

# KNIME Server Release Notes and Update Guide

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# Release Notes

KNIME Server 4.11 is a feature release of the 4.x release line. All clients that have worked with KNIME Server 4.10 will continue to work with KNIME Server 4.11 without restrictions.



To find out which version of KNIME Server you are currently running, you can check the [Administration pages](#) on the WebPortal.

## New Features

For a list that includes the new Analytics Platform 4.2 features see [here](#).

Highlighted new functionality is:

- Improved OAuth authentication ([Setup guide](#))
- Executor Groups ([what's new](#))
- Executor Reservation ([what's new](#))
- Autoscaling on AWS ([AWS Guide](#))
- Switch to Apache Tomcat (over TomEE) ([Release notes](#))

A detailed changelog for [KNIME Server 4.11](#) is also available.

## Switch to Apache Tomcat

In previous releases, the application server component of KNIME Server was based on Apache TomEE - the Java Enterprise Edition of Apache Tomcat. Now, in the new KNIME Server 4.11, TomEE is replaced by the standard Apache Tomcat.

In line with the switch to the standard Apache Tomcat, the use of the old EJB mountpoints to connect to KNIME Server is now discouraged in favor of the newer REST implementation. Migrating to a REST mountpoint has been made very simple. As soon as the user logs in with an existing EJB mountpoint, there is a prompt from which they can switch to REST with a single click. REST provides many benefits in comparison to EJB - particularly advantages in terms of performance and stability.

The Tomcat version used is 9.0.36. Note that for existing customers who are hesitant to switch to Tomcat, we still provide a KNIME Server installer based on Apache TomEE. This has been updated to the latest version, TomEE 8.0.3.

## Execution via Qpid

Previous releases of KNIME Server used RMI to establish a connection between an application server and KNIME Executor. RMI has now been replaced by an embedded message queue based on Apache Qpid. Rather than having direct communication between application Server and Executor, events such as requests for job execution are passed on via the message queue.

Qpid technology comes bundled with the KNIME Server installer, so no additional setup is necessary. All new KNIME Server installations are configured to use Qpid as default. In addition, the KNIME Server installer makes various adjustments to the Executor's `knime.ini` file to facilitate the connection to Qpid.

Note that Qpid only supports a single KNIME Executor running on the same host as the application server. In case you want to run multiple distributed KNIME Executors, it is still necessary to set up RabbitMQ. Unlike with previous releases the Executor is **not** automatically started together with the Server, but instead has to be started individually. The necessary steps are described in the [KNIME Server Installation Guide](#)

## Switch to REST mountpoints

Starting with the release of KNIME Server 4.11, the use of the old EJB mountpoints to connect to KNIME Server is now discouraged in favor of the newer REST implementation. In case of a Tomcat-based KNIME Server, this will be the only valid connection method. I.e., EJB is not supported anymore for KNIME Servers running on Apache Tomcat.

We have made migrating to a REST mountpoint very simple. Just log in with an existing EJB mountpoint and there will be a prompt from which you can switch to REST with a single click. REST provides many benefits in comparison to EJB - particularly advantages in terms of performance and stability.

After you switch to REST, you will notice some slight differences in behavior. Most notably, we do not show a popup dialog anymore when you start a workflow that uses either `Workflow Variables` or `Workflow Credentials`. These options have now been made accessible directly from the workflow execution dialog. To get there, right-click a workflow in the server repository → `Execute`. Then open the `Configuration options` tab. This allows you to enter `Workflow Variables` and `Workflow Credentials`.

In addition, the `Configuration options` tab also allows you to set values for all `Configuration nodes` inside a particular workflow that are located on the top-level of the workflow (i.e., that are not inside a component or metanode). This is available for all nodes with no incoming connection (**including** flow variables) included in the `Workflow Abstraction` → `Configuration`

category of the KNIME Analytics Platform node repository

## Local file system access by KNIME workflows

A growing number of KNIME nodes (see below) are being revised to use a new shared framework for file access. More nodes will follow over the next releases, so that eventually the file access of all KNIME nodes uses the shared framework.

When executing on KNIME Server, a preference controls whether those nodes may access the local file system of the KNIME Server Executor or not. With this release, local file system access is **disallowed** by default (previously it was allowed).

To **allow** local file system access (not recommended), you can add the following line to the customization profile used by your KNIME Server Executor(s):

```
/instance/org.knime.filehandling.core/allow_local_fs_access_on_server=true
```

This preference currently affects the following KNIME nodes: Excel Reader (XLS), Excel Writer (XLS), Excel Sheet Appender (XLS), Line Reader. In addition, this affects all nodes within the new File Handling (Labs) category. Any other KNIME nodes are not affected by this setting.

# Update

This document guides you through the steps that are needed to update an existing KNIME Server installation from version 4.10 to 4.11 or apply a bugfix for version 4.11. You will find a complete guide to installing KNIME Server in the [KNIME Server Installation Guide](#), and a complete description of all configuration options in the [KNIME Server Administration Guide](#). If you have any questions or need assistance with the update process, please contact your dedicated KNIME support specialist.

For the sake of readability, this documentation uses `<tomcat-folder>/` to refer to the installation directory of the server application. Apart from the directory name, the location will be the same on TomEE-based folders.



New installations of KNIME Server are based on Apache **Tomcat**, rather than Apache **TomEE** which was used in previous releases. It is *not* possible to change your installation from TomEE to Tomcat. Instead, if you plan to use Tomcat, please perform a fresh installation of KNIME Server. In addition, we continue to offer a TomEE based installer for the time being. The TomEE version for this has been updated to version 8.0.3 (from TomEE 7.0.5). If you want to update to the newest TomEE version, it is also necessary to perform a fresh installation of KNIME Server as upgrades are not supported. I.e., the remainder of this document assumes that you update your KNIME Server to version 4.11, while maintaining TomEE 7.0.5 as application server. KNIME Executors are not affected by these changes, and can be upgraded following the standard procedure.



Due to some updated libraries, the KNIME Server REST API documentation available at <https://<your-server>/knime/rest/doc/index.html> does not work anymore in installations based on TomEE 7.0.5. If you need this functionality, please install a fresh KNIME Server, which is based on TomEE 8.0.3 (or move directly to Tomcat). This does **not** affect the per-workflow Swagger pages (right-click in KNIME Explorer → Show API Definition), which continue to work on all TomEE versions.



In order to upgrade a TomEE-based KNIME Server, TomEE needs to be at least version 7.0.5. Older versions are not supported, and require a fresh installation.

## Prerequisites

## Server

- This guide assumes you already have either KNIME Server 4.10.x or KNIME Server 4.11.x running. If you wish to update from a previous version you must study the intermediate update guides to identify configuration changes that may apply, and you may wish to consider a fresh installation in order to update the underlying Tomcat application server.



A recent update of Java to version 8u272 will cause KNIME Server installations to no longer be able to connect to a secured LDAP authentication system. we recommend not updating the Java installation to version 8u272 on your KNIME Server. If you have already done this, we suggest you revert it. If you run into any issues or need further information please contact the KNIME support team at [support@knime.com](mailto:support@knime.com).

## Client & Executor

- KNIME Analytics Platform clients need at least KNIME ServerSpace 4.0 otherwise it will not be able to talk to the server.
- KNIME Server 4.11 requires at least KNIME Analytics Platform 4.2 as executor with the corresponding *KNIME Executor Connector* version 4.11 installed on the server side.
- New KNIME WebPortal features are available with any [supported web browser](#).

## Backup

Even though all the data on the server should be preserved during the update it is highly recommended to create a backup of all important data (see [KNIME Server Administration Guide](#) for backup information).

## Application server



### Backup existing configuration



Before performing an update, make a backup of `<tomcat-folder>/conf/Catalina/localhost/knime.xml`. The name of the file might be different if the `.war` file had a different name (e.g. `com.knime.enterprise.server.xml` or `ROOT.xml`).

Failure to backup this file will result in scheduled jobs failing to run since it contains the secret key that is used to encrypt the schedule.

Also make sure to create a backup of `<tomcat-folder>/conf/server.xml`.

1. Download the updated war file `war-4.11.x.y.war` from the [download-page](#). Make sure you use the **correct** file, depending on whether your KNIME Server is based on Tomcat or TomEE.
2. Stop KNIME Server.
3. Delete the existing folder `<tomcat-folder>/webapps/knime` (or similar if the `.war` file had a different name).
4. Copy the new `war-4.11.x.y.war` over the existing war file (usually `<tomcat-folder>/webapps/knime.war`). Please note that it needs to be the same file name as this is what is referred to as context in the application.
5. Check if the `knime.xml` file that you backed up before still exists. If not copy the backup to the previous location.
6. Copy the downloaded file `knime-tomcat.jar` to `<tomcat-folder>/lib`
7. Follow the steps below on updating the KNIME Server Executor.
8. Start Tomcat.

Note that it is **not** possible to run multiple KNIME Server instances in one Tomcat installation.

## KNIME Executor

### Installing a new KNIME Executor

KNIME Server 4.11 requires KNIME Analytics Platform 4.2 or later. Since an update from KNIME Analytics Platform 4.1 to 4.2 isn't possible you have to create a new installation of KNIME Analytics Platform 4.2 and install the `KNIME Executor connector` version 4.11 into it. The reason for this are an updated Eclipse version as well as an upgrade of the bundled JRE.

To install KNIME Analytics Platform 4.2 from scratch you will need to run it as the user that owns the Installation.

Please refer to the [KNIME Server Administration Guide](#) for more details about installing a KNIME Executor.



Due to a hotfix release, it is currently necessary to update the KNIME Executor right after performing the installation, as some important fixes are not in the release build. See below for how to perform an update.

You must update the KNIME Server Executor to at least version 4.2 and the KNIME Executor connector to version 4.11.

If possible, start the executor installation in graphical mode (using the correct installation user!). If you have internet access, go to *File* → *Update KNIME...* and it will suggest updating to the new version. Follow the steps in the wizard. If you don't have direct internet access, you must download the zipped update sites from the [commercial downloads page](#) (contact the KNIME support team if you don't have access to this page). Then register the ZIP files in *File* → *Preferences* → *Install/Update* → *Available Software Sites* and go to *File* → *Update KNIME...*

Under Linux, if you cannot start the graphical user interface, you can use the `update-executor.sh` script that is in the root of the executor installation.



In KNIME Server versions between 4.11.0 and 4.11.3, due to a bug, it is necessary to remove the lines referring to client preferences from the `knime.ini` file before running the update script. After the update, they can be added again. This issue is fixed starting with 4.11.4 bugfix release of KNIME Server.

This affects the following lines:

```
-profileLocation  
http://<server-address>/knime/rest/v4/profiles/contents  
-profileList  
<list of profiles>
```

Call the script on the command line and provide a list of update sites that contain the new versions of the installed extensions and all installed extension will be updated (given that an update is available):

```
./update-executor.sh https://update.knime.com/analytics-platform/4.2
```

If you get error messages when executing `update-executor.sh` about missing "installable units", make sure that you have provided all necessary update sites.

## knime.ini file

In case you want to use custom settings from your old KNIME Executor's `knime.ini` file, please copy only the lines following `-vmargs` to the new `knime.ini`. The only exception to this are the four lines related to Server Managed Customizations (`-profileLocation...`), in case those are set. The remaining lines above `-vmargs` contain paths to resources that have been changed in the new release, so they are not compatible.

## server.xml file

For fresh installations, please note that a `server.xml` file (`<tomcat-folder>/conf/server.xml`) from an older installation cannot be copied over due to some larger changes. Any custom changes applied to your existing `server.xml` need to be manually copied over to the new `server.xml`. For upgrades the existing `server.xml` continues to work, and does not need any adjustments.

## KNIME Server license

The KNIME Server license continues working with the new Server. If you haven't received a license file or if it is not working correctly, please contact KNIME support or your dedicated KNIME account manager.

## Enabling execution via Apache Qpid

KNIME Server 4.11 introduces an integrated message broker for communication between KNIME Server and KNIME Executor, based on Apache Qpid (<https://qpid.apache.org/>). This can be thought of as using an architecture that corresponds closely to distributed KNIME Executors, but runs on a single host, which is used by both KNIME Server and KNIME Executor.

Unlike distributed KNIME Executors, it is not necessary to install a separate message broker such as RabbitMQ. Instead, Apache Qpid is bundled as part of all KNIME Server installations. New installations of KNIME Server use Qpid by default. To switch your current installation to Qpid, changes are required in two locations:

## Application Server

Activate queue in `knime-server.config`. The file can be found in `<server-repository>/config/knime-server.config`. Set the parameter

```
com.knime.enterprise.executor.embedded-broker= to true
```

In addition, comment out the line `com.knime.server.executor.knime_exe=` by placing a `#` character at the start of the line.

## KNIME Executor

In the KNIME Executor installation directory, add the following line to the `knime.ini` file, anywhere after the `-vmargs` line:

```
-Dcom.knime.enterprise.executor.msgq=amqp://knime:20knime16@localhost/
```



Unlike the RMI-based execution, using the Qpid message broker requires to startup KNIME Server and KNIME Executor **separately**. For starting up KNIME Server, you can still use the `startup.sh/.bat` file located in `<tomcat-folder>/bin`. For starting the Executor, you can use `<executor directory>/start-executor.sh` (Linux) or `<executor directory>/start-executor.bat` (Windows)

In case the Executor startup script is not present, you can start the Executor from command line by running

```
./knime -nosplash -consolelog -application  
com.knime.enterprise.slave.KNIME_REMOTE_APPLICATION
```

For setting up the KNIME Server service, please follow the steps outlined in the [KNIME Server Installation Guide](#). Installing the Executor as a service follows the same procedure as described for distributed [KNIME Executors](#).

For increased security, we recommend to run both services by different users.

## Preferences file

Note that when switching from RMI to Qpid, the old `preferences.epf` file in `./workflow_repository/config` is **not** used anymore. In order to set preferences on the Executor (e.g. database drivers or Python configuration), please use a preference profile as described in the [KNIME Server Admin Guide](#).

## Server temp directory

Switching to Qpid also uses a different temp directory than RMI. On Linux, this defaults to `/tmp`, which might have size restrictions. In order to manually set a different temp directory, please add the following to the `knime.ini` file of the KNIME Executor, anywhere below the `-vmargs` line: `-Djava.io.tmpdir=/path/to/tmpdir`

## Qpid port

In some environments, it is necessary to explicitly open a port for connections to Qpid **on localhost** (even though Server and Executor are running on the same host). By default, the port is 5672. This can be changed in the `knime-server.config` file.

## Server host name in /hosts

By default, the host name of the machine is available in `/etc/hosts/`. If this is not the case, KNIME Server will not work using Qpid. This can be resolved by adding the server's host name to `/etc/hosts/`, e.g. `127.0.0.1 <hostname>`.

## Compressed responses

Due to a change in Tomcat responses sent by KNIME Server 4.11 and 4.12 are not compressed even though compression is configured in the `server.xml`. In order to enable compression again, you have to add the attribute `noCompressionStrongETag=false` to all `<Connector>` elements in your `server.xml`, e.g.

```
...
<Connector noCompressionStrongETag="false" compressibleMimeType="..." compression="on"/>
...
```

If you create a new server installation using the KNIME Server Installer for 4.11.6 this attribute will be added automatically.

# Troubleshooting

## All jobs are lost after updating

One important step during update process is the backup of the `knime.xml` file so that it can be copied back into the KNIME Server installation folder. The `knime.xml` file contains a secret key for encrypting the communication between the server and the installation folder. If this is not restored before starting the server, the server will not be able to load jobs and schedules previously created.

## Access to KNIME WebPortal version > 4.11 is not possible

### Access gives error 404

If you cannot access the URL of the KNIME WebPortal version > 4.11

`https://<server-address>/knime/webportal/`

and it fails with error 404, usually indicates that during update or installation process the Context Root used to define the KNIME WebPortal URL was left empty (`/`). This is not possible starting with the release of KNIME WebPortal version 4.11+ for which it is necessary to **always** specify a Context Root.

Please refer to the [KNIME Server mountpoint and Context Root](#) section of the KNIME Server Installation Guide.

### Access gives error 500

If you cannot access the URL of the KNIME WebPortal version > 4.11

`https://<server-address>/knime/webportal/`

and it fails with error 500, usually indicates that the update did not work as expected.

Please contact KNIME support team via [support@knime.com](mailto:support@knime.com) to get this fixed.

## Update of KNIME Executor via command line is not possible

This is a known bug with KNIME Server version 4.11.1, which is fixed with KNIME Server version 4.11.2

To solve the issue you need to follow these steps:

1. Create a copy of the file named `knime.ini-copy`
2. Remove the `-profileLocation` option from the `knime.ini` file
3. Update the KNIME Executor via command line
4. After a successful update, overwrite your `knime.ini` file with `knime.ini-copy`.

If this solution does not work, please contact KNIME support team via [support@knime.com](mailto:support@knime.com)

## Workflows deployed on the server cannot be executed

- If the following error message appears:

Unable to load workflow, it was created with a future version of KNIME

the KNIME Analytics Platform client with which you are connecting to the KNIME Server and with which the server was built needs to have a lower or equal version to the KNIME Executor. If this is not the case, please ask your KNIME Server Administrator to update the KNIME Server and/or KNIME Executor to the release version of the KNIME Analytics Platform client you are using locally.

- If a missing node is reported, instead, check if the node is already installed and if the version of the respective extension is the same in both the KNIME Analytics Platform client and the KNIME Executor.
- Finally, if your scripting (R or Python) snippets fail, it is possible that the respective packages are missing on KNIME Server. Please refer to the respective guides to install [Python](#) and [R](#) packages. Please also make sure the user under which you install those packages is the same user running the KNIME Executor.

## Connection to KNIME Executor hosts after switching to Qpid is not possible

- Make sure the hostname of the KNIME Server is mentioned in the `/etc/hosts` file
- Check that the following ports are accessible on `localhost`. They do not need (and in fact should not) to be accessible from other systems (usually this is the case).
  - With RMI: `com.knime.server.executor.start_port` (default 60100)
  - With QPid: `com.knime.enterprise.executor.embedded-broker.port` (default 5672)

- With RabbitMQ: For KNIME Server and for the KNIME Executor that is setup on a separate machine (default 5672)
- Starting with QPid, KNIME Executor needs to be started manually. Please follow the instructions in the [KNIME Server Installation Guide](#) to do so.
- It might be necessary to change the user running the service. Please follow the instructions in the [KNIME Server Installation Guide](#) to do so.

## Reading from my local file system after update to KNIME Server 4.11 is not possible

Starting with KNIME Analytics Platform version 4.2, which is the KNIME Executor version for the KNIME Server 4.11 we are, by default, not allowing the access to the local file system on the KNIME Server via the new File Util nodes. You can enable this again as described in [KNIME Server Admin Guide](#).

Please note that this only affects the XLS Reader, the Line Reader and all nodes which are part of the File Handling (Labs). All other nodes will continue to read local files with no need of further action.

## The authentication field is empty

Please update the `knime-tomcat.jar` as described in the [Application server update section](#). This must be done before restarting the KNIME Server.



# Changelog (KNIME Server 4.11)

## **KNIME Server 4.11.6** (released November 8, 2021)

### Bugfixes

- [SRV-3612] - Directory path traversal when requesting client profiles<sup>[1]</sup>
- [WEBP-876] - Cross-Site-Scripting vulnerability in old WebPortal login<sup>[2]</sup>
- [SRV-3522] - Time intervals of scheduled don't behave correctly in some cases
- [SRV-3501] - Admin username not case insensitive
- [SRV-3500] - Race condition in ObjectStore
- [SRV-3488] - Response compression does not work any more due to change in Tomcat
- [SRV-3481] - Error on loading swapped job yields unexpected job state
- [SRV-3375] - Server installer must use executor JVM when installing executor
- [SRV-3371] - Discarding a job after load timeout may lead to error

## **KNIME Server 4.11.5** (released March 4, 2021)

### Enhancement

- [SRV-3379] - Make swap timeout during executor shutdown configurable
- [SRV-3206] - Auto-forward to identity provider authentication page

### Bugfixes

- [SRV-3386] - User list in Admin Console not updated correctly
- [SRV-3360] - Parent job directories on executor aren't deleted on discard or swap
- [SRV-3359] - Remote Workflow Editor prevents jobs from being swapped
- [SRV-3352] - Too large configuration/input parameters may render server unusable for the current user
- [SRV-3338] - Swapped jobs may fail to get restored right after server restart
- [SRV-3334] - Swapped jobs cannot be found any more after server repository has been renamed/moved

- [WEBP-671] - Direct access to a workflow from unauthenticated session redirects to landing page when using OAuth

### **KNIME Server 4.11.4** (released December 11, 2020)

#### Enhancement

- [SRV-3247] - Option to hide folders without view permissions
- [SRV-3289] - Make creation of workflow summary configurable
- [SRV-3303] - Allow custom content in "Thanks for logging in" page

#### Bugfixes

- [SRV-3138] - Timeouts in remote workflow editor are too low
- [SRV-3167] - lastEditedOn in server meta information is never updated
- [SRV-3169] - Script install-executor-as-service.bat fails if path contains blanks
- [SRV-3215] - Race condition when updating job states in interactive execution
- [SRV-3227] - Timeouts while swapping a job don't mark the job as non-swappable
- [SRV-3229] - Executor group is not set in case server is restarted
- [SRV-3230] - Race condition between job swapping and status update
- [SRV-3260] - Cannot set configuration nodes via WebPortal when using OAuth
- [SRV-3269] - Maximum JWT lifetime not set if parameter cannot be parsed
- [SRV-3290] - Possible null pointer when OAuthAuthenticator tries to bring KAP to front
- [SRV-3296] - Workflow summary endpoint returns 500 when summary does not exist

### **KNIME Server 4.11.3** (released November 4, 2020)

#### Enhancement

- [SRV-3123] - Rabbitmq HA support
- [SRV-3200] - CSRF protection should allow null Origin

## Bugfixes

- [SRV-3149] - Server login Credentials (knime.system.default) get lost after job swapping
- [SRV-3169] - Script install-executor-as-service.bat fails if path contains blanks
- [SRV-3171] - update-executor.sh corrupts installation if there are no updates
- [SRV-3176] - Job swapping and saving as workflow doesn't work with KNIME Server Small and queue-based executor
- [SRV-3178] - Requests are not properly forwarded to social workflows
- [SRV-3191] - String literals in reservation rules or executor group rules break the executor endpoint
- [SRV-3192] - Server configuration map is not updated after adjusting settings
- [SRV-3193] - JobLifecycleHandler doesn't handle all jobs in case an exception is thrown
- [SRV-3194] - Empty default cpu and ram requirements yield error
- [SRV-3202] - Executor service installer adds TomEE instead of Tomcat9 as dependency
- [SRV-3208] - Some operations in distributed executors don't work with default https certificate
- [SRV-3226] - Renaming cannot overwrite workflow in REST mountpoints
- [WEBP-524] - JavaScript views are not working in legacy Edge
- [WEBP-562] - Link to current admin guide from WebPortal footer
- [WEBP-573] - Re-executing wizard page in a loop causes webportal to display wrong page

**KNIME Server 4.11.2** (released September 28, 2020)

## Enhancement

- [SRV-3153] - Check during server startup if a tomee.war is used in a Tomcat server (and vice versa)
- [SRV-3154] - Update COMMUNITY mount point to use OAuth

## Bugfixes

- [SRV-3091] - Social Workflow Repository not reachable anymore
- [SRV-3135] - Mail session is not forwarded to server properly

- [SRV-3136] - Cannot update the executor from command line due to -profileLocation
- [SRV-3148] - Authenticator may throw NullPointerException if token verification fails
- [WEBP-530] - Nuxt routing depends on final '/'
- [WEBP-536] - File upload: old webportal displays file location with object store path
- [WEBP-541] - Workflows with execute-permission only can't be executed

## **KNIME Server 4.11.1** (released August 26, 2020)

### Enhancement

- [SRV-2952] - Propagate JWT Parsing Errors to the log
- [SRV-2979] - Suppress warnings about missing metainformation for simple files during workflow group upload
- [SRV-3001] - Save workflow summary together with the job
- [SRV-3064] - Improve Explorer performance for many jobs
- [SRV-3100] - Allow knime.system.default to be used in Configuration Options
- [SRV-3110] - Increase maximum number of in-memory jobs in local queue-based executor
- [WEBP-70] - Allow passing variables for config nodes via browser URL
- [WEBP-138] - Add option to deactivate old Webportal
- [WEBP-422] - Interactive execution endpoint: Allow configurations to be provided as string-key-value pairs instead of json-objects
- [WEBP-437] - Improve behaviour of "Connection lost" message
- [WEBP-439] - Add keyboard navigation and focus style for expand icons of messages

### Bugfixes

- [SRV-2869] - Server Executor dialog does not scale
- [SRV-3035] - "Reset workflow" gets checked when I select a workflow group in "deploy to server"
- [SRV-3039] - OIDC: nullpointer in authenticator
- [SRV-3054] - No different font for disabled schedules visible via REST connection to the server

- [SRV-3069] - Potential deadlock when modifying scheduled job on old workflows
- [SRV-3078] - OAuth: admin rights missing in Analytics Platform
- [SRV-3088] - OpenAPI index page not loaded properly
- [SRV-3095] - Installer does not contain the files to start KNIME Server as service on Windows
- [SRV-3097] - Repository items named 'services' are not accessible any more
- [SRV-3113] - Authentication Tokens of jobs lose their validity after server restart
- [SRV-3117] - Reading files from the server repository randomly fails with 403
- [SRV-3126] - Credentials Configuration isn't filled with Server Login
- [SRV-3130] - Embedded user database from pre-4.11 installations is not readable any more
- [WEBP-298] - Unwanted default scrollbar of page content on small screens
- [WEBP-302] - Cursor: pointer should be used consistently on clickable things
- [WEBP-314] - WebPortal button-footer takes up a lot of the available space when zoomed in
- [WEBP-333] - After clicking "show more" in the WebPortal job list, the focus should not reset to the top
- [WEBP-355] - Error page message contains unsupported characters
- [WEBP-364] - Unnecessary scroll bar appears when window is resized smaller
- [WEBP-365] - Credential Widget not working with 'Use server account information'
- [WEBP-367] - Empty repositories should be shown in the WebPortal
- [WEBP-384] - No error message when job can't be opened
- [WEBP-395] - Error Message: undefined
- [WEBP-401] - Labels are cut off
- [WEBP-408] - Set the percent of job execution to 1% as soon as the job is started
- [WEBP-427] - Breadcrumb text gets cut off
- [WEBP-433] - Filter out HTML responses from notification body
- [WEBP-440] - Vertical text cursor is not centered
- [WEBP-445] - Report url paramters inconsistent behavior
- [WEBP-453] - File up and download can use wrong node ids for generating URLs
- [WEBP-457] - URL parameter for email notification wrong

- [WEBP-458] - URL parameter for report formats should be all lowercased
- [WEBP-460] - Tooltip on Progress bar can be negative
- [WEBP-473] - File Upload should not use colons in file names
- [WEBP-495] - KnimePageBuilderAPI is not created in some circumstances
- [WEBP-496] - File uploaded via file upload widget fails to be read by the executor due to a 401 error (auth issue)
- [WEBP-498] - Workflow with `knime.system.default` cannot be loaded
- [WEBP-500] - Race condition if wizard page is in a loop
- [WEBP-503] - New style widget in single view should not load any css
- [WEBP-504] - WebPortal job cannot be discarded when session is destroyed
- [WEBP-505] - Interactive JS Views show error when executed in a loop

## **KNIME Server 4.11.0** (released July 13, 2020)

### Enhancement

- [SRV-2033] - Dialogs of DB nodes not available in remote workflow editor
- [SRV-2154] - Permissions for scheduled jobs in REST interface
- [SRV-2155] - Permissions for scheduled jobs in KNIME Explorer
- [SRV-2534] - Allow to reserve executors for exclusive use
- [SRV-2562] - Improve message on forbidden symbols in mountID in server installer
- [SRV-2580] - Allow re-connecting to existing jobs after server restart
- [SRV-2600] - Add max core setting to preferences.epf.template
- [SRV-2639] - Provide versions of server components in REST interface
- [SRV-2696] - Enable dynamic port configuration in remote workflow editor
- [SRV-2712] - Executor should retry connections to message queue
- [SRV-2733] - Port for embedded message queue should be configurable
- [SRV-2798] - [OAuth] Webportal landing page when using OIDC
- [SRV-2807] - Improve job logging
- [SRV-2820] - Dialog option to keep or change history when moving/copying workflows
- [SRV-2821] - Add possibility to map JWT claims to groups
- [SRV-2823] - Reuse OAuth Configuration From AuthenticationValve in KNIME Server

- [SRV-2824] - Automatic OIDC endpoint discovery
- [SRV-2830] - Define multiple queues in server config
- [SRV-2871] - Prevent loss of OIDC configuration when war is updated
- [SRV-2904] - Remove Glassfish support from KNIME Server Client
- [SRV-2920] - Add option to force-enable "Create Snapshot"
- [SRV-2921] - Add option to force-enable "Reset Workflow before upload"
- [SRV-2922] - Change default executor starting port
- [SRV-2926] - Installer should set path to embedded queue in executor knime.ini
- [SRV-2927] - Add new template for server managed customizations specific to executors
- [SRV-2928] - Remove preferences.epf.template from installer
- [SRV-2930] - Fix behavior of Use REST option
- [SRV-2932] - Show warning when using EJB mountpoints
- [SRV-2938] - Extract user and group information for executor reservation
- [SRV-2940] - Executor using embedded message queue should get as many core tokens as available
- [SRV-2948] - Make table view chunk size editable and use smaller default value
- [SRV-2958] - Do not send emails during Remote Job Edits
- [SRV-2962] - 'Workflow summary' endpoint for jobs
- [SRV-2963] - Default.epf template should use REST mountpoint
- [SRV-2971] - New REST endpoint with executor information
- [SRV-2977] - Add job IDs to all job related messages
- [SRV-2982] - Executor should have a start script
- [SRV-2985] - Server client should check for EJB support
- [SRV-2988] - Improve UI of EJB warning dialog
- [SRV-3002] - Support String claim as group-mapping-claim
- [SRV-3013] - Allow force-reset of jobs before saving as workflow
- [SRV-3015] - Update KNIME logo on OIDC login page
- [SRV-3026] - Improve error message if no queue can be found due to group restrictions
- [WEBP-454] - New WebPortal with improved layout and design

## Bugfixes

- [SRV-2352] - Improve error message if unexpected logout occurs
- [SRV-2492] - IPv6 addresses are not correctly handled in canonical host name autodetection
- [SRV-2718] - Closing KNIME OAuth Pop-Up (ESC Key) Will Block Port Used For Redirect
- [SRV-2849] - Unexpected Basic Auth Pop-Up When "Opening API Definition" From the AP in the Browser Without an Authenticated Session
- [SRV-2862] - Subnode-execution mode once set in server get's overwritten with every job update
- [SRV-2874] - NullPointerException in AP when connecting to server stored as OAuth with OAuth disabled
- [SRV-2883] - OAuth redirect page doesn't show error
- [SRV-2884] - Edit Mount Point Dialog does not remember Authentication Type
- [SRV-2890] - Mount Point Dialog resizes when large error is displayed
- [SRV-2892] - Wrong error message from executor when workflow cannot be loaded
- [SRV-2899] - NullPointerException exception when trying to open configuration window of google updater on a remote job view
- [SRV-2908] - Remote Job View does not refresh after an Executor restart
- [SRV-2934] - Wrong error message when loading workflow failed in executor
- [SRV-2941] - Email notification dialog in Call Workflow action advanced options not displayed correctly
- [SRV-2943] - server\_logs.zip sometimes contains folders with incomplete executor ID
- [SRV-2967] - Overwriting workflow group via REST removes existing schedules
- [SRV-2990] - Lazily loaded table rows are not updated in port table view (job view)
- [SRV-3025] - Account settings of KNIME server are not applied on runtime
- [SRV-3032] - Workflow pinning/reservation rules dont accept the @ character
- [SRV-3034] - Failure to read updated server config prevents further updates
- [SRV-3044] - Force reset workflow is ignored on temporary copies of workflows
- [SRV-3051] - Unable to enter username in "Edit Mount Point" dialog
- [SRV-3052] - Server sends multiple Status Emails for loops in workflows
- [SRV-3060] - OAuth: NullPointerException when trying to refresh the access token



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