



ONE – Workshop

01- Generic Server Configuration

Prepared for:	v15.4
Prepared by:	Ekaterina Fridman, Ataccama
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Introduction

This workshop will introduce you to the Ataccama Admin Center, commonly known as the ONE Runtime Server. You'll explore the creation of custom runtime and server configuration files, and understand how to incorporate workflow and scheduler components into the Admin Center.

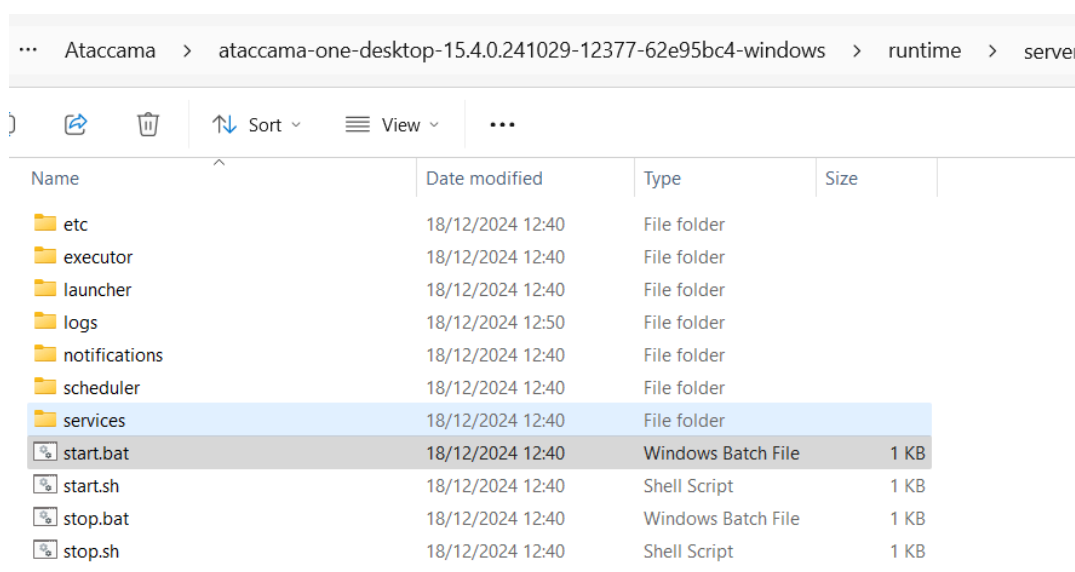
In order to do this workshop, you require the `Git_Collaboration_Training.zip` file which is provided to you as part of your training resources package.

Tasks

1. Starting and Stopping the Server

1.1. Start the Server

- › To start the ONE Runtime Server with the default configuration default.serverConfig launch `start.bat` from `<build folder>\runtime\server`



- › Wait for the server start message to appear in the command prompt window

```
[INFO] com.ataccama.dqc.commons.logging.appenders.51f4jLogAppender messageId: Server startup complete.
```

- › Verify the Server is running by visiting: <http://localhost:8888/>

localhost:8888/console/applications/ Finish update

ataccama | Admin Center Log out

Info

Welcome

Licenses

Resources

Resource Info

Threads

Java Properties

Database Connections

Web Statistics

Server Health Status

Log History

Path Variables

Shared Data

Model Pool Statistics

Server

Applications

Applications

No running applications

There are no running applications on the server

[Reload services](#)

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1.2. Stop the Server

- › To stop the server run stop.bat.

ataccama_one_desktop_15.1 > runtime > server >

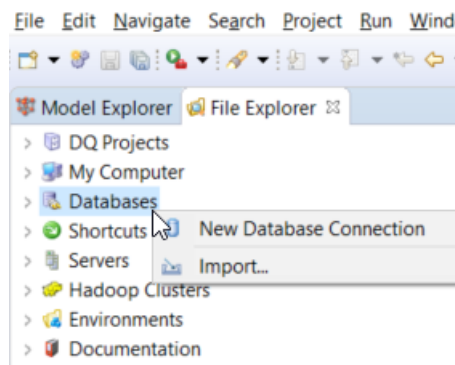
Sort View ***

Name	Date modified	Type	Size
etc	4/04/2024 2:50 PM	File folder	
executor	4/04/2024 2:50 PM	File folder	
launcher	4/04/2024 2:50 PM	File folder	
logs	11/04/2024 2:54 PM	File folder	
notifications	4/04/2024 2:50 PM	File folder	
scheduler	4/04/2024 2:50 PM	File folder	
services	4/04/2024 2:50 PM	File folder	
start.bat	4/04/2024 2:50 PM	Windows Batch File	1 KB
start.sh	4/04/2024 2:50 PM	SH File	1 KB
stop.bat	4/04/2024 2:50 PM	Windows Batch File	1 KB
stop.sh	4/04/2024 2:50 PM	SH File	1 KB

2. Add connection to the database

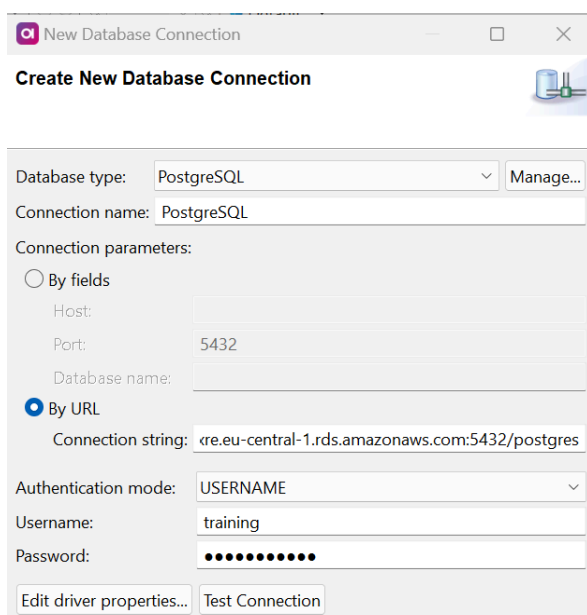
This section allows you to create a connection to a database and access it from the ONE Desktop.

- › Go to your ONE Desktop, select the File Explorer tab, and scroll down to the Databases section.
- › Right-click the *Databases* label and choose 'New Database Connection':



A new window will appear, titled Create New Database Connection.

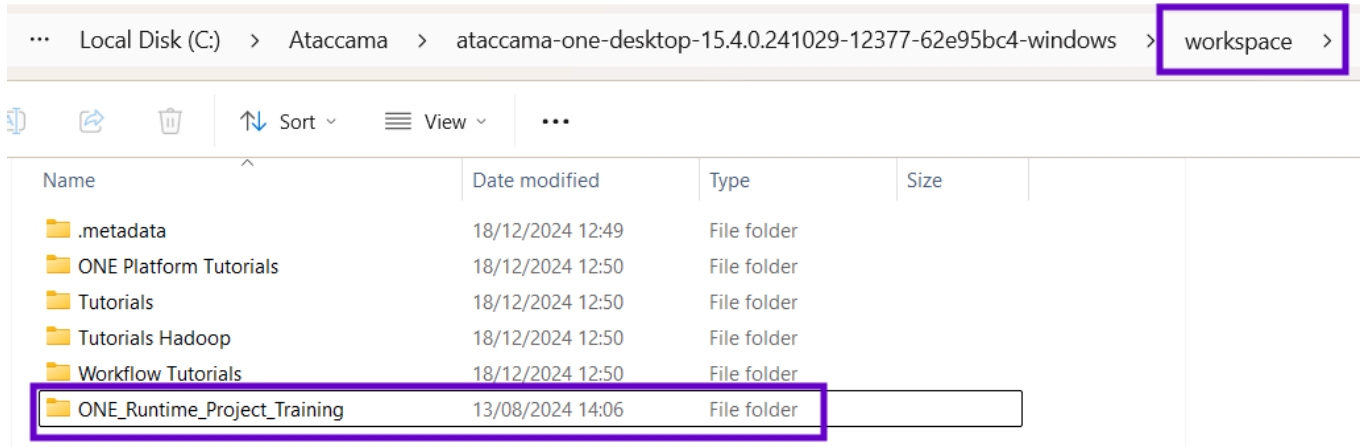
- › Select connection parameters By URL and fill in the following details:
- › **Name:** *postgres*
- › **JDBC:** *jdbc:postgresql://db-training.czhmef985xre.eu-central-1.rds.amazonaws.com:5432/postgres*
- › **Credentials name:** *training*
- › **Username:** *training*
- › **Password:** *AtaccamaONE*

A screenshot of the 'New Database Connection' dialog box. The title bar says 'New Database Connection'. Below the title bar is a 'Create New Database Connection' button and a database icon. The dialog is divided into sections. 'Database type' is set to 'PostgreSQL' with a 'Manage...' button. 'Connection name' is 'PostgreSQL'. Under 'Connection parameters', 'By URL' is selected. The 'Connection string' is 're.eu-central-1.rds.amazonaws.com:5432/postgres'. 'Authentication mode' is 'USERNAME'. 'Username' is 'training'. 'Password' is masked with dots. At the bottom are 'Edit driver properties...' and 'Test Connection' buttons.

- › Before you save the connection, it is a good idea to click the 'Test Connection' button to see if it works properly.
- › Click the Finish button to confirm your settings and close the DB configuration window.

3. Import a project (Copy to workspace method)

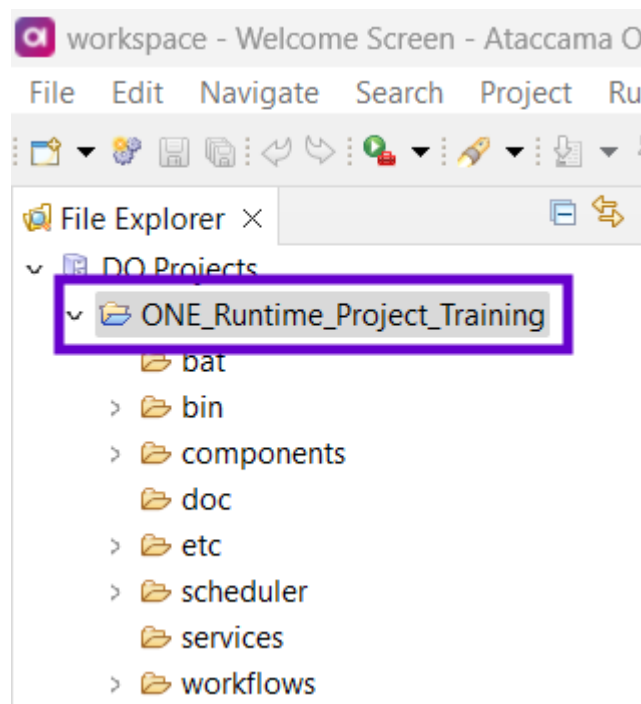
- › Download the prepared project ONE_Runtime_Project_Training.zip from your resources.
- › Extract to the <build folder>\workspace folder:



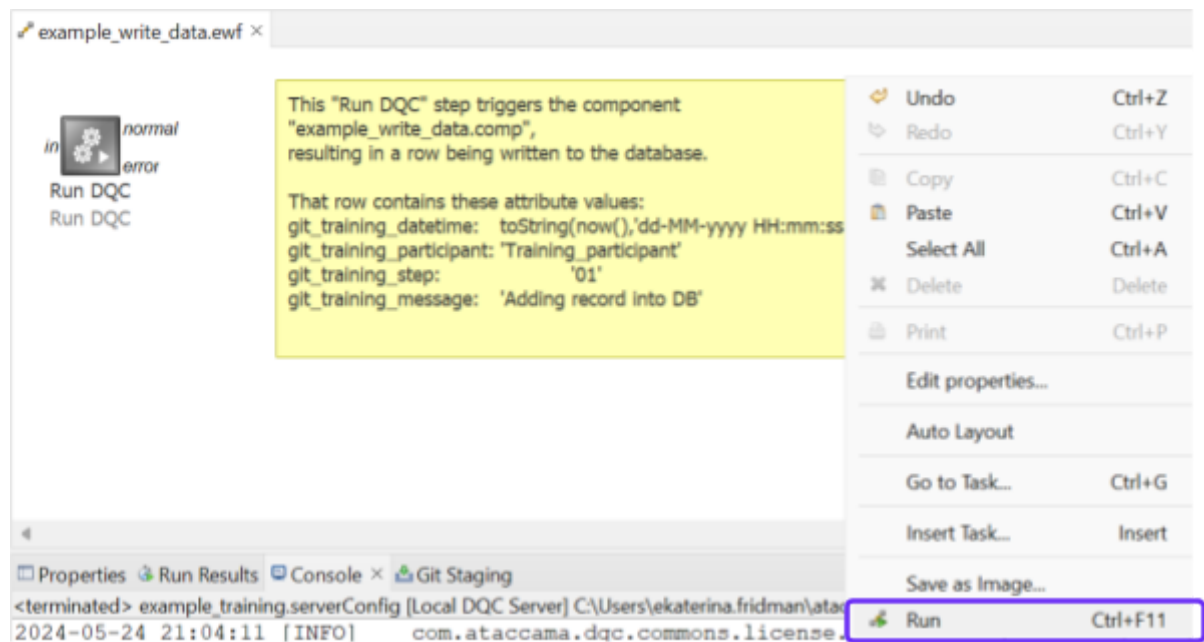
Now let's make this newly imported project visible in the ONE Desktop.

- › Go back to the Ataccama ONE Desktop Application
- › Right click on DQ Projects
- › Select the Refresh option.

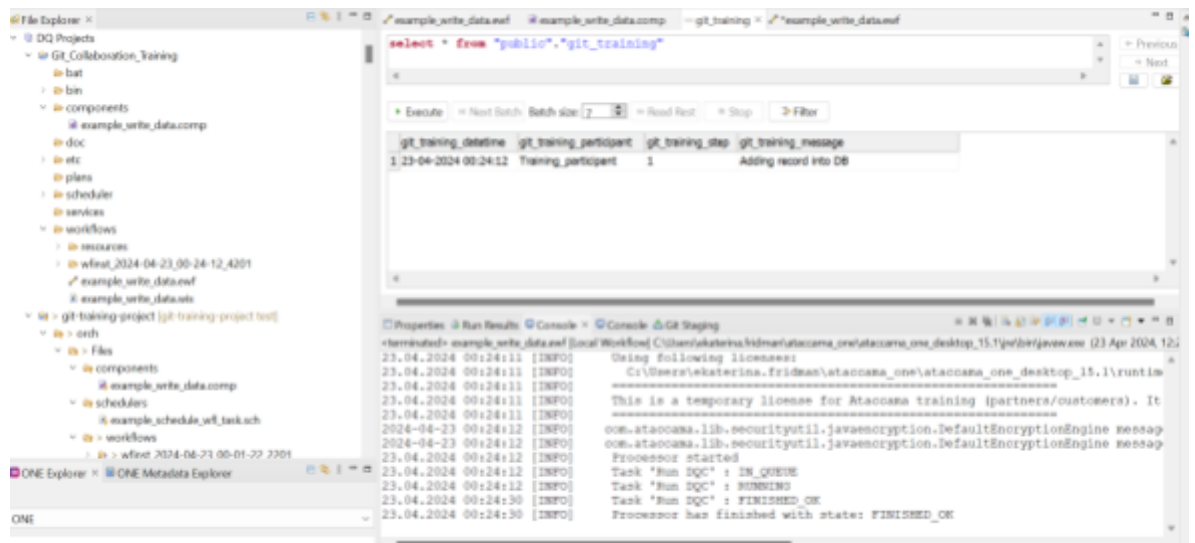
The structure and list of available projects will be updated. You should now see a project called ONE_Runtime_Project_Training in your list of DQ Projects:



- › Navigate to the workflow folder, open example_write_data.ewf and run that Workflow (Press CTRL+F11 or right-click on the canvas and choose Run).

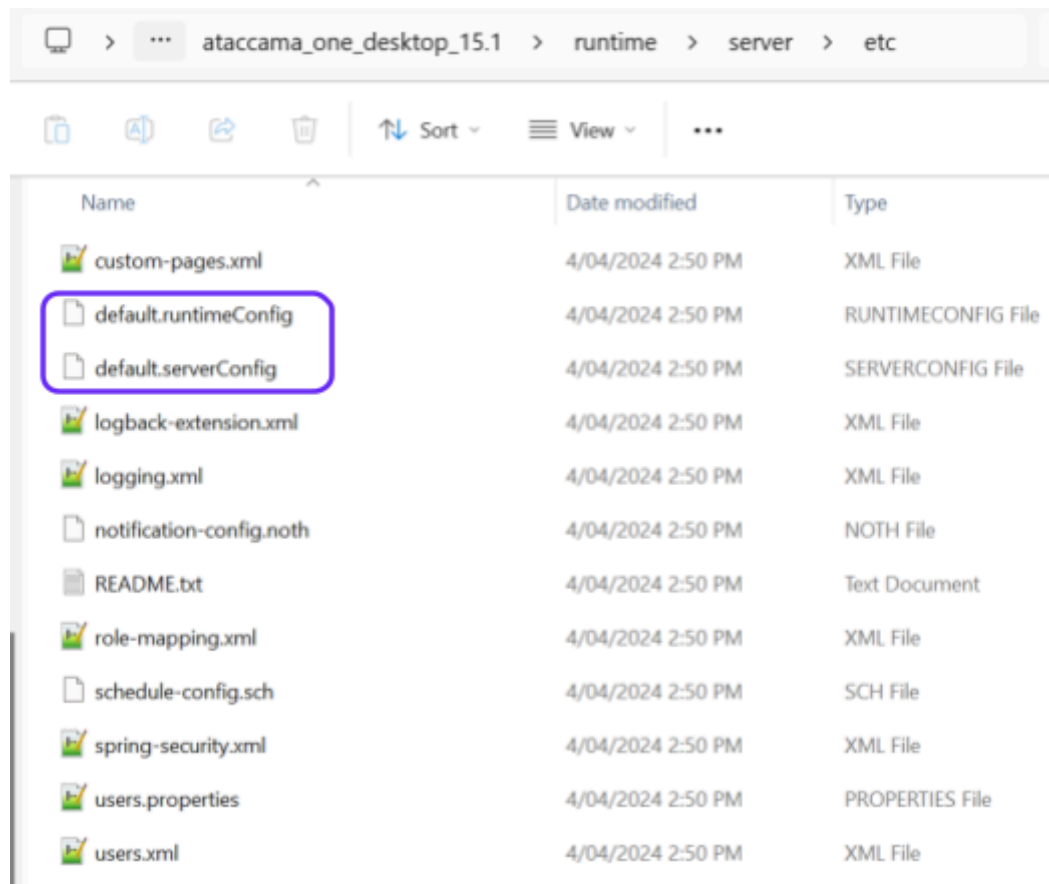


- › Check the result in the DB.



4. Building a set of serverConfig and runtimeConfig

- › The Ataccama Admin Centre comes with default.serverConfig and default.runtimeConfig files. All of the files can be found in the C:\<build folder>\runtime\server\etc folder.



4.1. Create new RuntimeConfig file

The RuntimeConfig file houses connections between the Admin Center and other services. It includes various potential connections, such as connections to databases and their respective database drivers, connections to other applications or servers (e.g., Ataccama ONE applications, SMTP server, S3 bucket), and definitions of file system folder shortcuts. These connections are utilized in .ewf workflows, .comp components, or .plan plan files.

- › Right click on the etc folder from the One Desktop and select New>Runtime Configuration. Name it as <prefix_training>.runtimeConfig

Create New Runtime Configuration File

Enter container and name

Container: workspace://Git_Collaboration_Training/etc Browse...

Name: example_training.runtimeConfig

Environment: Default

? Finish Cancel

- › Open your RuntimeConfig file, find connection to the database in and close that dialog.

Node	Content
xml	version="1.0" encoding="UTF-8"
runtimeconfig	
contributedConfigs	
dataSources	
dataSource	
password	crypted:AES:TIHpjpt6aqe1BuWLCgB0a8kLcOHjiYr35WGV6BedMk=
name	PostgreSQL
driverName	PostgreSQL
user	training
url	jdbc:postgresql://db-training.czrme985xre.eu-central-1.rds.amazonaws.com:5432/postgres
properties	
propertiesEncrypted	
propertiesFile	
propertiesFileEncrypted	
databaseDrivers	
databaseDriver	

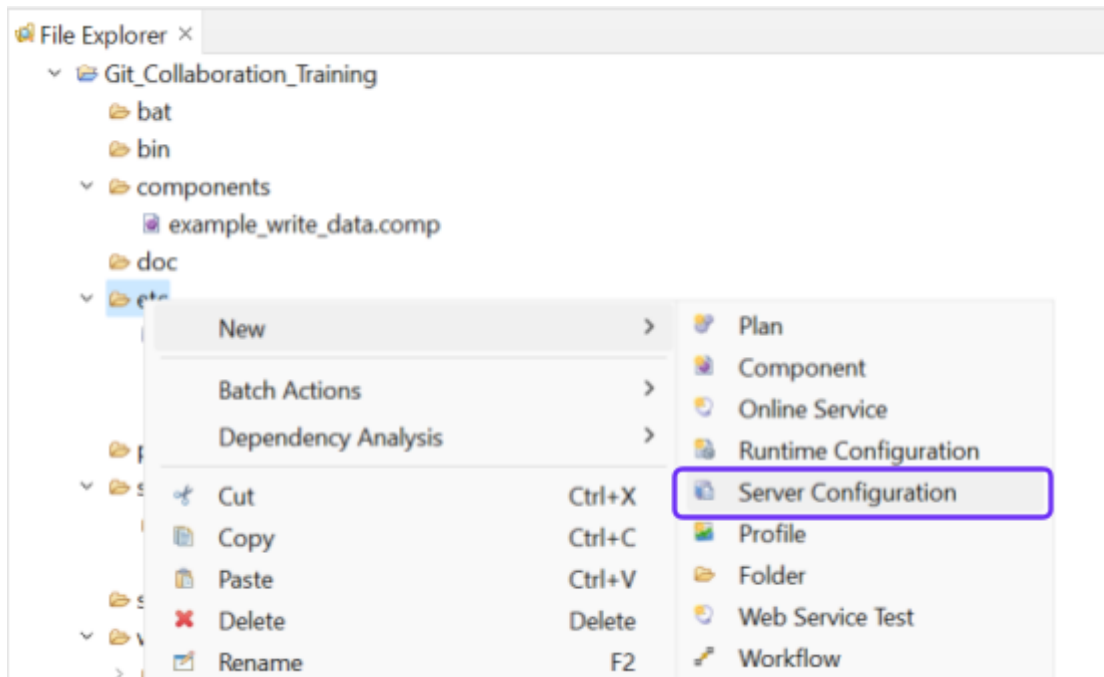
4.2. Create a new ServerConfig including workflow component

The serverConfig file is where users specify which components the Admin Center should start up. Each component requires specific properties to be defined. The most common components include:

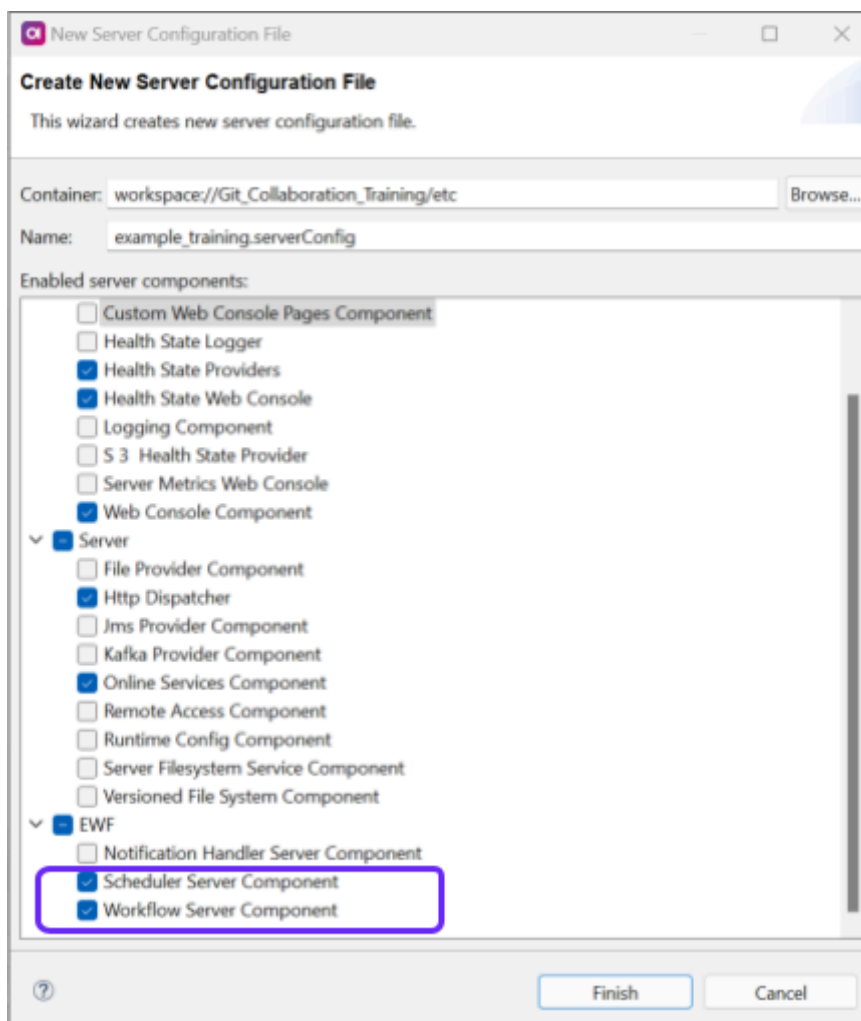
- Http dispatcher: a web page component facilitating user interaction with the Admin Center via HTTP.
- Online service: a component hosting endpoints to accept API calls, which can be connected to .plan or .comp files for operations such as data reading, writing, or validation against predefined rules.
- Workflow: a component enabling the execution of workflows.
- Scheduler: a component facilitating the execution of schedulers.

In order to create server configuration, do the following:

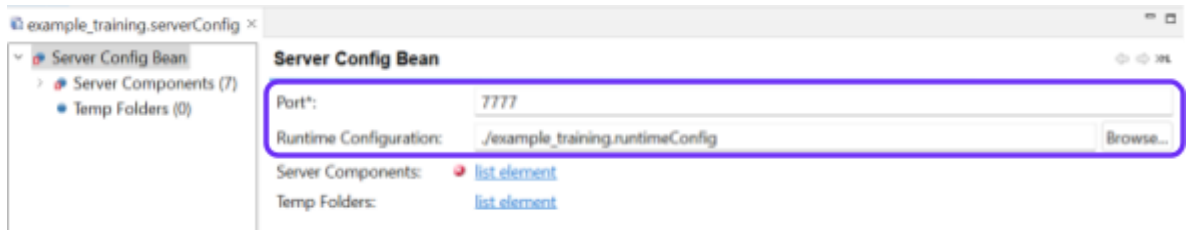
- Right click on the etc folder and select New>Server Configuration. Name it as <prefix_training>.serverConfig.



- Activate Workflow and Scheduler Server components.

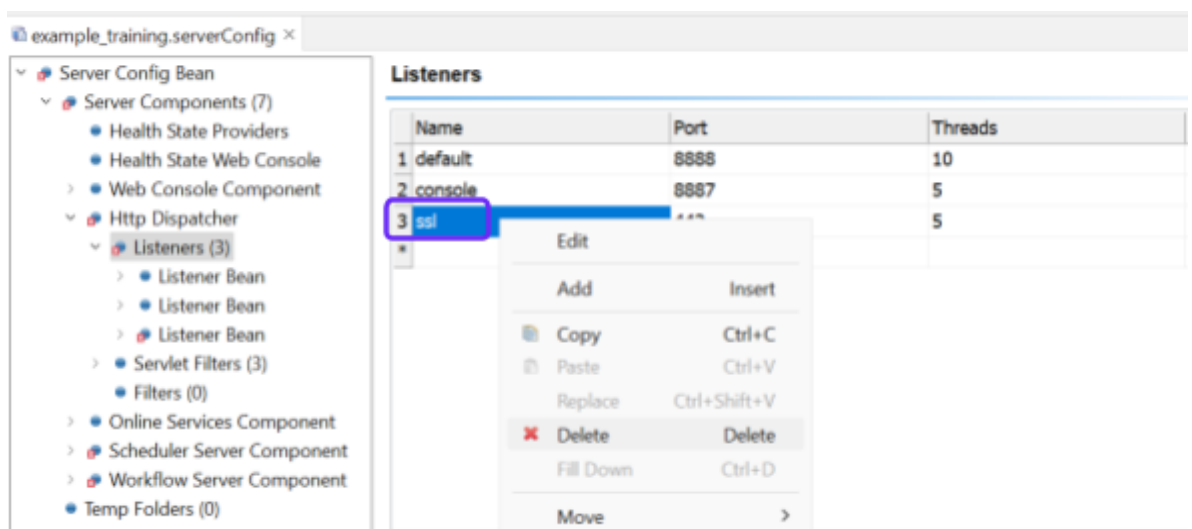


- › Browse to your nearly created RuntimeServer configuration.



At the top of the file you can see that the internal port for starting the runtime server is 7777, next is the runtimeConfig reference. This means at runtime, the runtime configuration will be used in conjunction with this serverConfig file

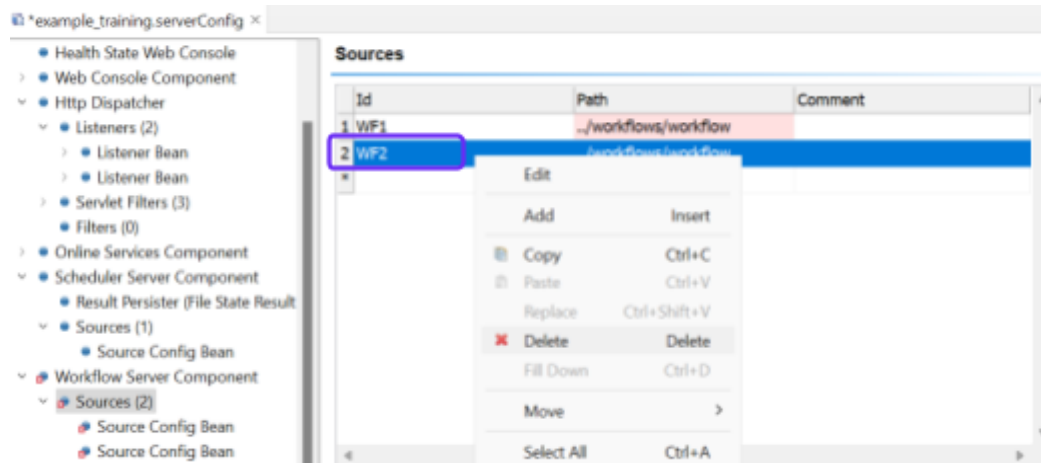
- › Delete the ssl section as we do not need it.



- › Set path for Scheduler folders.



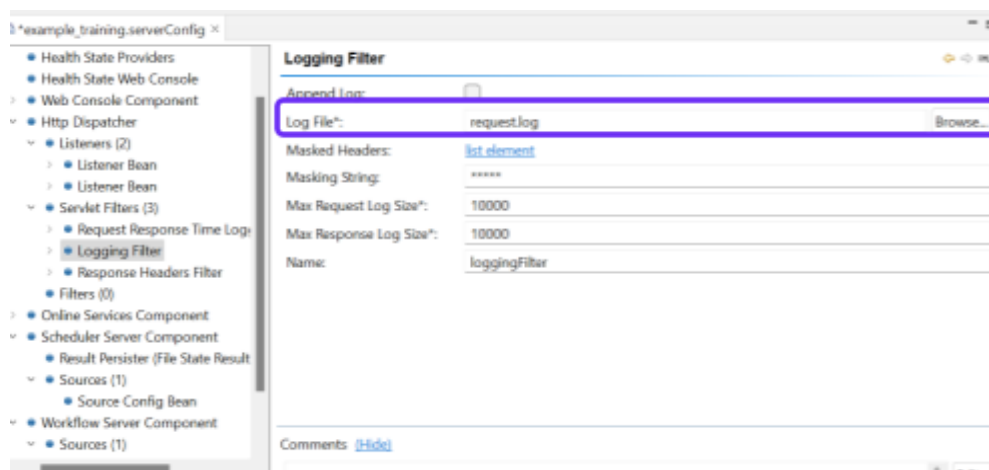
- › Delete second Workflow source.



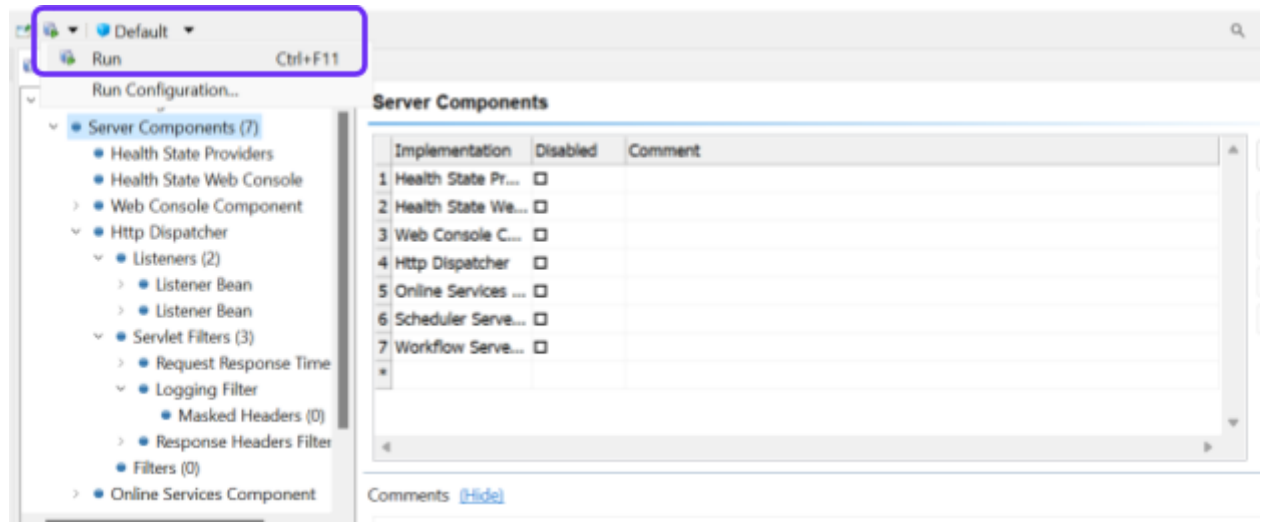
- › Set path for one Workflow Server component.



- › Change the path for the log file.



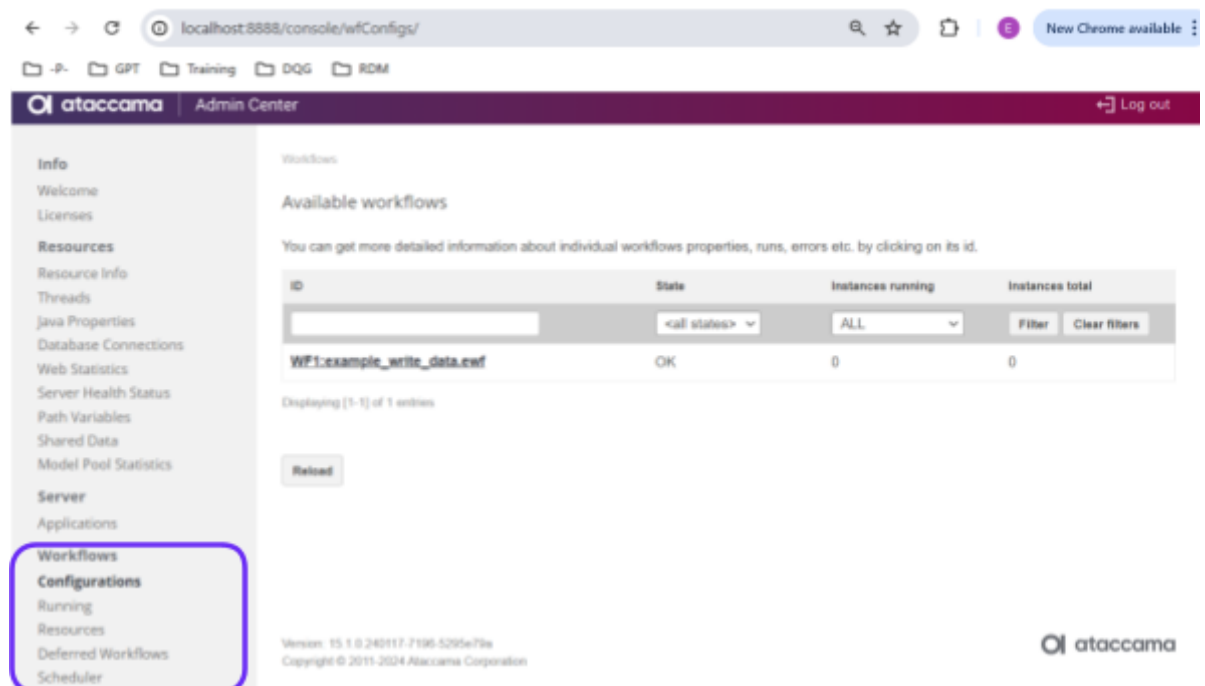
- › After the serverconfig file is created Run server with custom ServerConfiguration



- › Wait for the server start message to appear in the console.



- › Verify the Server is running by visiting: <http://localhost:8888/>.



- › Notice the difference in the admin center: additional sections related to Workflows and Schedule have appeared.

Conclusion

You have come to the end of the first workshop!

You went through essential tasks of starting and stopping the server, importing projects, and adding connections to databases. You gained hands-on experience in building custom runtime and server configuration files, including the incorporation of workflow and scheduler components into the Admin Center.