



REPERTOIRE 2026 SETUP GUIDE



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Repertoire 2026 Setup Guide

This document describes the setup of the Repertoire 2026 software and its pre-requisites, as well as creating a simple dashboard.

Refer to the following websites for more information:

- <https://docs.elixirtech.com/Repertoire/2026.0/index.html>
- www.elixirtech.com

Do note that this guide also works for Ambience software suite. To use for Ambience software, change all instances of “repertoire” in commands to “ambience” and change the port to 1740.

Another point to note for Ambience software is that it uses MongoDB, which is not mentioned here.

1. Pre-requisites

The following are the pre-requisites for Repertoire 2026 software suite:

- Java 17 or above (including OpenJDK)
- Repertoire 2026

2. Setup Repertoire

2.1. Installation

2.1.1. Install Dependencies – Java

Install Java 17

You need to download and install any Java 17 or above (including Open JDK) or higher for Repertoire.

2.1.2. Install Repertoire

Contact our representatives for the Repertoire suite and a licence. The Repertoire comes in a form of a zip file.

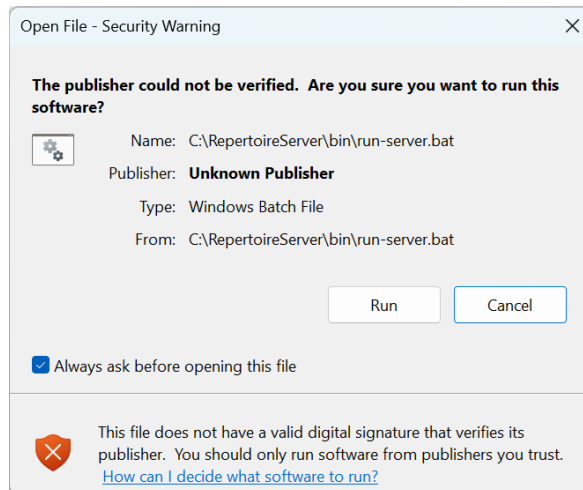
To install Repertoire, extract the zip file to the desired location.

2.2. Repertoire

2.2.1. Launch Repertoire on Windows

Use the following steps to launch Repertoire on Windows:

1. Go to Repertoire root directory, then to the “bin” folder.
2. To launch Repertoire:
 - Double click on the “run-server.bat” file for Windows
 - Execute “run-server” in terminal window
3. For Windows, if this is the first time you launch Repertoire, a dialog will appear.



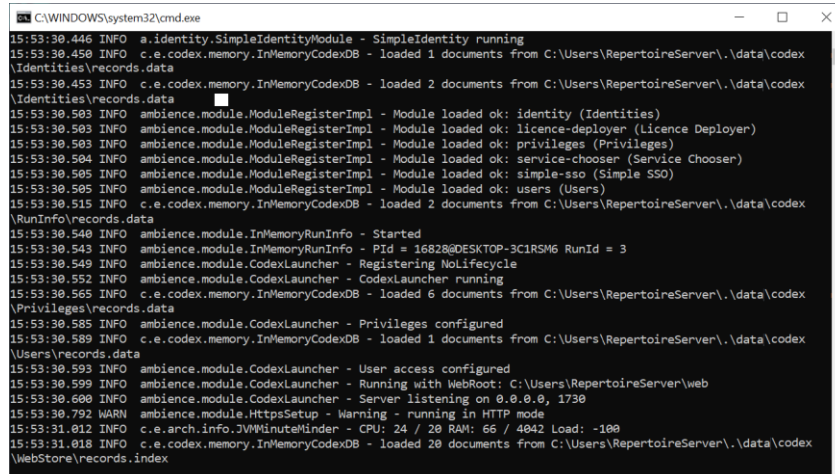
The “Always ask before opening this file” checkbox is checked by default, which means this dialog box will only appear once and will launch the Repertoire without prompting.

If you wish to have the dialog box to appear each time Repertoire is launched, uncheck the “Always ask before opening this file”.

Click on “Run” button at the bottom.

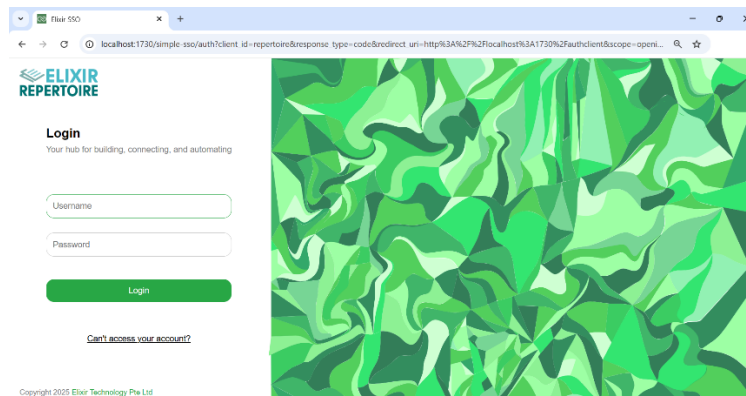
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4. A command window will appear. DO NOT close this command window.



```
C:\WINDOWS\system32\cmd.exe
15:53:30.446 INFO a.identity.SimpleIdentityModule - SimpleIdentity running
15:53:30.450 INFO c.e.codex.memory.InMemoryCodexDB - loaded 1 documents from C:\Users\RepertoireServer\.data\codex
\identities\records.data
15:53:30.453 INFO c.e.codex.memory.InMemoryCodexDB - loaded 2 documents from C:\Users\RepertoireServer\.data\codex
\identities\records.data
15:53:30.503 INFO ambience.module.ModuleRegisterImpl - Module loaded ok: identity (Identities)
15:53:30.503 INFO ambience.module.ModuleRegisterImpl - Module loaded ok: licence-deployer (Licence Deployer)
15:53:30.503 INFO ambience.module.ModuleRegisterImpl - Module loaded ok: privileges (Privileges)
15:53:30.504 INFO ambience.module.ModuleRegisterImpl - Module loaded ok: service-chooser (Service Chooser)
15:53:30.505 INFO ambience.module.ModuleRegisterImpl - Module loaded ok: simple-sso (Simple SSO)
15:53:30.505 INFO ambience.module.ModuleRegisterImpl - Module loaded ok: users (Users)
15:53:30.515 INFO c.e.codex.memory.InMemoryCodexDB - loaded 2 documents from C:\Users\RepertoireServer\.data\codex
\RunInfo\records.data
15:53:30.540 INFO ambience.module.InMemoryRunInfo - Started
15:53:30.543 INFO ambience.module.InMemoryRunInfo - Pid = 16828@DESKTOP-3C1RSM6 RunId = 3
15:53:30.549 INFO ambience.module.CodexLauncher - Registering NoLifecycle
15:53:30.552 INFO ambience.module.CodexLauncher - CodexLauncher running
15:53:30.565 INFO c.e.codex.memory.InMemoryCodexDB - loaded 6 documents from C:\Users\RepertoireServer\.data\codex
\Privileges\records.data
15:53:30.585 INFO ambience.module.CodexLauncher - Privileges configured
15:53:30.589 INFO c.e.codex.memory.InMemoryCodexDB - loaded 1 documents from C:\Users\RepertoireServer\.data\codex
\Users\records.data
15:53:30.593 INFO ambience.module.CodexLauncher - User access configured
15:53:30.599 INFO ambience.module.CodexLauncher - Running with WebRoot: C:\Users\RepertoireServer\web
15:53:30.600 INFO ambience.module.CodexLauncher - Server listening on 0.0.0.0, 1730
15:53:30.792 WARN ambience.module.HttpsSetup - Warning - running in HTTP mode
15:53:31.012 INFO c.e.arch.info.JVMMinuteMinder - CPU: 24 / 20 RAM: 66 / 4042 Load: -100
15:53:31.018 INFO c.e.codex.memory.InMemoryCodexDB - loaded 20 documents from C:\Users\RepertoireServer\.data\codex
\WebStore\records.index
```

5. Check the command window for any error messages. After a few seconds, you will see a message “ambience.module.CodexLauncher – Server listening on 0.0.0.0, 1730”.
6. Open a browser, key in “localhost:1730” on the address bar and hit the “Enter” key.
7. The Elixir Repertoire login page will appear.



2.2.2. Launch Repertoire on Ubuntu

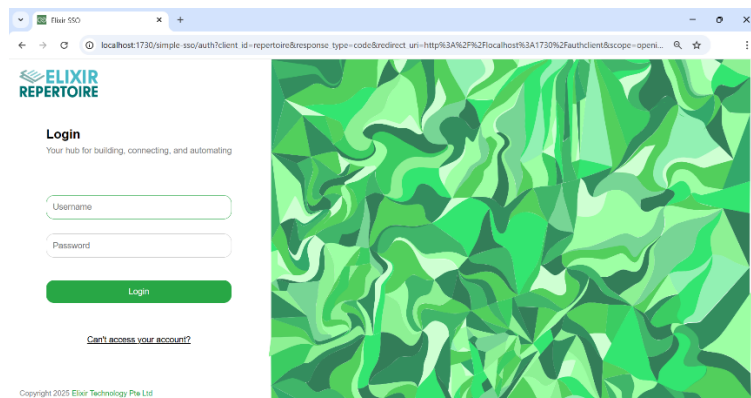
Use the following steps to launch Repertoire on Ubuntu:

1. In the terminal window, navigate to the Repertoire root directory, then to the “bin” folder.
2. In the terminal window, execute the command to launch Repertoire:

```
./run-server
```

```
QA:bin zhouying$ ./run-server
Config using defaults
09:19:10.093 INFO  ambience.module.Launcher - Log current config: true
09:19:10.134 INFO  ambience.module.Launcher - Launcher invoked
09:19:10.168 INFO  ambience.module.StartupTests - user.name=zhouying
09:19:10.169 INFO  ambience.module.StartupTests - user.home=/Users/zhouying
09:19:10.169 INFO  ambience.module.StartupTests - user.dir=/Users/zhouying/Test/Ambience/2020-SNAPSHO
T
09:19:10.170 INFO  ambience.module.StartupTests - java.version=11.0.3
09:19:10.171 INFO  ambience.module.StartupTests - java.vendor=Oracle Corporation
09:19:10.171 INFO  ambience.module.StartupTests - java.home=/Library/Java/JavaVirtualMachines/jdk-11.
0.3.jdk/Contents/Home
09:19:10.171 INFO  ambience.module.StartupTests - java.io.tmpdir=/var/folders/4t/4t8mqkvj3zv7s8z2yh1f
v9xw0000gn/T/
09:19:10.172 INFO  ambience.module.StartupTests - os.name=Mac OS X
09:19:10.172 INFO  ambience.module.StartupTests - os.arch=x86_64
09:19:10.172 INFO  ambience.module.StartupTests - os.version=10.14.6
09:19:10.878 INFO  akka.event.slf4j.Slf4jLogger - Slf4jLogger started
09:19:11.696 INFO  com.elixirtech.arch.info.JavaPID - JVM Name = 60919@QA
09:19:11.709 INFO  com.elixirtech.mongodb.MongoDB - MongoDB ambience Serial=1
09:19:11.716 INFO  com.elixirtech.mongodb.MongoDB - Building MongoDB Client starting (com.elixirtech.
mongodb.DefaultMongoDB.buildMongoClient:30)
09:19:11.852 INFO  org.mongodb.driver.cluster - Cluster created with settings {hosts=[localhost:27017
```

3. Open a browser, key in “localhost:1730” on the address bar and hit the “Enter” key.
4. The Elixir Repertoire login page will appear.



2.2.3. Launch Repertoire on macOS

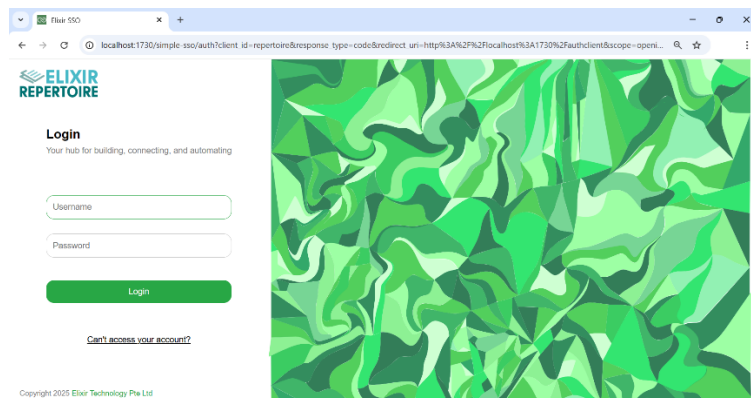
Use the following steps to launch Repertoire on macOS:

1. In the terminal window, navigate to the Repertoire root directory, then to the “bin” folder.
2. In the terminal window, execute the command

```
./run-server
```

```
QA:bin zhouying$ ./run-server
Config using defaults
09:19:10.093 INFO  ambience.module.Launcher - Log current config: true
09:19:10.134 INFO  ambience.module.Launcher - Launcher invoked
09:19:10.168 INFO  ambience.module.StartupTests - user.name=zhouying
09:19:10.169 INFO  ambience.module.StartupTests - user.home=/Users/zhouying
09:19:10.169 INFO  ambience.module.StartupTests - user.dir=/Users/zhouying/Test/Ambience/2020-SNAPSHO
T
09:19:10.170 INFO  ambience.module.StartupTests - java.version=11.0.3
09:19:10.171 INFO  ambience.module.StartupTests - java.vendor=Oracle Corporation
09:19:10.171 INFO  ambience.module.StartupTests - java.home=/Library/Java/JavaVirtualMachines/jdk-11.
0.3.jdk/Contents/Home
09:19:10.171 INFO  ambience.module.StartupTests - java.io.tmpdir=/var/folders/4t/4t8mqkvj3zv7s8z2yh1f
v9xw0000gn/T/
09:19:10.172 INFO  ambience.module.StartupTests - os.name=Mac OS X
09:19:10.172 INFO  ambience.module.StartupTests - os.arch=x86_64
09:19:10.172 INFO  ambience.module.StartupTests - os.version=10.14.6
09:19:10.878 INFO  akka.event.slf4j.Slf4jLogger - Slf4jLogger started
09:19:11.696 INFO  com.elixirtech.arch.info.JavaPID - JVM Name = 60919@QA
09:19:11.709 INFO  com.elixirtech.mongodb.MongoDB - MongoDB ambience Serial=1
09:19:11.716 INFO  com.elixirtech.mongodb.MongoDB - Building MongoDB Client starting (com.elixirtech.
mongodb.DefaultMongoDB.buildMongoClient:30)
09:19:11.852 INFO  org.mongodb.driver.cluster - Cluster created with settings {hosts=[localhost:27017
```

3. Open a browser, key in “localhost:1730” on the address bar and hit the “Enter” key.
4. The Elixir Repertoire login page will appear.



2.2.4. Login

By default, the Repertoire has a super user “admin”.

Use the following steps to log into Repertoire:

1. After launching Repertoire, the log-in page will appear.
2. To log into Repertoire, key in the following:
 - Username: admin
 - Password: sa



Login

Your hub for building, connecting, and automating

Login

[Can't access your account?](#)

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If 2FA has not been enabled, the 2FA Code will not appear after the log-in page. Refer to the [Ambience-Repertoire Admin Guide](#) on how to enable 2FA.

If the user has not set up the 2FA yet, leaves the 2FA Code blank. Click on the “Login” button.



2FA Code

Enter the 6-digit code from your authenticator app to continue

Authentication Code

Leave this blank if you have not configured 2FA

Login

[Not admin? Go back](#)

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If the user has forgotten the password, click on the “Can’t access your account?” link at the bottom right. A dialog box will appear, prompting the user to enter the user’s username.



Forgot Password

Enter your username to receive password reset instructions by email

Request Password Reset

[Back to login...](#)

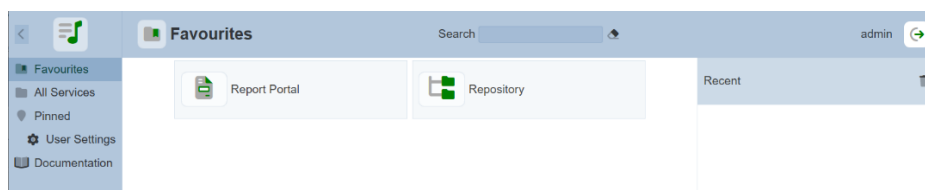
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Click on the “Request Password Reset” button and the new password will be sent to the user’s email along with a notification. To abort this action, click on the “Back to login...” link at the bottom right.

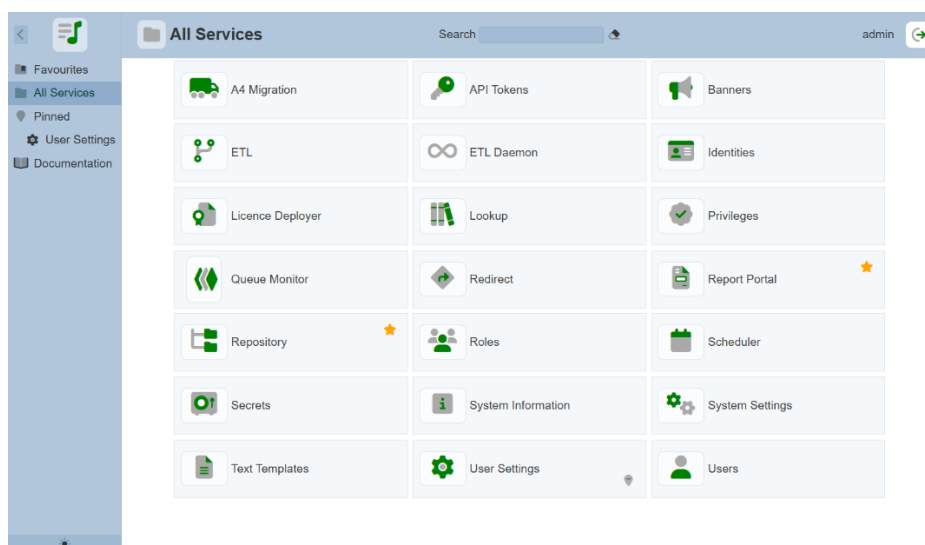
localhost:1730/simple-ss0/reset-password

Reset request accepted. Please check your email for more details.

- Click on the “Login” button. Upon login, the “Service Chooser” screen will appear with default modules in the “Favourites” options.



- Click on the “All Services” option in the left panel to display the list of available modules in the right panel.

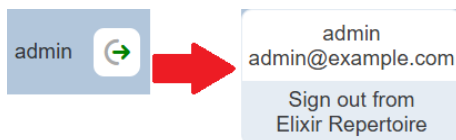


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5. If the licence in Repertoire is the minimal licence, the right panel will display the set of modules that are allowed by the minimal licence. Contact our representatives for the new licence if the current licence expires.

2.2.5. Logout

To log out of Repertoire, click on the “Profile” icon on the upper right corner of the page. A dialog box will appear. Click on the “Sign out from Elixir Repertoire” portion to log out of Repertoire.

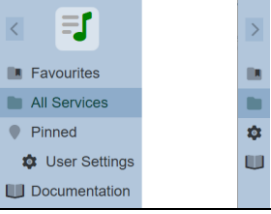
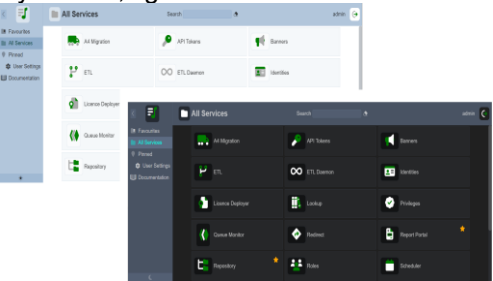


2.2.6. Repertoire Interface

This section briefly describes the interface of the Repertoire “Service Chooser” page.

Upon login into Repertoire, you will see the “Service Chooser” page. This page will display all the modules that are currently available.



| | |
|---------------------------------|---|
| Navigation Panel | <p>Consists of three parts:</p> <ul style="list-style-type: none"> At the top – Show/Hide button and Elixir Repertoire logo At the centre – List of service options At the bottom – Toggle Dark/Light mode button |
| Show/Hide button | <p>Expand or collapse the navigation panel. By default, the navigation panel is shown (expanded). If collapsed, the navigation panel shows only the icons of the service options.</p>  |
| Elixir Repertoire | <p>The Elixir Repertoire logo allows user to return to the Favourites option from any page the user has navigation to.</p> |
| Service Options | <p>Any option selected in this panel will have its content displayed in the Content Panel.</p> |
| Toggle Dark/Light button | <p>Allows user to toggle between light and dark mode. By default, light mode is used.</p>  |
| Content Panel | <p>Displays the content of the option selected in the Navigation Panel or any other page navigation to. When the “All Services” option is selected, the services available to the user will be displayed</p> |
| Logout | <p>When clicked upon, a pop-up will appear. Displaying the user's profile at the top and the logout option below. Click on “Sign out from Elixir Repertoire” to log out of Repertoire.</p> |

2.3. Deploy Licence

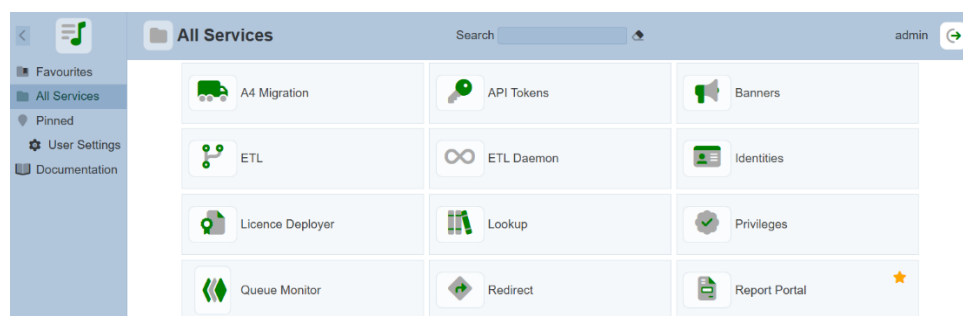
When the Repertoire is initially installed, it comes with a default licence. This default licence allows a minimal set of modules and does not have an expiration date.

To access to other modules in Repertoire, a new licence needs to be imported into Repertoire. This new licence has an expiration date and need to be replaced before the expiry or Repertoire will fall back onto the minimal set of modules.

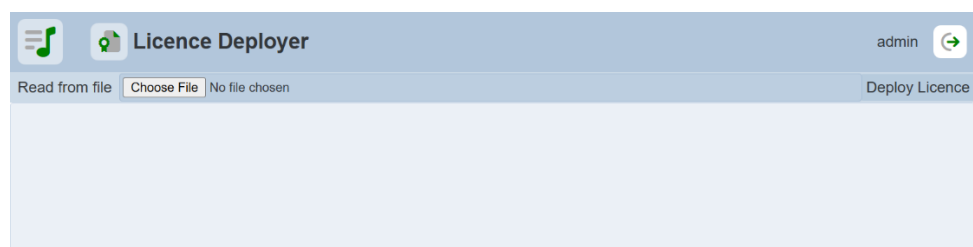
There are two methods to deploy the licence, either by using the Repertoire interface or by using the Ambience command line interface. This method is useful during setup as you can install the licence before starting the server, hence avoiding the need to stop and restart.

To deploy a licence using Repertoire interface:

1. From the “Service Chooser” page, select the “Licence Deployer” in the right panel. If Ambience is initially installed and logged in for the first time, step 2 will appear directly.



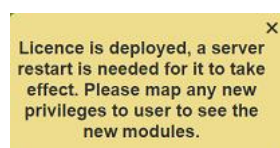
2. The “Licence Deployer” page will appear.



3. Click on the “Choose File” button and browse to the location of the licence file (*ElixirRepertoire.licence*). The content of the licence file will appear in the editor.



4. If the content is correct, click on the “Deploy Licence” button at the upper right corner of the page.
5. Upon successful upload, a message will appear.



6. After the licence has been deployed to the server. Restart the server for the licence to take effect.

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7. Ensure to map any new privileges to the desired users to see the new modules.

To deploy a licence using Repertoire command line interface:

1. Open a terminal window and navigate to the Repertoire main folder, then navigate to the "bin" folder.

2. In the command line, key in the following command:

```
repertoire-cli deploy-licence <path of ElixirRepertoire.licence file>
```

3. The command line window will display messages indicating the successful deployment.



```
Command Prompt
C:\Users\Repertoire\bin>repertoire-cli deploy-licence C:\ElixirRepertoire.licence
20:10:37.821 INFO com.elixirtech.mongodb.MongoDB - MongoDB connection information: localhost:27017
20:10:37.831 INFO com.elixirtech.mongodb.MongoDB - MongoDB ambience Serial=1
20:10:37.842 INFO com.elixirtech.mongodb.MongoDB - Building MongoDB Client starting (com.elixirtech.mongodb.DefaultMongo
oDB.buildMongoClient:48)
20:10:38.374 INFO com.elixirtech.mongodb.MongoDB - Building MongoDB Client elapsed time 526ms
20:10:38.375 INFO com.elixirtech.mongodb.MongoDB - Opening database: ambience
20:10:38.653 INFO ambience.cli.DeployLicence - Licence Deployed
C:\Users\Repertoire\bin>
```

4. Restart the server to allow the new licence to take effect.

2.4. Report Generation

It is often required to generate reports, either an ad-hoc report or a report at a particular day or time of the month, every month.

For both cases, the report can be generated via the Repository module, manually.

But to generate a report month after month manually can be tedious and a repetitive task. This job can be automated using ETL chainset and a scheduler.

The following sections describe how to generate a report manually and how to automate a report to run monthly.

2.5. Manual Report Generation

A report can be generated manually via the Repository module.

The Repository module stores files, such as DocX and RML report templates and datasources which are used in report generation.

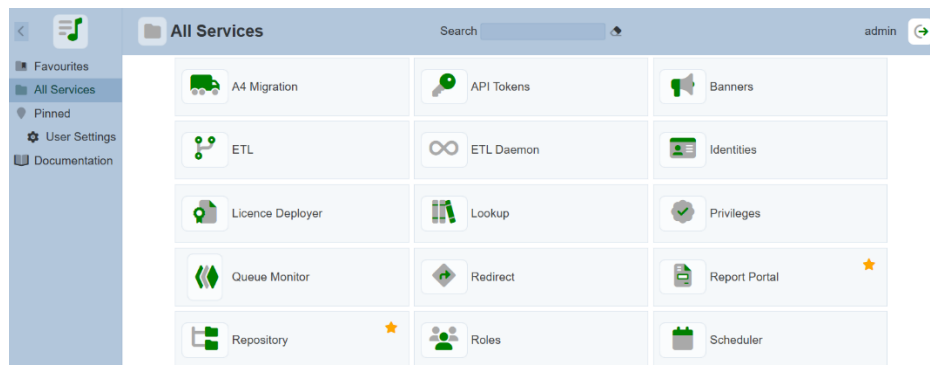
The following sections describes the above steps.

2.5.1. Upload Report Template and Datasource

To generate a report, a report template (either a DocX or RML) file and a datasource are required.

Use the following steps to upload the required files onto the repository:

1. From the “Service Chooser” page, select “Repository” in the right panel.



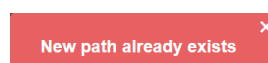
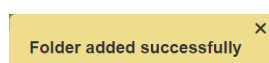
2. The “Repository” page will appear.



3. Navigate to the desired location in the repository.
4. If a new folder is required, click on the “Add Folder...” button on the left panel. The “Add Folder” dialog box will appear.



5. Key in a unique name for the new folder and click on the “OK” button.
6. A message will appear once the folder is added. If the name already exist, an error message will appear.



7. From the file explorer, select the desired file and drop the file onto the “Drop files here” box in the repository.

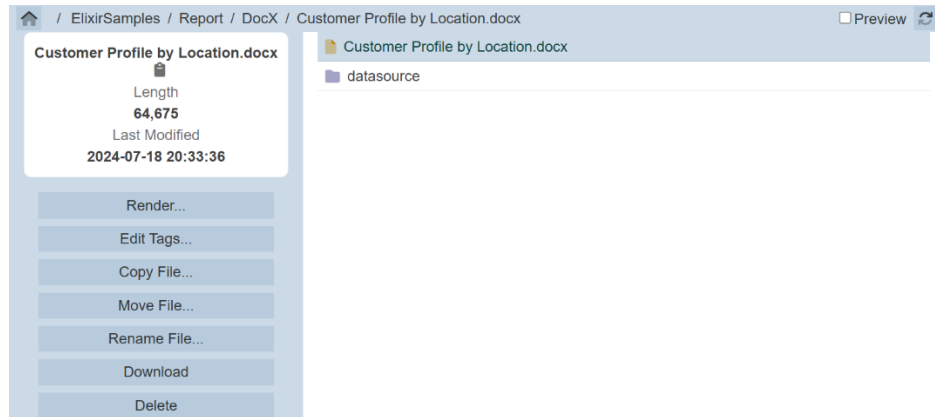
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- Once the file is deposited into the repository, it will appear in the Content Panel. Select the file and the available actions will appear in left panel.

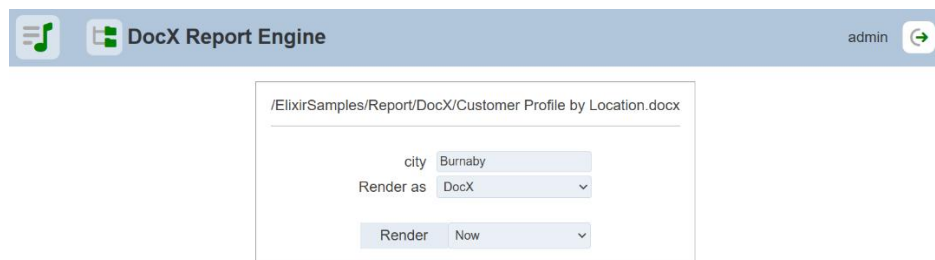
2.5.2. Render Reports

To generate a report manually using the repository, the following steps are required:

- In the Repository module, navigate to the location of the report template.
- Select the desired report template file.



- On the left panel, click on the “Render” button to generate the report.
- The DocX Report Engine page will appear.



If a RML file is selected, the RML Report Engine page will appear.

- Select the desired parameter and output format.
- You can opt to render the immediately or select a pre-defined time to run the report from the drop-down list on the right of the “Render” button. After selecting the option, click on the “Render” button.
- Depending on the selection, the report will be generated now or at the pre-selected timing.

| Canada | | | |
|------------------|---------------------|------------|--------|
| Burnaby (Canada) | | | |
| CustomerID | Education | Birth Date | Gender |
| 10185 | Partial College | 1973-04-22 | M |
| 9015 | Bachelors Degree | 1922-05-25 | F |
| 10016 | High School Degree | 1936-11-02 | M |
| 9649 | Partial High School | 1937-07-28 | M |
| 9128 | Partial College | 1930-01-23 | F |
| 9843 | Bachelors Degree | 1931-09-07 | F |
| 9650 | Partial College | 1924-05-15 | F |
| 9880 | High School Degree | 1922-09-23 | F |
| 9798 | High School Degree | 1977-04-07 | M |

2.6. Automatic Report Generation

It is beneficial for the reports to be generated automatically instead of being generated manually. This can avoid error and forgetting to generate the report.

To generate based on a schedule, the following steps are required:

1. Upload the required report template (DocX or RML) and datasource onto the Repository.
2. Create ETL chainset that calls the report template to generate the report.
3. Create calendars and trigger that will automatically generates the report.

The following sections describes the above steps.


2.6.1. Report Template and Datasource

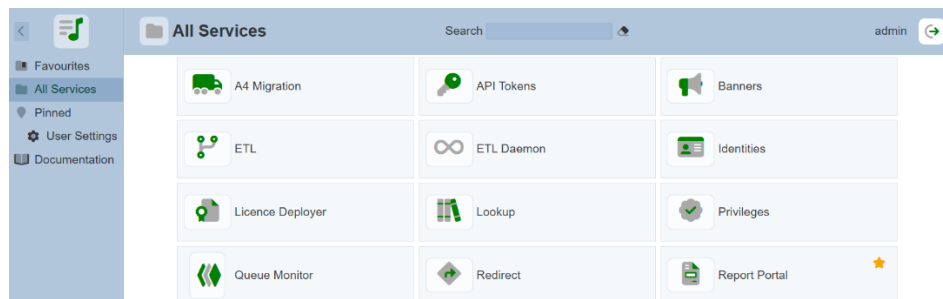
Before generating a report, the report template (either DocX or RML) file and the datasource must be present in the Repository module.

If they are not present, see [Section 2.5.1 Upload Report Template and Datasource](#) on how to upload the relevant files onto the repository.

2.6.2. Create ETL

Use the following steps to create an ETL chainset that calls the report and generates an output file:

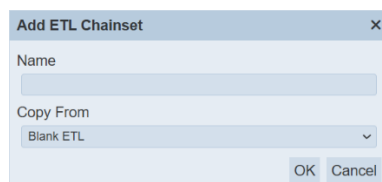
1. Click on the  “Elixir Repertoire” icon on the upper left corner of the page and select “All Services”. In the right panel, select “ETL”.



2. The “ETL” page will appear.

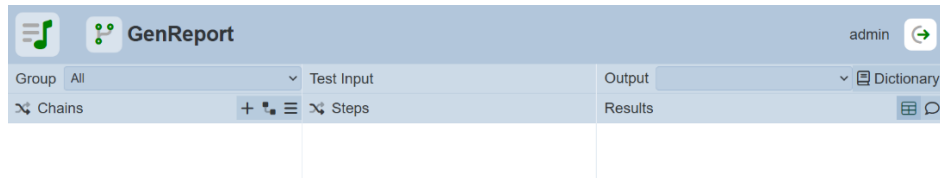


3. In the “ETL” page, click on the “Add” button on the upper right corner of the page. A “Add ETL Chainset” dialog box will appear.

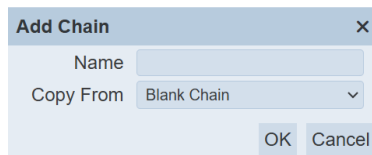


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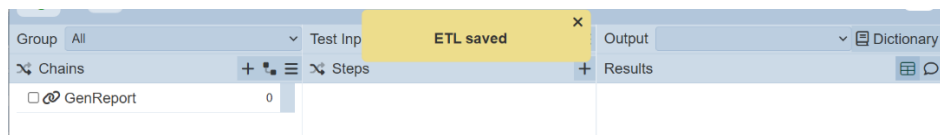
4. In the dialog box, key in and select the following:
 - “Name” field – Key in a name for the new ETL chainset
 - “Copy From” field – Selects to copy from existing ETL from drop-down list or a blank ETL
(in this example, a blank ETL is selected)
5. Click on the “OK” button to create the new blank ETL and the ETL Designer page will appear.



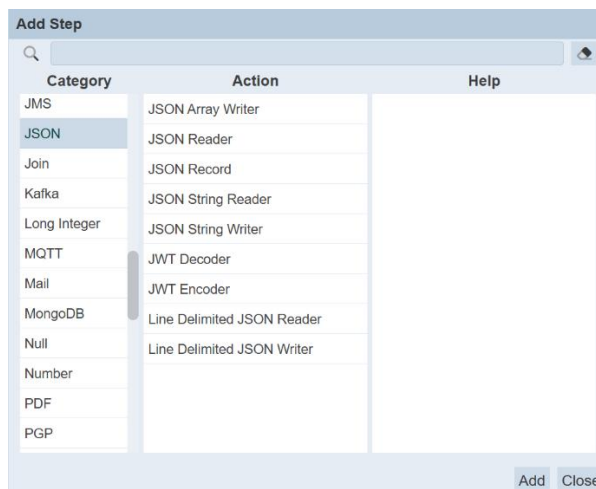
6. In “Chains” section, click on the “+” icon. The “Add Chain” dialog box will appear.



7. In the dialog box, key in and select the following:
 - “Name” Field – Key in a name for the new
 - “Copy From” field – Selects an existing chain from the drop-down list or a blank chain (in this example, select “Blank Chain”)
8. Click on the “OK” button to save the changes. A message will appear upon successful saving the ETL.



9. In this example, three steps are required:
 - a) First step – Calls the Ambience RML engine to generate the report
 - b) Second step – Defines the path of the report generated
 - c) Third step – Places a marker to indicate the ETL chain is usable directly by authenticated HTTP calls
10. Click on the “+” icon in the “Steps” panel. The “Add Step” dialog box will appear.

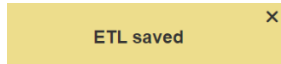


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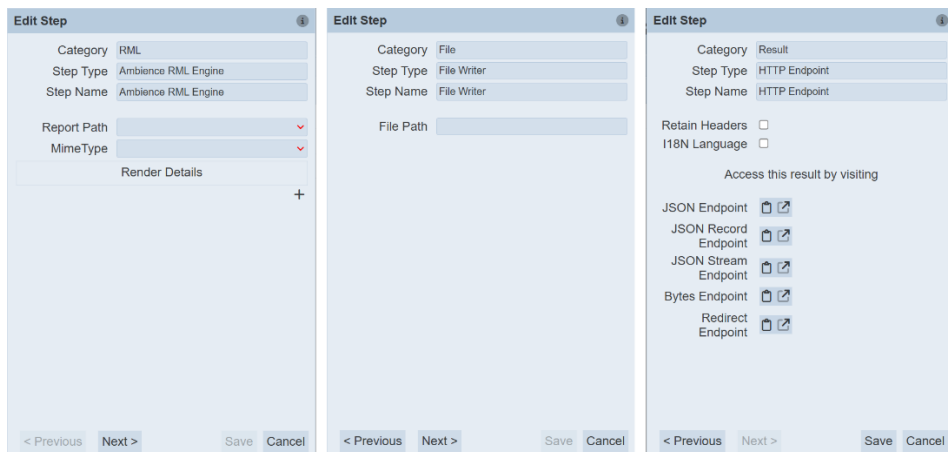
11. Search and add the following ETL steps in the following category:

| Category | Step Name |
|----------|---------------------|
| RML | Ambience RML Engine |
| File | File Writer |
| Result | HTTP Endpoint |

12. Add first ETL step and click on the “Add” button. The ETL step will be added into the “Steps” panel. Repeat the other two steps and click on the “Close” button to close the dialog box. A message will appear upon successful saving the ETL.



13. The “Edit Step” dialog box will appear, prompting user to enter the required parameters.



14. For the first ETL step, select the desired value for the following parameters:

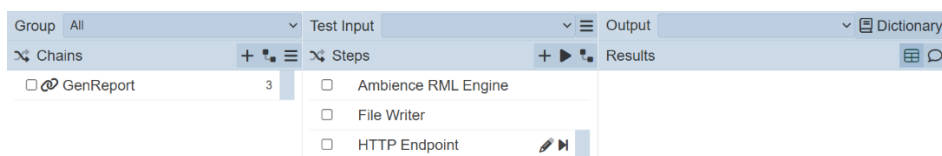
- “Report Path” field – Selects the report template in the repository from the drop-down list
- “Mime Type” field – Selects the output report file format

15. To go to the next ETL, click on the “Next >” button at the bottom of the dialog box.

16. For the second ETL step, define the path for the output report file in the “File Path” field.

17. Click on the “Next >” button to go the next ETL. The third ETL does not have any parameters. Click on the “Save” button to save the edits. To go to the previous ETL step, click in the “< Previous” button.

18. To test if the ETL chainset generates the report, either select the last ETL step and click on the ▶ “Run to Step” icon that appear on the right or click on the ▶ “Run Steps” icon. Find the output report file in the location defined in the second ETL step.




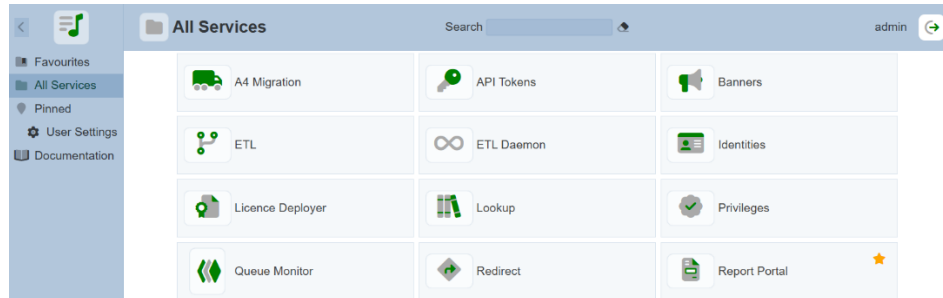
19. To edit the ETL step, select the ETL step and click on the ✎ “Edit” icon. The “Edit Step” dialog box will appear.

2.6.3. Scheduler ETL Via Email

This method allows you to send an alert to any users, as long as their email addresses are defined in the step.

Use the following steps to create a scheduler ETL via email:

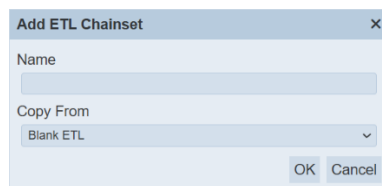
1. Click on the  “Elixir Repertoire” icon on the upper left corner of the page and select “All Services”. In the right panel, select “ETL”.



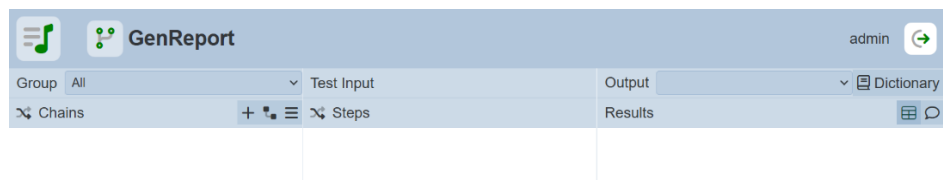
2. The ETL page will appear.



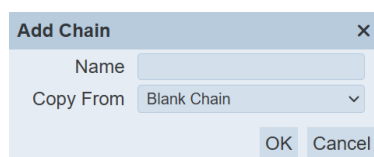
3. In the “ETL” page, click on the “Add” button on the upper right corner of the page. A “Add ETL Chainset” dialog box will appear.



4. In the dialog box, key in and select the following:
 - “Name” field – Key in a name for the new ETL
 - “Copy From” field – Selects an existing ETL from drop-down list or a blank ETL (in this example, select “Blank ETL”)
5. Click on the “OK” button to save the changes.
6. The ETL Designer page appears.



7. In “Chains” section, click on the “+” icon. The “Add Chain” dialog box will appear.

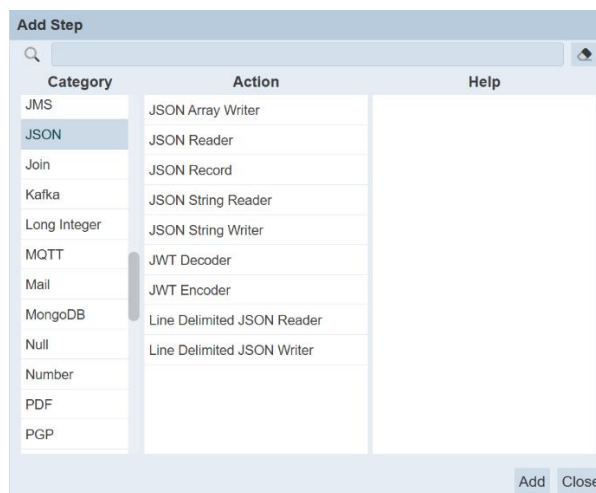


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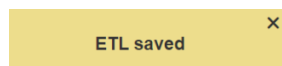
8. In the dialog box, key in and select the following:
 - “Name” Field – Key in a name for the new
 - “Copy From” field – Selects an existing chain from the drop-down list or a Blank chain (in this example, select “Blank Chain”)
9. Click on the “OK” button to save the changes. A message will appear upon successful saving the ETL.



10. For the via email method, two steps are required:
 - a. First step – Compose Mail
 - b. Second step – Send Mail
11. Click on the “+” icon in the “Steps” panel. The “Add Step” dialog box will appear.



12. Add first ETL step and click on the “Add” button. The ETL step will be added into the “Steps” panel. Repeat for the other step and click on the “Close” button to close the dialog box. A message will appear upon successful saving the ETL.



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13. The “Edit Step” dialog box will appear.

Key in the desired text as content for the email. Click on the “Next >” button to go to the next ETL.

The image shows two side-by-side "Edit Step" dialog boxes. Both have a title bar with an information icon. The left dialog is titled "Edit Step" and has fields for "Category" (Mail), "Step Type" (Compose Mail), and "Step Name" (Compose Mail). Below these is a "Message" text area with a "Plain Text" button. At the bottom of the message area are two checkboxes: "Include Attachment" and "Fold". The right dialog is also titled "Edit Step" and has fields for "Category" (Mail), "Step Type" (Send Mail), and "Step Name" (Send Mail). Below these are five text input fields: "TO", "CC", "BCC", "ReplyTo", and "Subject". Both dialogs have a footer with four buttons: "< Previous", "Next >", "Save", and "Cancel".

14. In the second ETL, key in the appropriate email addresses and subject in the respective fields.
15. To go back to the previous ETL, click on the “< Previous” button. Click on the “Save” button to save the edits.

2.6.4. Create Schedule

The Scheduler module allows you to set up jobs to automatically trigger the generation of these reports. The Scheduler module also allows you to view the status of the job, or sent an email to you, if it is being set up.


The Scheduler module consists of three pages:

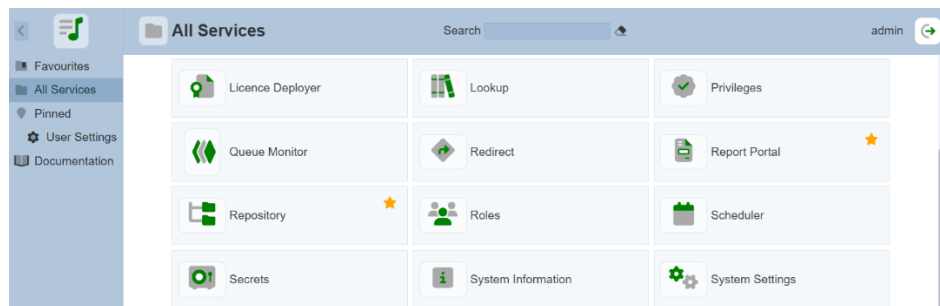
- Status – Shows the status of the job triggers that have run or are currently running
- Trigger – List all jobs that are available for the owner
- Calendar – List all constraints shared among the triggers

2.6.4.1. Create Calendar

The Calendar page in the Scheduler module allows you to set conditions or constraints in these calendars and apply them onto the trigger to determine when the job is to be run, such as which year, month, day and/or time, as well as the time zone. Do note that the calendar constraints may be shared and can be used by more than one trigger.

Use the following steps to create a simple public holiday calendar:

1. Click on the  “Elixir Repertoire” icon on the upper left corner of the page and select “All Services”. In the right panel, select “Scheduler”.



2. The “Scheduler” page will appear.

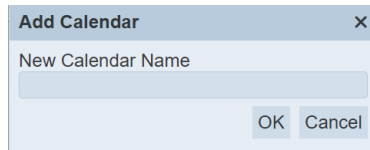
| Scheduler | | | | | | | | |
|-----------|--------------------------------------|--------|---------------------|---------------------|---------|---------|-----------|---------|
| | | Search | | | | | | |
| Status | Name | Owner | Started | Finished | Elapsed | Mode | Status | Actions |
| Trigger | Trigger - Run hourly w same cron job | admin | 2024-12-04 16:00:20 | 2024-12-04 16:00:20 | 108 ms | run-now | Completed | ... |
| Calendar | Trigger - Run weekly -Days of year | admin | 2024-12-04 16:00:09 | 2024-12-04 16:00:10 | 1937 ms | run-now | Completed | ... |

3. Click on the “Calendar” option in the left panel.

| | | Search | | | Add | Refresh |
|----------|-------------------------|------------------------------|----------------|--|-----|---------|
| Status | Name | Description | TimeZone | | | Actions |
| Trigger | PublicHoliday Singapore | Public Holidays in Singapore | System Default | | | ... |
| Calendar | Weekdays | Working days | System Default | | | ... |

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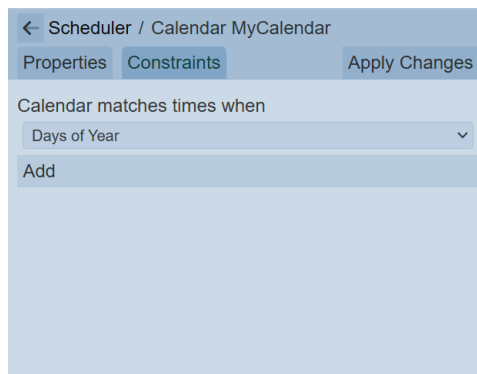
- Click on the “Add” button on the upper right corner of the “Calendar” page. The “Add Calendar” dialog box will appear.

A dialog box titled "Add Calendar" with a close button (X) in the top right corner. It contains a text input field labeled "New Calendar Name". At the bottom right, there are two buttons: "OK" and "Cancel".

- In the dialog box, key in a unique name and click on the “OK” button to create the new calendar.
- The new calendar with no constraints will appear in the management page.
- To edit the calendar, click on the name of the calendar under the “Name” column.
- The “Scheduler / Calendar” panel will appear.

A panel titled "Scheduler / Calendar MyCalendar". It has three tabs: "Properties", "Constraints", and "Apply Changes". The "Properties" tab is active. It contains three fields: "Name" with the value "MyCalendar", "Description" (empty), and "TimeZone" with a dropdown menu showing "System Default".

- In the “Properties” tab, key in and select the following:
 - “Name” field – Edit the unique name of the calendar
 - “Description” field – Key in a brief description for the calendar (optional)
 - “TimeZone” field – Selects timezone from drop-down list (optional but recommended) (in this example, select “Singapore”)
- In the “Constraint” tab, select the following:
 - “Calendar matches times when” field – Selects “Day of Year”
 - The next field is dependent on the above field, one or more fields may appear

The same panel as before, but with the "Constraints" tab selected. It shows a dropdown menu for "Calendar matches times when" with "Days of Year" selected. Below this is an "Add" button.

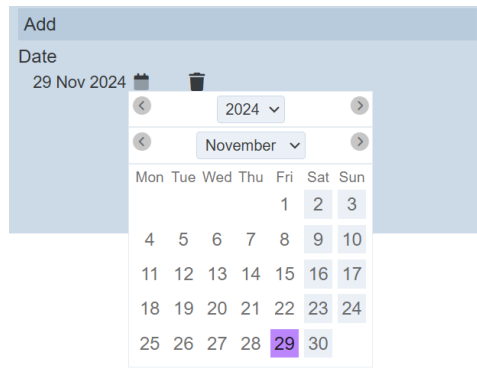
- Click on the “Add” button to add a new date.

A dialog box titled "Add" with a close button (X) in the top right corner. It contains a text input field labeled "Date" with the value "29 Nov 2024". To the right of the date is a calendar icon and a trash can icon.

By default, the current date is selected.

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12. Click on the “Calendar” icon and select the correct date.



13. Repeat steps 6 and 7 until all public holidays are added.

14. Click on the “Apply Changes” button to save the changes.

15. Click on the ← “Previous” icon to return to the management page.

Repeat the above steps to create a weekday calendar that involves Monday to Friday only.

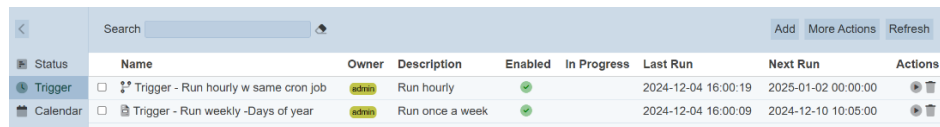
2.6.4.2. Trigger

A trigger defines the following:

- Chain or chainset to run
- Frequency or interval of the trigger
- Calendars to decide when a trigger should fire at a particular month, date, day and/or time, as well as the time zone

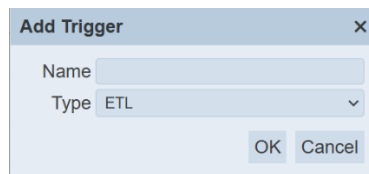
Use the following steps to create a simple trigger:

1. Click on the “Trigger” option in the left panel.



| Status | Name | Owner | Description | Enabled | In Progress | Last Run | Next Run | Actions |
|----------|--------------------------------------|-------|-----------------|---------|-------------|---------------------|---------------------|---------|
| Trigger | Trigger - Run hourly w same cron job | admin | Run hourly | ✓ | | 2024-12-04 16:00:19 | 2025-01-02 00:00:00 | |
| Calendar | Trigger - Run weekly -Days of year | admin | Run once a week | ✓ | | 2024-12-04 16:00:09 | 2024-12-10 10:05:00 | |

2. Click on the “Add” button on the upper right corner of the page.
3. The “Add Trigger” dialog box will appear.



Add Trigger

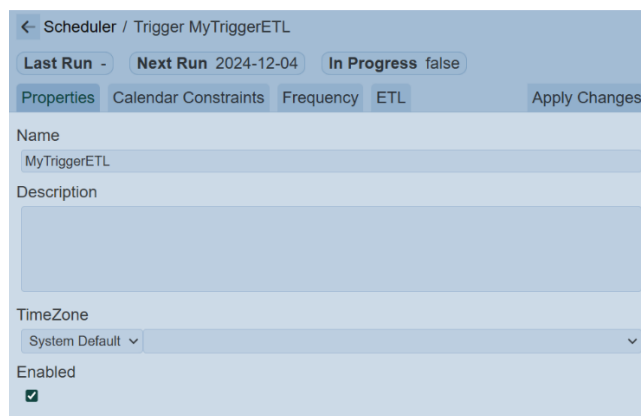
Name
Type ETL
OK Cancel

4. Key in a unique name for the trigger in the “Name” field and select the type of trigger for the “Type” field.

There are two types of triggers:

- ETL – Job run by ETL chain/chainset
- Report – Job run by defining report

5. The new trigger is created and will appear in the management page.
6. To edit the trigger, click on the name of trigger under the “Name” column. The “Scheduler / Trigger” panel will appear.



Scheduler / Trigger MyTriggerETL

Last Run - Next Run 2024-12-04 In Progress false

Properties Calendar Constraints Frequency ETL Apply Changes

Name MyTriggerETL
Description
TimeZone System Default
Enabled ☒

7. In the “Properties” tab, key in and select the following:
 - “Name” field – Key in a unique name for the calendar
 - “Description” field – Key in a brief description for the calendar (optional)
 - “TimeZone” field – Selects timezone from drop-down list (optional but recommended) (in this example, select “Singapore”)
 - “Enabled” field – Ensure this field is selected

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8. In the “Constraint” tab, select the following:

- “Day of Week – Weekdays” – Selects “Include”
- “Public Holiday Singapore” – Selects “Exclude”

This will ensure only weekday and non-public holidays will trigger the job.

The screenshot shows the 'Calendar Constraints' tab in the 'Scheduler / Trigger MyTriggerETL' interface. At the top, there are buttons for 'Last Run', 'Next Run' (2024-12-04), and 'In Progress' (false). Below these are tabs for 'Properties', 'Calendar Constraints', 'Frequency', 'ETL', and 'Apply Changes'. The 'Calendar Constraints' tab is active, displaying a list of constraints with expandable dropdown arrows. The visible constraints are: 'Cron expression - At 14.15', 'Cron expression - At 14.15 2', 'Cron expression - Every day at 1 PM', 'Day of Month - First 10 Day of month', 'Day of Month - First 4 Day of weekday', 'Day of Month - Last 10 Day of month', 'Day of Week - Last 4 Day of week', 'Day of Week - Weekdays', 'Day of Week - Weekend', 'Day of Year - days 1,5,11,15,20,25,30 March 2020', 'Days of Year - Labour Day', 'Edit Calendar', 'MyCalendar', 'Time of Day - 14.30.30 to 14.31.30', 'Time of Day - 9 AM to 5 PM', and 'Time of Day - 9 AM to 6 PM'.

9. In the “Frequency” tab, key in and select the following:

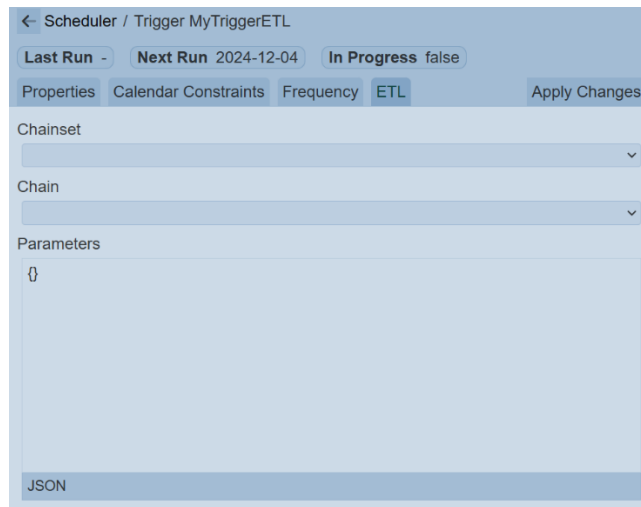
- “Trigger Mode” field – Selects “Run Monthly”
- “Monthly” field – Selects all months
- “Days” field – Selects this field and key in “10”
- “Time of Day” field – Key in “9” in the “Hour” field, “05” in the “Minute” field

The screenshot shows the 'Frequency' tab in the 'Scheduler / Trigger MyTriggerETL' interface. At the top, there are buttons for 'Last Run', 'Next Run' (2024-12-04), and 'In Progress' (false). Below these are tabs for 'Properties', 'Calendar Constraints', 'Frequency', 'ETL', and 'Apply Changes'. The 'Frequency' tab is active, displaying the 'Trigger Mode' dropdown set to 'Run Monthly'. Below this is a 'Month' section with checkboxes for all months (Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec), all of which are checked. There is a 'Days' section with a radio button selected, a text input field containing '10', and a note '(eg. 1,2,14-18 etc. or * for all)'. Below this are two 'On' options: 'On First Monday' and 'On First Day', both with dropdown menus. At the bottom is a 'Time of Day' section with input fields for 'Hour' (9), 'Minute' (0), and 'Second' (0).


10. The last tab depends on which type of trigger is selected prior. In this case, ETL is selected.

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11. In the “Job” tab, select the scheduler ETL that was created in [Section 2.5.3 Scheduler ETL](#).



The screenshot shows the configuration page for a scheduler named 'Trigger MyTriggerETL'. At the top, there is a breadcrumb navigation bar with a back arrow and the text 'Scheduler / Trigger MyTriggerETL'. Below this, there are three tabs: 'Last Run', 'Next Run', and 'In Progress'. The 'Next Run' tab is active, showing the date '2024-12-04' and the status 'false'. To the right of these tabs is an 'Apply Changes' button. Below the tabs, there are four sub-tabs: 'Properties', 'Calendar Constraints', 'Frequency', and 'ETL'. The 'ETL' sub-tab is active. Under the 'ETL' sub-tab, there are three sections: 'Chainset', 'Chain', and 'Parameters'. Each section has a dropdown menu. The 'Chainset' dropdown is currently empty. The 'Chain' dropdown is currently empty. The 'Parameters' section has a large text area with a JSON icon in the top left corner. At the bottom of the page, there is a 'JSON' button.


12. Click on the “Apply Changes” button to save the changes.
13. Click on the  “Previous” icon to return to the management page.

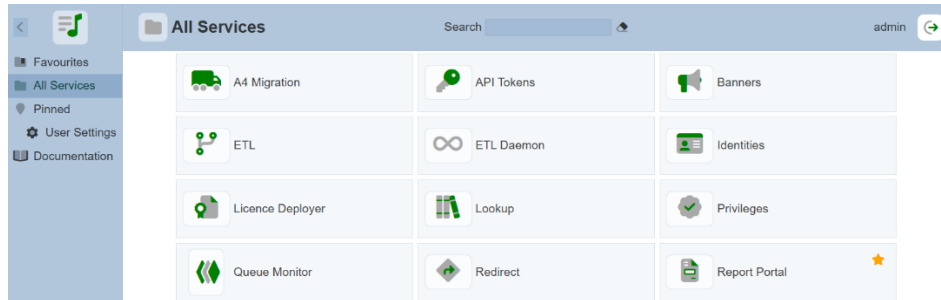
3. Annex

3.1. Add User

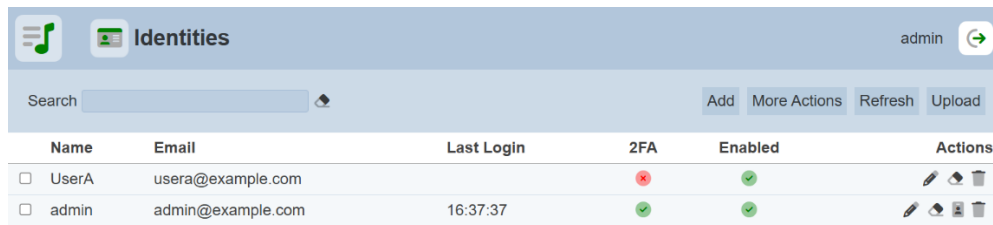
There may be a situation where you need to add a user into Repertoire.











Use the following steps to add a user:

1. Click on the  “Elixir Repertoire” icon on the upper left corner of the page and select “All Services”.

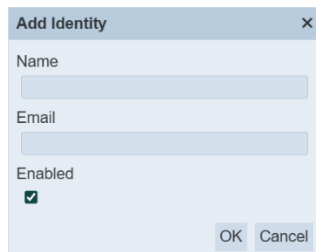


2. In the “Service Chooser” page, select “Identities” in the right panel. The “Identities” page will appear.



| Name | Email | Last Login | 2FA | Enabled | Actions |
|--------------------------------|-------------------|------------|---|---|---|
| <input type="checkbox"/> UserA | usera@example.com | |  |  |    |
| <input type="checkbox"/> admin | admin@example.com | 16:37:37 |  |  |    |

3. To add a new identity, click on the “Add” button on the upper right corner of the page. The “Add Identity” dialog box will appear.



Add Identity ×

Name


Email

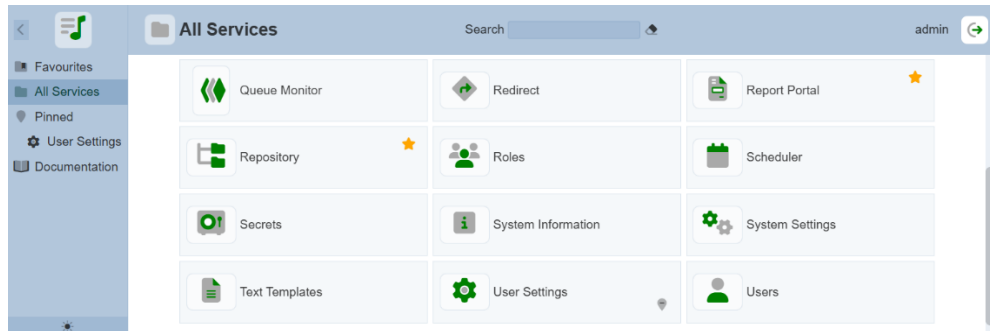
Enabled
☒

OK Cancel

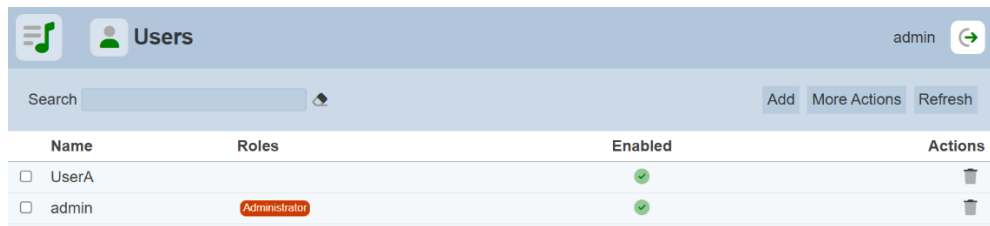
4. In the dialog box, key in and select the following:
 - “Name” field – Key in a unique name
 - “Email” field – Key in the email of the new identity
 - “Enabled” field – Ensure this field is selected
5. Click on the “OK” button in the dialog box.

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6. Click on the  “Elixir Repertoire” icon on the upper left corner of the page and select “All Services”.



7. In the “Service Chooser” page, select “Users” in the right panel. The “Users” page will appear.



8. Click on the “Add” button at the upper right corner of the page.

9. Key in and select the following:
- “Name” field – Unique name created in the Identities module in the “Name” field
 - “Enabled” field – Ensure this field is selected
 - “Roles” tab – Selects the appropriate role for the new user
 - “Extra Privileges” tab – Selects the appropriate privileges
10. Click on the “OK” button in the dialog box.
11. If the email server has been set up, an email will be sent to the new user with a randomly generated password. The new user will need to change the password upon login.

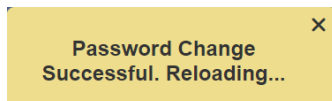
If the email server has not been set up, the random password can be found in a text file in the “/mail” folder in the Repertoire root directory.

3.2. Change Password

For normal users, you will be prompted to change your password on your first log in.

In the “Change Password” section, key in the old password and key in the new password twice. Hit the “Request Password Change” button. A verification panel will appear to request you to key in the validation code.

A validation code will be sent to your email upon successful change password request. Key in the validation code and click on the “Verify Password Change” button. A message will appear to inform you that the password change is successful.




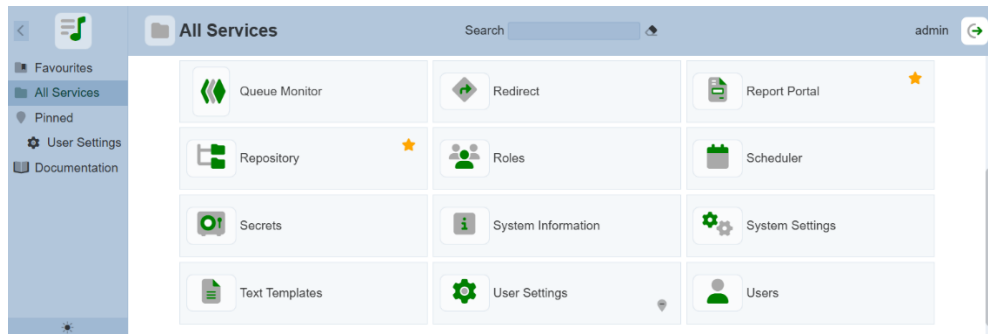
After reloading, the Service Chooser page will appear.

3.3. Setup 2FA

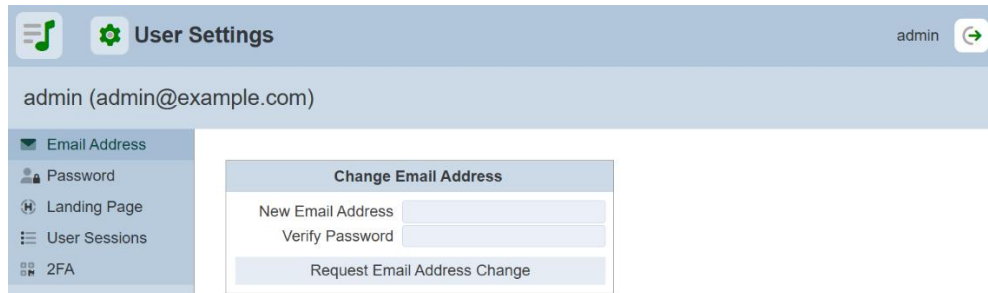
By default, TOTP 2FA is disabled in Repertoire. If it is enabled, users can set up their own TOTP 2FA using the User Settings module.

Use the following steps to setup 2FA:

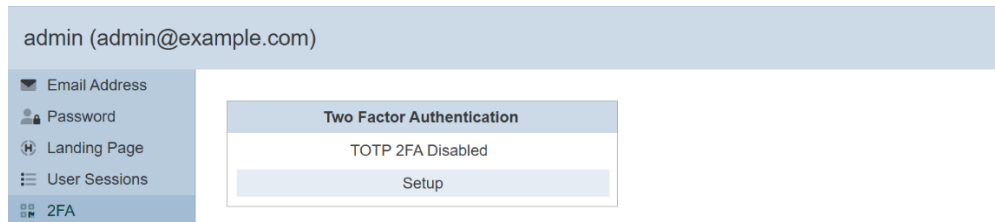
1. Click on the  “Elixir Repertoire” icon on the upper left corner of the page and select “All Services”.



2. In the “Service Chooser” page, select “User Settings” in the right panel. The “User Settings” page will appear.



3. Select “2FA” from the left panel.



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4. In the “Two Factor Authentication” section, click on the “Setup” button to display the QR code.

Two Factor Authentication

Scan the QRCode below with your 2FA TOTP Authenticator and enter the digits produced to confirm correct setup.

This is a time-sensitive operation, so you should ensure the time reported by your device is correct and proceed to confirm immediately.



Manual Code Entry IEDWRN5CSL45MMG2

2FA Verification Code

5. Open any 2FA Authenticator (such as Google Authenticator) on your phone to scan the QR Code. The app will register “*ElixirAmbience (<username>)*” and provides a 6-digit code. This code will change every 30 seconds.

Repertoire provides a minute window for clock drift. Ensure the 2FA app and the Repertoire server is in sync.

6. Enter the 6-digit code as the 2FA Verification Code (with or without) space and click on the “Confirm” button. Once authentication is completed, the “TOTP 2FA Enabled” panel will appear.

admin (admin@example.com)

Email Address

Password

Landing Page

User Sessions

2FA

Two Factor Authentication

TOTP 2FA Enabled

2FA Code

7. If the wrong code (6-digit, less than 6-digit) or no code is entered, the following error messages will appear accordingly.

Invalid verification code

Invalid 2FA Code

2FA Code required

3.4. Disable 2FA

There are two ways to disable 2FA. User can disable it for themselves using User Settings module. Identity administrators can disable 2FA for any user via the Identities module (e.g., if a user has lost their 2FA device). Once the 2FA is disabled or reset, the user will need to set up 2FA again.

3.4.1. User Settings

One way is to use the User Settings module.

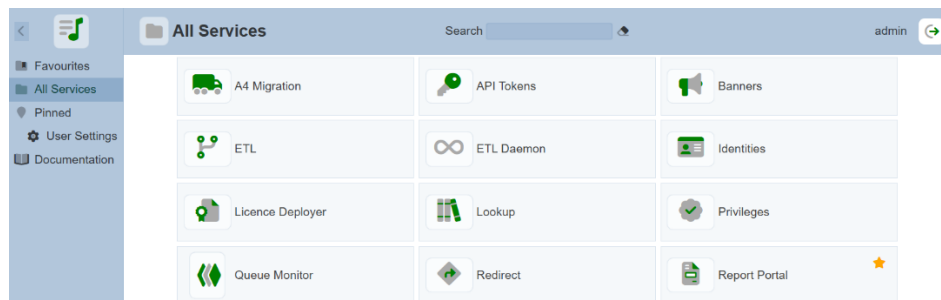
In the “Two Factor Authentication” section, key in the 6-digit code generated from the 2FA Authenticator into the “2FA Code” field and click on the “Disable” button.

3.4.2. Identity

The other method is to use the Identities module.

To disable 2FA, use the following steps:

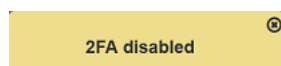
1. Click on the “Elixir Repertoire” icon on the upper left corner of the page and select “All Services”.



2. In the “Service Chooser” page, select “Identities” in the right panel. The “Identities” page will appear.

| Name | Email | Last Login | 2FA | Enabled | Actions |
|-------|-------------------|------------|-----|---------|---------|
| UserA | usera@example.com | | | | |
| admin | admin@example.com | 16:37:37 | | | |

3. Select the “Reset 2FA” icon under the Actions column corresponding the desired user.
4. Upon successful deletion, a notification will appear.



3.5. Configure and Test Mail Server

When identities are added, an email is sent containing a random password. When a user wants to change email or password, a verification is sent via email as well.

If you have not set up an email server, the default behaviour is to store the emails in the “/mail” folder within Repertoire. This is usually for diagnosis or debugging purposes. It is recommended to set up a mail server at the start.

Below are two examples of how to set up a mail server.

Example 1: Uses Gmail

1. Gmail allows only OAuth2 authentication without weakening security. Visit <https://console.developers.google.com/apis/credentials> to set up a “*clientId*” and “*clientSecret*”. Use these to generate a “*refreshToken*”.
2. In the Repertoire oot folder, navigate to the “/etc” folder. Open the “*application.conf*” file using a text editor. In the “*elixir.mail*” section, edit the following with the information obtained earlier accordingly.

```
elixir.mail {
  smtp = "gmail"
  gmail {
    host = "smtp.gmail.com"
    port = 587
    debug = true
    oauth2 {
      userName = "xxx@gmail.com"
      clientId = "XXXX"
      clientSecret = "YYYY"
      refreshToken = "ZZZZ"
    }
  }
}
```

3. After the above is edited in the “*application.conf*” file, start the Repertoire server and go to Identities module to create a user with a valid email address.

Example 2: Uses AWS

1. In the Repertoire root folder, navigate to the “/etc” folder. Open the “*application.conf*” file using a text editor. In the “*elixir.mail*” section, edit the following:

```
elixir.mail {  
  smtp = "aws"  
  aws {  
    from = "user@elixirtech.com"  
    host = "email-smtp.us-west-2.amazonaws.com"  
    dnsResolver = ""  
    port = 465  
    user = "XXXX"  
    password = "YYYY"  
    connectionTimeout = 30000  
    tls = true  
    ssl = true  
    authMechanism = ""  
    debug = false  
  }  
}
```

2. After the above is edited in the “*application.conf*” file, start the Repertoire server and go to Identities module to create a user with a valid email address.