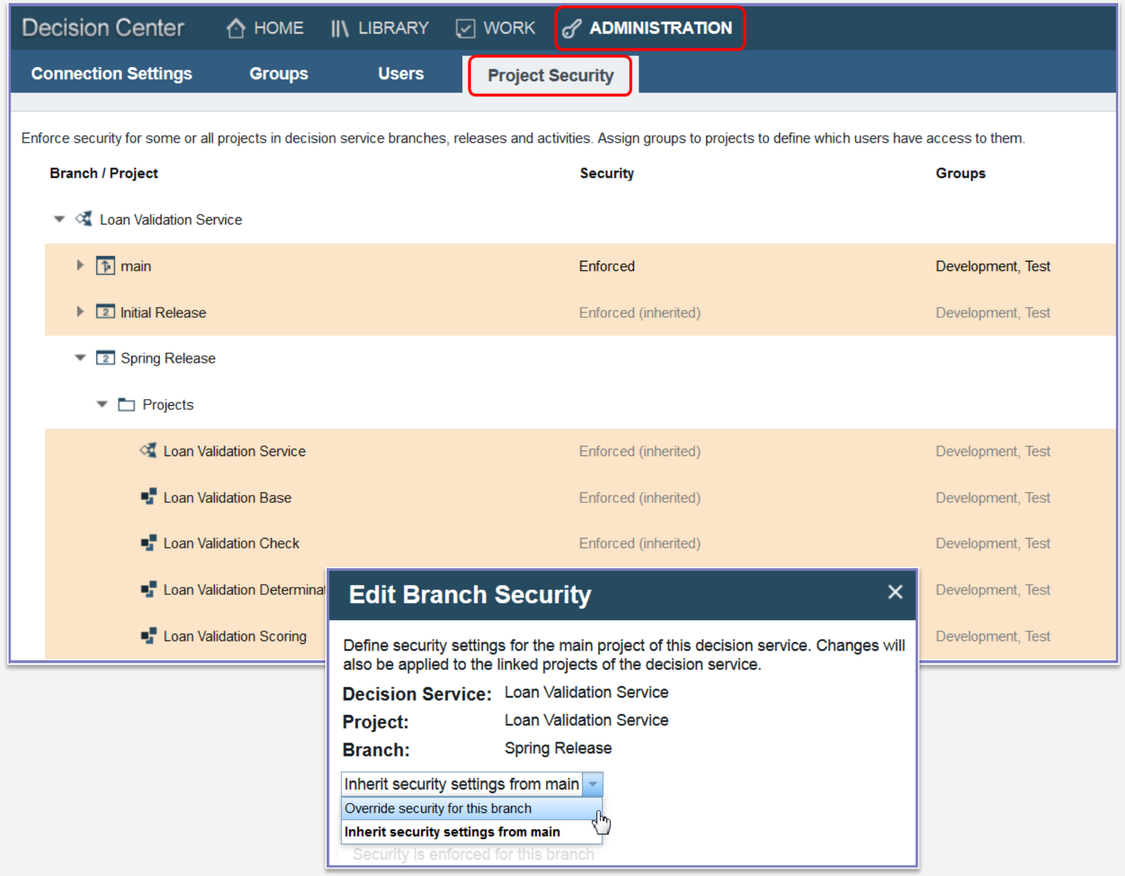
Ensure that all artifacts created in Decision Center can be:

- Included in file backups
- Copied from one repository to another

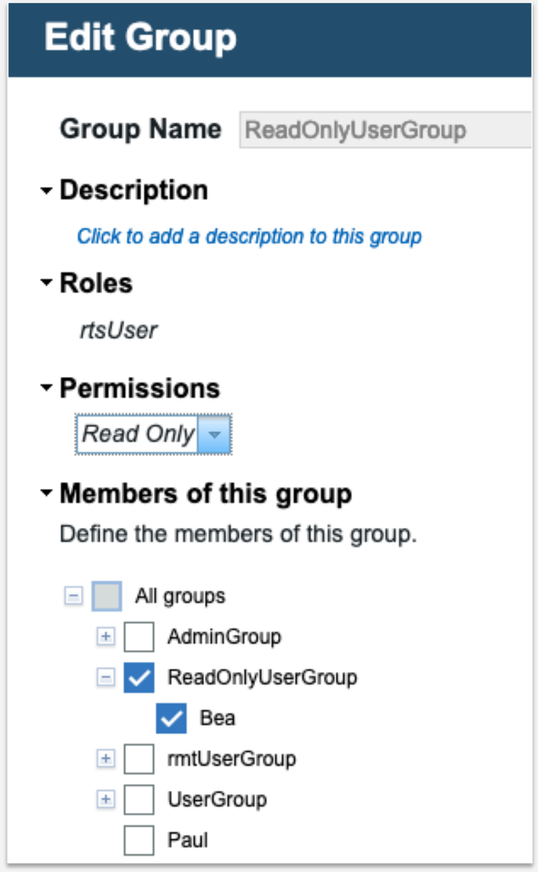
Control access to decision content and permissions

New in 8.10.1

Setup and automation



Select users authorized to access decision projects & branches

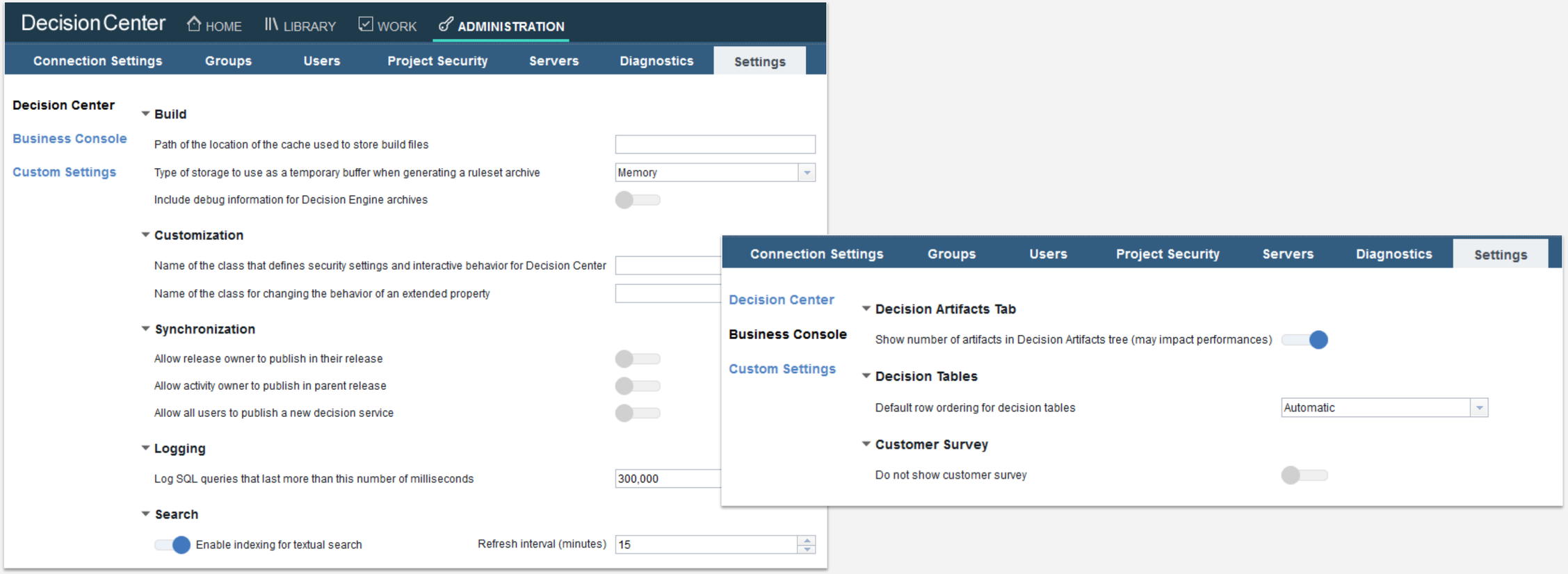


Configure permissions to view, edit and deploy decision content

Configure settings from the Business Console

New in 8.10.1

Setup and automation

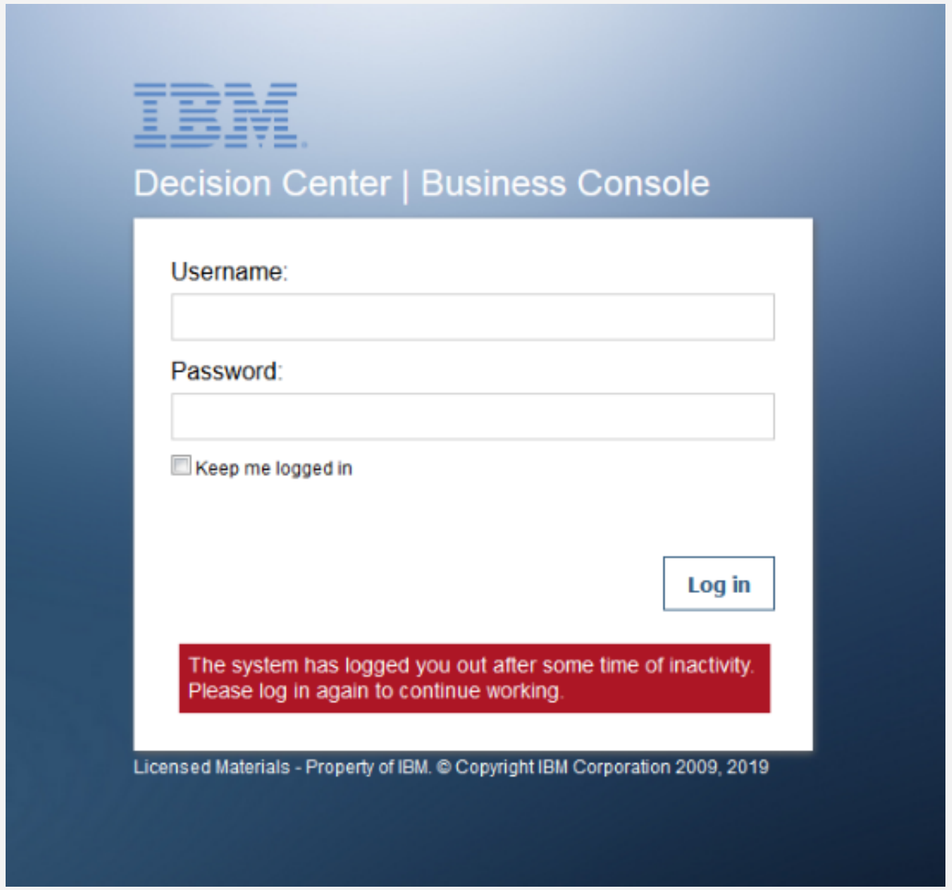


Automatic security logout from Business Console

New in 8.10.1

Security and authentication

Automatic logout after a period of inactivity:



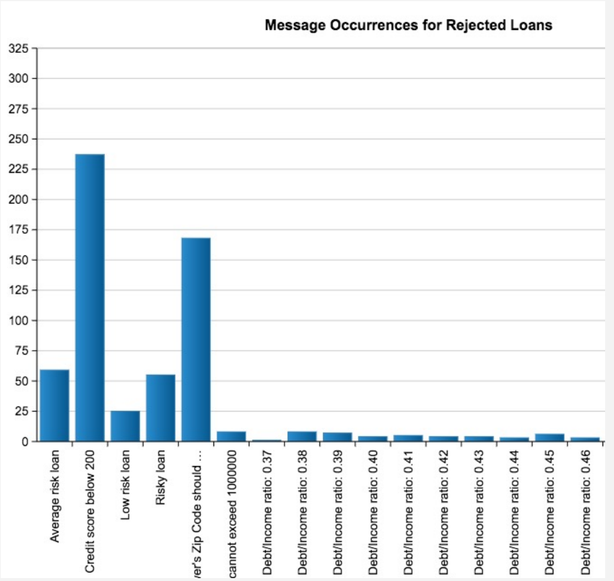
What’s new in ODM 8.10.0

Gain visibility on business outcomes with custom KPIs for decision service simulations

New in 8.10.0

Testing and simulation

- Simulations in Business Console are simple to use:
  - Business language to express metrics and KPIs
  - No dev required
- Pain point: some users need more flexibility to define their KPIs
- **Solution: support for custom KPIs defined with Java**
  - With custom code handling computation and custom HTML display
  - Dynamic: no Decision Center repackaging needed
  - It addresses the gap with deprecated DVS simulations

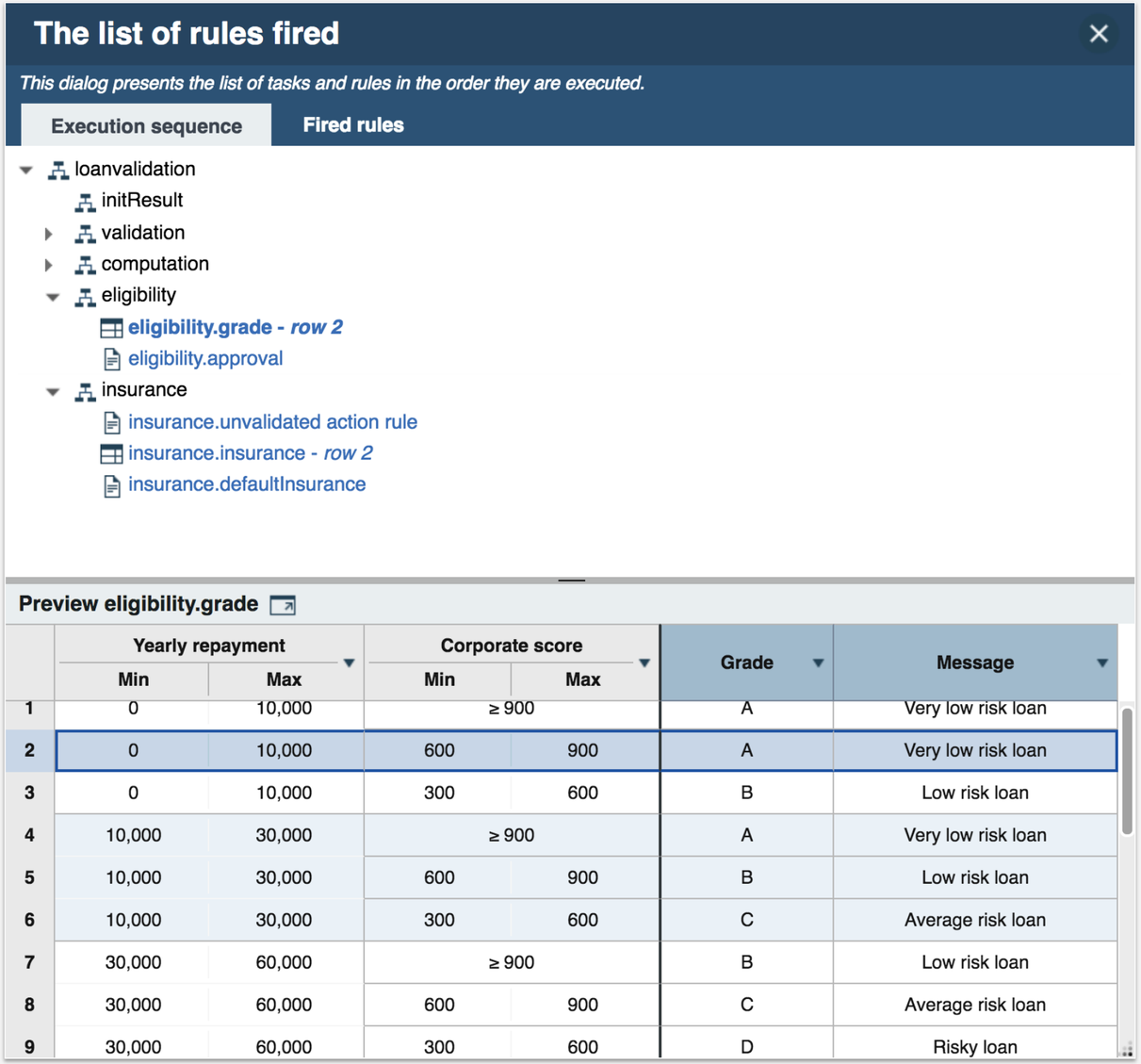


View how a test scenario was executed

New in 8.10.0

Testing and simulation

- Problem solved:
  - No visibility on the complete execution sequence (tasks + rules) for a test run
- Solution: a new panel showing the execution sequence in a test report
  - Executed tasks and rules combined
  - Embedded view for each executed rule

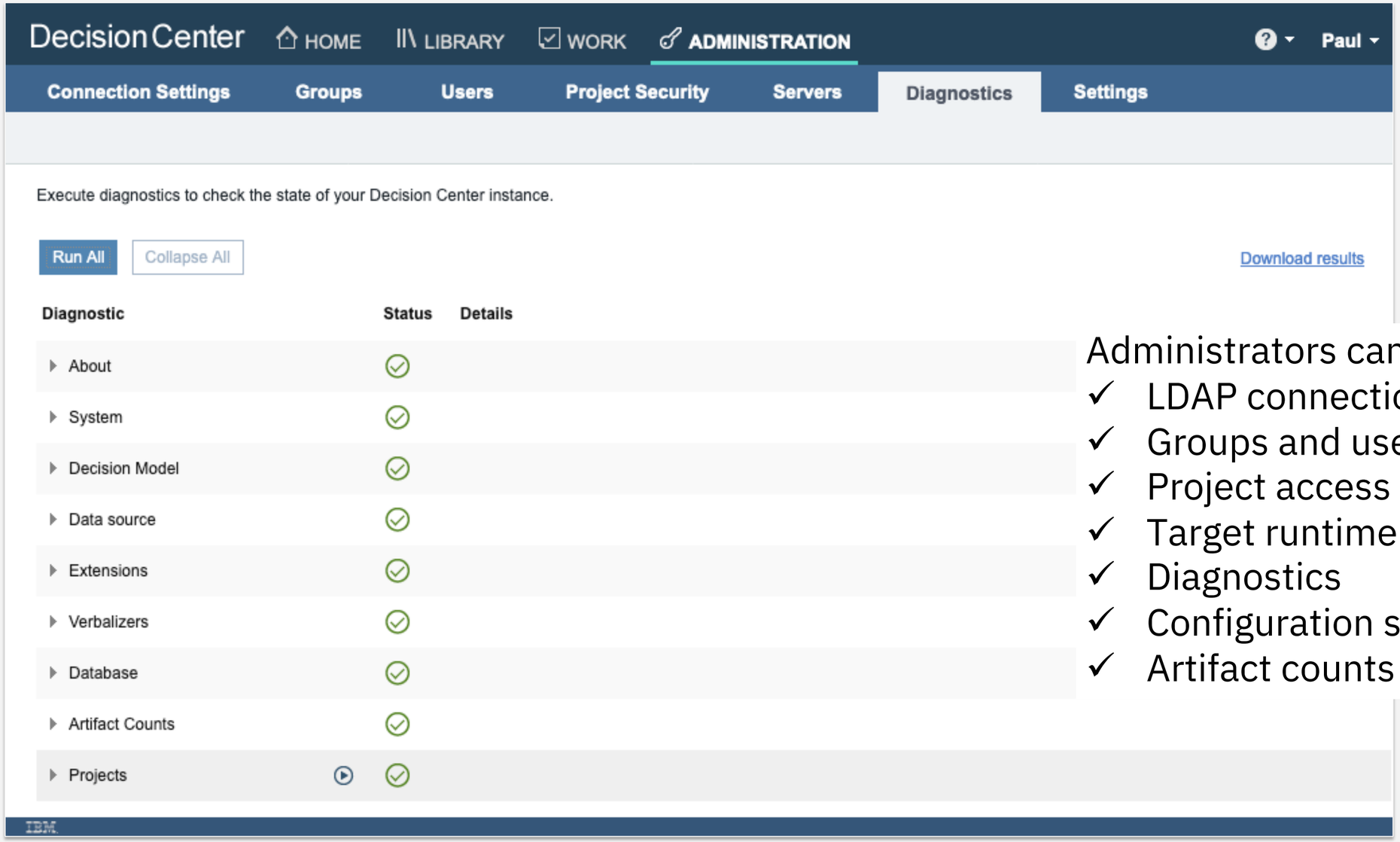


	Yearly repayment		Corporate score		Grade	Message
	Min	Max	Min	Max		
1	0	10,000	≥ 900		A	Very low risk loan
2	0	10,000	600	900	A	Very low risk loan
3	0	10,000	300	600	B	Low risk loan
4	10,000	30,000	≥ 900		A	Very low risk loan
5	10,000	30,000	600	900	B	Low risk loan
6	10,000	30,000	300	600	C	Average risk loan
7	30,000	60,000	≥ 900		B	Low risk loan
8	30,000	60,000	600	900	C	Average risk loan
9	30,000	60,000	300	600	D	Risky loan

Configure and manage Decision Center

New in 8.10.0

Setup and automation

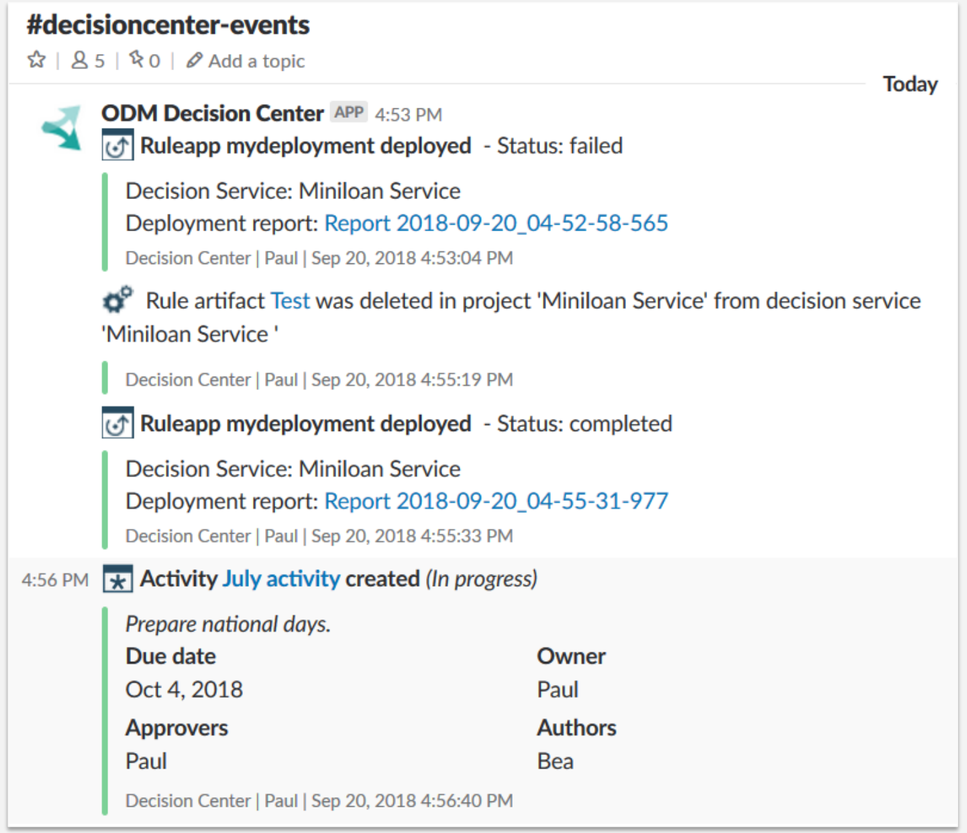


Administrators can configure:

- ✓ LDAP connections
- ✓ Groups and users
- ✓ Project access and permissions
- ✓ Target runtime servers
- ✓ Diagnostics
- ✓ Configuration settings
- ✓ Artifact counts

Get notified on updates within Decision Center

New in 8.10.0

Reporting and diagnostics

- Problem solved:
  - Limited visibility on what others are doing in Decision Center
  - No notification outside Decision Center
- Solution:
  you can receive notifications in your favorite tools
  - Via emails, Slack, etc.
  - For common Decision Center events:
    - Changes in governed releases and activities
    - Rule updates
    - Decision service deployments
  - Sample with Slack integration