DIAMAS

Developing Institutional Open Access Publishing Models to Advance Scholarly Communication

# Deployment Document Self-Assessment Tool

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# Document overview

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| Version | Created/Modified | Comments |
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| 0.1 | Submitted version | |

DISCLAIMER

*The project has received funding from the European Union's Horizon* -WIDERA-2021-ERA-01 *research and innovation programme.*

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# Table of Content

# Introduction

This document provides a detailed guide for the configuration and deployment of essential components for the operation of the DIAMAS Self-Assessment Tool.

The first section focuses on database (DB) configuration and JAR file implementation, covering everything from database creation to credential editing and migration between different environments. The second section addresses the deployment of the front-end, detailing the file transfer process, server configuration, and change management.

This manual is designed to ensure effective and efficient deployment, providing clear and concise steps tailored to different environments such as PRE and PRO.

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# BACKEND

## 1 Database Configuration (In case it doesn't exist)

• MySQL Login: Use an account with permissions to create databases. The username will be "herramientaevaluador," and the password will be the same across all environments to facilitate portability.
• Access command: `mysql -u root -p`

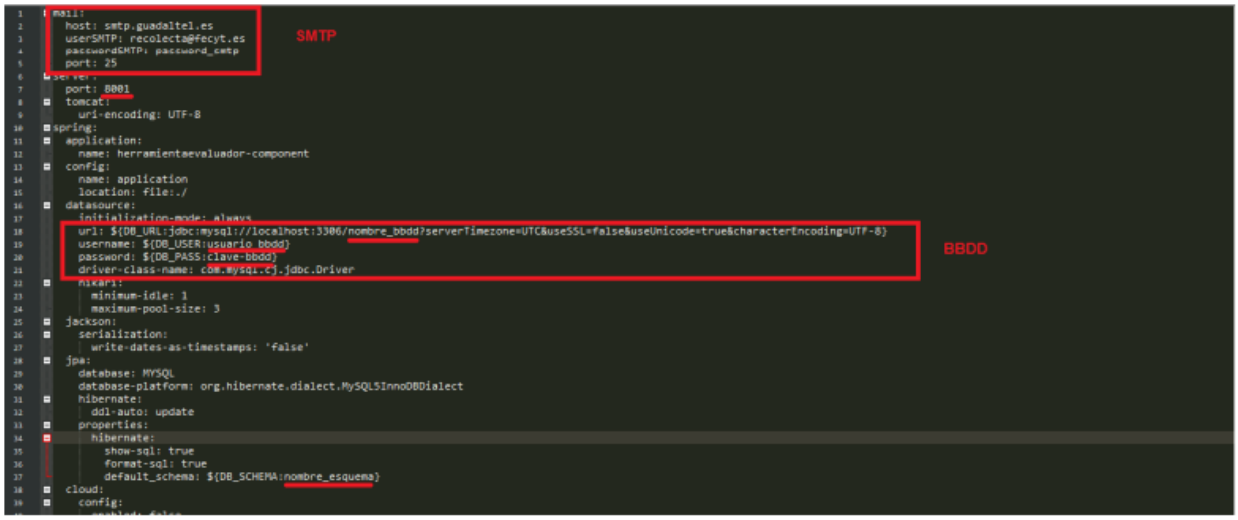
• Database Creation: If it doesn't exist, create the database "revistas" using the command `CREATE DATABASE revistas;` The encoding used is utf8mb4_general_ci. Initial record import is not required as the application performs initial inserts for basic functionality, and users are automatically added from Dnet.

## 2 JAR File Implementation

### 2.1. Editing Database Credentials

Before anything else, open the revistas-component-0.0.1.jar file and in \BOOT-INF\classes\bootstrap.yml, verify the SMTP and BBBDD credentials. You can open the jar using WinRAR on Windows and access its folders.

- Modification of Credentials and Configuration:
- Within the bootstrap.yml file, you can modify the following parameters as needed:
- Database: Change the name of the database.
- Username and Password: Update the database user and password credentials.
- Listening Port: Adjust the listening port, usually located at the top of the file. If 8001 is already being used by another application, change it in the bootstrap.yml file.
- Adjust the default database schema name.

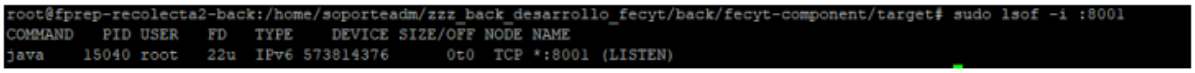



## 2.2. Additional Configuration in the Configuration File

SMTP Credentials Configuration:

- In the same section of the bootstrap.yml file you were editing, it is important to also configure the SMTP credentials.
- Locate the lines containing userSMTP and passwordSMTP.
- Enter the credentials of the email that will be used to send emails. Make sure to input this information without quotes.
- It is necessary to restart the execution of the JAR for the changes to take effect.

**NOTE: Before making any changes, it is recommended to kill the process and relaunch it using: bashCopy code nohup java -jar your_application.jar > output.log 2> error.log &**




**This command will ensure that the application continues running even after you log out of the terminal.**

## 2.3. Deployment

- Transfer of the JAR File to the Remote Server:
  - Command: scp "localPathJar" user@IP:targetPath.
  - The system will prompt for the user's password to complete the transfer.
- Transfer to the Back-End:

    - Command: scp "revistas-component-0.0.1.jar"
- Configuration on the Server:
    - Copy the file: cp /home/soltel/revistas-component-0.0.1.jar /opt/evaldiamas/zzz_back_diamas_fecyt/back/fecyt-component/target
    - Permission adjustments: chown -R soporteadm:soporteadm ./target
- Running the JAR:
    - Check/install Java if necessary: sudo yum install java
    - Background execution: nohup java -jar revistas-component-0.0.1 & or for log recording: nohup java -jar revistas-component-0.0.1.jar > output.log 2> error.log &
    - Verification of execution: If the service is not active after a minute, check with netstat -tuln | grep 8001 (replace 8001 with the used port if different).

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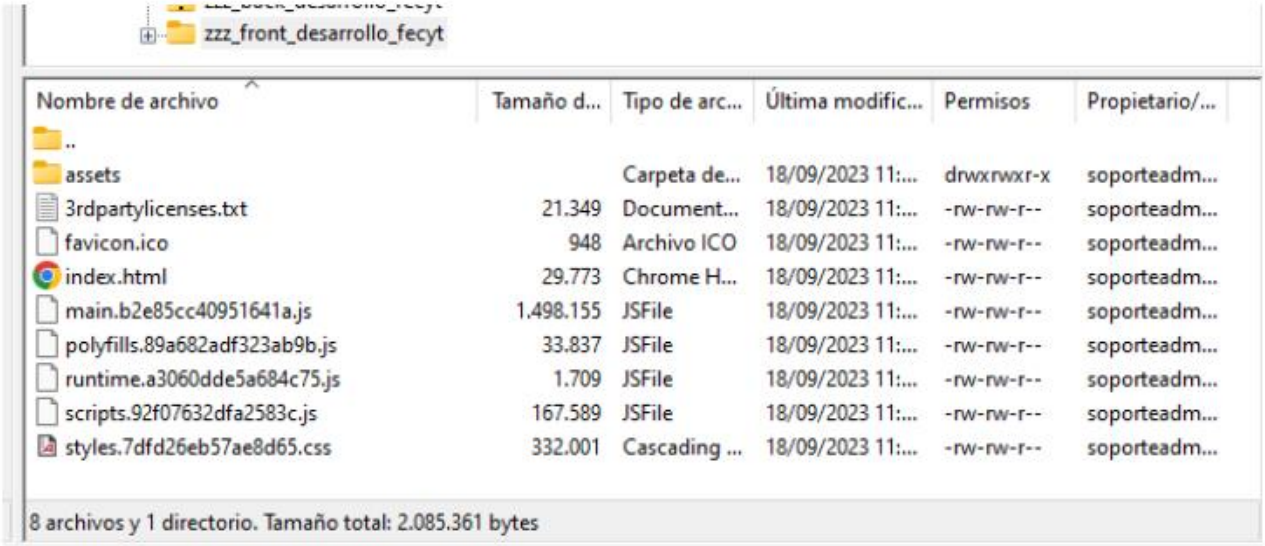
# FRONTEND

- Transfer of the dist.rar File:
  - Upload the provided dist.rar file to the soltel user's folder, as there are no permissions to upload it directly to the destination folder.
  - Use the SCP command: scp ".\dist.rar"
- Before moving dist.rar, if there is a previous version of the front-end, delete it with: rm /var/www/zzz_front_diamas_fecyt/*.
- Move the dist.rar files to the server directory with: cp /home/soltel/dist.rar /var/www/zzz_front_diamas_fecyt/.



- File Owner Change:
  - Change the owner of the files to www-data:www-data using the chown command.
- Initial Server Configuration:
  - If it's the first time configuring the server, install Nginx with sudo apt install nginx. By default, Nginx listens on port 80. If you need to change it, edit the file with sudo nano /etc/nginx/sites-available/default.
  - Note: If Apache is installed and using port 80, you'll need to change the port in Apache or Nginx.
- Creation of Configuration File for Nginx:
  - Create a configuration file for Nginx at /etc/nginx/sites-available/diamas, specifying the port with listen, the server's IP in server_name, and the project's path in root.


- Restarting Nginx:
  - Restart Nginx to apply the changes: sudo systemctl reload nginx.
  - Once this is done, the front-end should be correctly deployed on the assigned port.
- Handling Changes in the Front-End:
  - In case of changes in the front-end, it is recommended to stop and restart Nginx to avoid cache issues:
    - Stop Nginx: sudo systemctl stop nginx.
    - Start Nginx: sudo systemctl start nginx.
- Verification of Functionality:
  - Verify that the site https://diamas.fecyt.es is accessible and allows user registration in the system.

**NOTE: During the first user registration process in the system, it is crucial to assign them the administrator role. To achieve this, it is necessary to perform a specific update in the corresponding table of the database. This action ensures that the user has the necessary permissions to manage edits and perform other critical management tasks. Execute the following SQL command to update the role:**

**UPDATE `rol_relation` SET `rol_id`=1 WHERE `user_id`=1;**

```sql
UPDATE `rol_relation` SET `rol_id`=1 WHERE `user_id`=1;
```

Once this initial action is completed, it will not be necessary to repeat this process manually for future registrations or role assignments. Managing new users and modifying their permissions, including granting administrator roles, can be easily and efficiently done through the user panel integrated into the system. This tool facilitates user administration, allowing these tasks to be performed intuitively and automatically, saving time and improving operational efficiency.

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# Consortium overview

| | | |
|---|---|---|
| AMU | AIX MARSEILLE UNIVERSITÉ | FR |
| PVM | PROTISVALOR MEDITERRANEE SAS | FR |
| OPERAS | OPEN ACCESS IN THE EUROPEAN RESEARCH AREA THROUGH SCHOLARLY COMMUNICATION | BE |
| CNRS | CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS | FR |
| EIFL | STICHTING EIFL.NET | NL |
| FECYT | FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGIA, F.S.P., FECYT | ES |
| TSV | TIETEELLISTEN SEURAIN VALTUUSKUNNASTA | FI |
| LIBER | STICHTING LIBER | NL |
| UB | UNIVERSITAT DE BARCELONA | ES |
| UniZD | SVEUČILIŠTE U ZADRU | HR |
| FFZG | SVEUČILIŠTE U ZAGREBU FILOZOFSKI FAKULTET | HR |
| Science Europe | SCIENCE EUROPE | BE |
| EUA | ASSOCIATION EUROPÉENNE DE L'UNIVERSITÉ | BE |
| OASPA | STICHTING OPEN ACCESS SCHOLARLY PUBLISHERS ASSOCIATION | NL |
| UiT | UNIVERSITETET I TROMSØ - NORGES ARKTISKE UNIVERSITET | NO |
| CNR | CONSIGLIO NAZIONALE DELLE RICERCHE | IT |
| UGOE | GEORG-AUGUST-UNIVERSITAT GOTTINGEN STIFTUNG OFFENTLICHEN RECHTS | DE |
| SPE | STICHTING SPARC EUROPE | NL |
| UU | UNIVERSITEIT UTRECHT | NL |
| EKT | ETHNIKO KENTRO TEKMIRIOSIS KAI ILEKTRONIKOU PERIECHOMENOU | EL |
| IBL PAN | INSTYTUT BADAŃ LITERACKICH POLSKIEJ AKADEMII NAUK | PL |
| ESF | FONDATION EUROPÉENNE DE LA SCIENCE | FR |
| JISC | JISC LBG | UK |
| DOAJ | INFRASTRUCTURE SERVICES FOR OPEN ACCESS C I C | UK |

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