

Chapter 3: Self Service Configuration and Customization

Course Map

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- Lesson 11: Configure User Self-Service
- Lesson 12: Customize the User Interface

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Summary

- Configure Self Service:
 - 1. Self Service Relative URL
 - 2. Outgoing Email
 - 3. Self-registration, password reset, and forgotten username
 - 4. Knowledge-based
- Customize the User Interface
 - 1. Prepare your system for customization
 - 2. Customize the UI theme
 - 3. Customize Self Service screens
- Approximate time: 180 minutes with breaks





Module 11: Configure User Self Service

Module Objectives

Upon completion of this module, you should be able to:

- Configure the self-service URL
- Configure the outbound email service
- Enable email-based self-registration
- Enable email-based password reset
- Enable email-based username retrieval
- Configure Google ReCAPTCHA options to protect from spam and abuse
- Implement knowledge-based authentication password reset



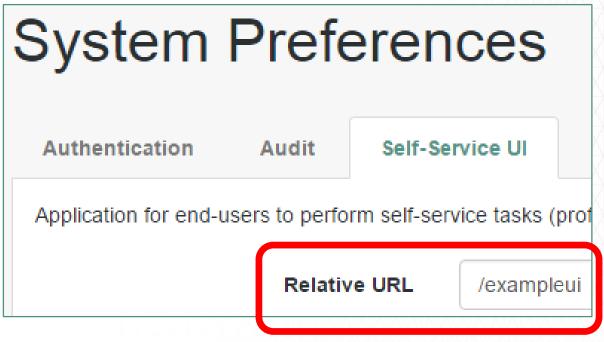
Configuring the Self Service URL

- The Self Service relative URL sets the context root
- For example, a new UI theme can bet set as the context root
- There are two ways to set the relative URL:
 - In the Admin UI
 - In the ui.context-selfservice.json file



Configuring the Relative URL in the Admin UI

- 1. In the Admin UI go to System Preferences, select the Self-Service UI tab
- 2. Enter the relative URL





Setting the Relative URL in the UI Configuration File

- The Relative URL is set in the UI configuration file
- Set the value of urlContextRoot to your relative URL

openidm/conf/ui.context-selfservice.json

```
"enabled" : true, "urlContextRoot" : "/exampleui",
"defaultDir" : "&{launcher.install.location}/ui/...
"extensionDir" : "&{launcher.install.location}/ui..."
}
```



Enable email-based self registration

- Each Self Service function (registration, password reset, and forgotten username) has the option to use email as part of the process
- You can configure an external outgoing email service to use in Self Service

■ Steps:

- Modify an external email configuration file external.email.json
- Modify the Admin UI for email configuration
- Verify with a test email



Modify the External Email Config File

- This class uses FakeSMTP to mimic an SMTP server
- To modify external.email.json:
 - Copy an existing email config file from samples/misc/external.email.json to your openidm directory
 - Modify the file for the parameters required by the server: host, port, auth, starttls
 - Move the file into the openidm/conf directory



Edit external.email.json

- The external email file is initially configured for smtp.google.com
- Change for your SMTP server (FakeSMTP on localhost in this example)

```
"host" : "localhost",
"port" : "2525",
"debug" : false,
"auth" : {
    "enable" : false,
    "username" : "openidm-admin",
    "password" : "openidm-admin"
},
"starttls" : {
    "enable" : false
}
```



Configure Email in the Admin UI

■ Enabling email in the Admin UI creates the conf/external.email.json file

Authorization data is encrypted when the file is created in the

conf directory

System Preferences				
Authentication Audit Self-Se	ervice UI	Email	Update	
Configure the outbound email service				
Enable Email				
Host	localhos	t		
Port	2525			
Sender Email Address				
Use STARTTLS				
Use SMTP Authentication				



Enable Email-based Self Service

- To add email authorization to user registration, password reset, and forgotten password set the appropriate parameters to true in conf/ui-configuration.json
- You can also use the Admin UI
- Once enabled each function generates an email for completion
- Setting to false allows users to complete the function in the UI

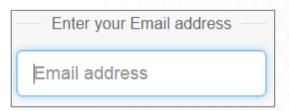
```
"configuration" : {
    "selfRegistration" : true,
    "passwordReset" : true,
    "forgotUsername" : true,
...
```



Example: Forgotten Username

- After enabling Forgotten username and configuring Email, log into Self Service
- Click the Forgot Username link
- Enter a valid email address or other identifying information





```
From: info@admin.org
To: user1@example.com
Message-ID: <550722779.0.1461627727828.JavaMail.name@host>
Subject: Account Information - username
MIME-Version: 1.0
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

<h3>Username is:</h3><br />user1
```



Enable Google reCAPTCHA

- reCaptcha presents users with a graphical image that they must select before proceeding with password reset, user registration, or forgotten username.
- You can configure reCAPTCHA for any or all of the Self Service functions.
- reCAPTCHA requies Google site keys.



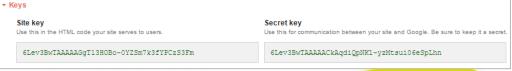


Steps to Enable reCAPTCHA

- 1. Select Enable reCAPTCHA for password reset, user registration, or forgotten username.
- 2. Select Get your reCAPTCHA keys.
- 3. Register the site. You can use localhost/localhost for testing.
- 4. Record your keys and enter in the OpenIDM reCAPTCHA screen.
- 5. Test in the Self Service UI.



Register a new site
Label
localhost
Domains (one per line)
localhost





Knowledge-Based Password Reset

- You can enable security questions for registration, password reset, or forgotten username.
- The OpenIDM Admin enables KBA for user registration or password reset.
- Users craft their own security questions in Self Service Profile/Security Questions.
- An initial set of security questions can be configured by the Admin in selfservice.kba.conf.



Enabling and Configuring KBA

■ To enable KBA, the Admin simply selects KBA Stage:



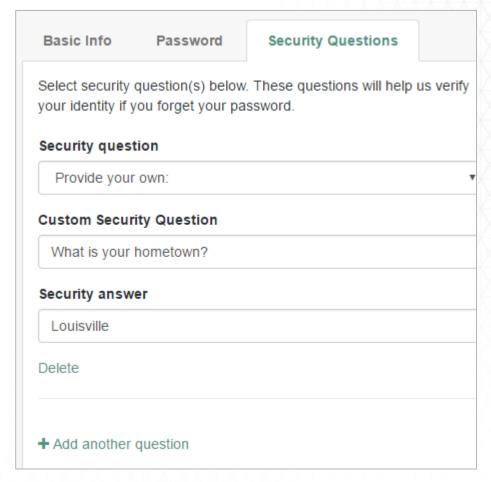
■ The Admin sets initial security questions in conf/selfservice.kba.conf:

```
"kbaPropertyName" : "kbaInfo",
"questions" : {
    "1" : {
        "en" : "What's your favorite color?",
        "en_GB" : "What's your favorite colour?",
        "fr" : "Quelle est votre couleur préférée?"
    },
    "2" : {
        "en" : "Who was your first employer?"
    }
}
```



Configuring Security Questions

- Once KBA is enabled, users can customize questions and answers
- In Self Service go to Profile/Security Questions
- Select Provide your own and then enter your custom question and answer





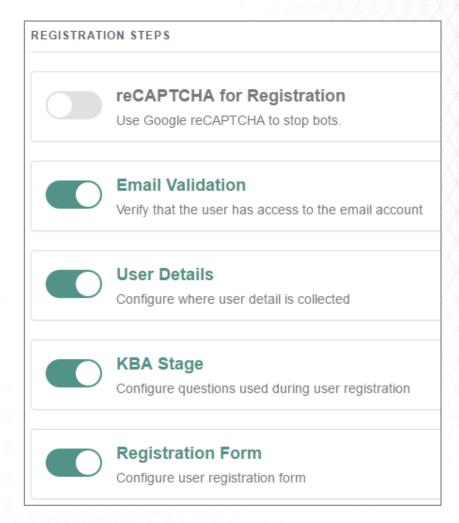
Configure security questions

The Security Question selected and corresponding Answer provided by you will be used to help identify you in the event that you forget your password. What was your fire Security question Forgotten password? Security answer Please enter your login in the field below to continue. bjones Login Security question Enter a PIN 1234567890123456 Security answer **Password** Confirm Password x Confirmation matches password x Cannot be blank x At least 1 capital letters x At least 1 numbers x At least 8 characters x Cannot contain values from: userName,givenName,sn Update



Re-order User Registration Stages

- You can re-order the registration stages that are presented to a user with the Admin GUI.
- To re-order registration steps, go to Configuration/User Registration and drag the steps to the desired order.
- Be careful to ensure the order of stages makes sense to users and does not generate system errors.





Lab: Configure User Self Service

- Perform the following exercises in the Student Workbook:
 - 1. Configure outgoing email
 - 2. Enable email-based self-registration, password reset, and forgotten username lookup
 - 3. Enable Google reCAPTCHA
 - 4. Implement knowledge-based password reset
- Approximate time: 30 minutes



Module 11: Configure user selfservice

End of module





Module 12: Customize the End User Interface

Module Objectives

Upon completion of this module, you should be able to:

- Prepare your system for customization
- Customize the UI theme
- Customize Self Service



Introduction

- The OpenIDM UI is fully customizable for branding and locale
- You can also modify Self Service templates to change theme, branding, and information gathered
- You can apply free/open source themes, logos, and other resources
 - http://www.wrapbootstrap.com
- Customization requires an understanding of HTML, Javascript/jQuery, XML, and other common web development technologies



Preparing OpenIDM for Customization

- Customizations are deployed to an extensions directory for Admin and Self Service
 - Admin: openidm_home/ui/admin/extensions
 - Self Service: openidm_home/ui/selfservice/extension
- OpenIDM automatically looks in the extension directory, if present, for customizations
- Templates are stored in:
 - admin/extensions/default/templates
 - selfservice/extension/default/templates



Setting Up the extension directory

- Change to the ui directory in your OpenIDM project
- Create the extension directory
- Copy contents of the existing selfservice/default directory to the extension directory

```
$ cd /opt/openidm/ui
```

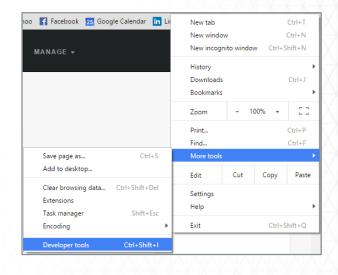
- \$ mkdir selfservice/extension
- \$ cp -r selfservice/default/. extension

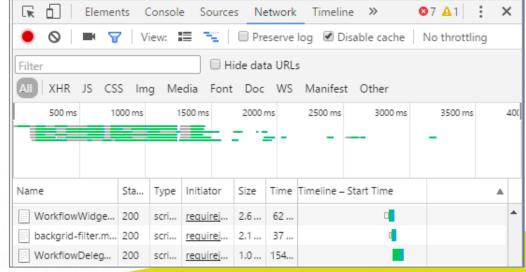


Optional: Use Google Developer Tools to Monitor Customizations

- Start OpenIDM in Chrome, go to Tools/MoreTools/Developer tools
- Select Network tab
- Select Disable Cache
- Monitor activity while working in

OpenIDM







Customize the UI Theme

- You can change the UI theme by copying theme elements to the extension directory and modifying the appropriate files
- This section covers:
 - Changing the logos
 - Changing the UI language
 - Changing account labels



Change the Login Logo

- To change the login logo for Self Service:
 - 1. Copy your logo file to ui/selfservice/extension/images
 - 2. Make a note of the dimensions in pixels
 - 3. Edit the OpenIDM conf/ui-themeconfig.conf file to use the new image:

```
"settings" : {
   "loginLogo" : {
       "src" : "images/logoFR.png",
       "title" : "ForgeRock",
       "alt" : "ForgeRock",
       "height" : "99px",
       "width" : "92px"
   },
```



Change the Self Service Banner Logo

- To change the branding/banner logo for Self Service:
 - 1. Copy your logo file to ui/selfservice/extension/images
 - 2. Edit the OpenIDM conf/ui-themeconfig.conf file to use the new image:

```
"settings" : {
   "logo" : {
      "src" : "images/GuitarScreehshot.png",
      "title" : "ForgeRock",
      "alt" : "ForgeRock"
   },
```



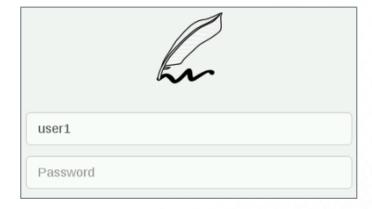
View the Changes

Once your changes are made they are visible in the Self Service UI:

Dashboard



Login





Change the UI Language

- translation.json file defines the language used for text-based UI components
- Each locale has a separate translation.json file
- Translated strings are reflected in the UI
- Use Google Translate to translate strings

```
"LoginTemplate" : {
    "loginRemember" : "Mémoriser mon nom d'utilisateur",
        "noAccountQuestion" : "Ne pas avoir un compte?",
        "registerAccount" : "Registre",
        "problemLoggingQuestion" : "Ayant des problèmes de connexion?",
        "resetPassword" : "Réinitialisez votre mot de passe",
        "loginWithOpenAM": "Connexion avec OpenAM",
        "forgotUsername" : "Identifiant oublié?"
},
...
```



Steps for Changing UI Language

- This example changes the language for the Self Service login page:
- Copy the en (English) locale directory to fr (French)
- Open fr/translation.json and search for LoginTemplate
- 3. Use Google Translate to translate the strings into French
- 4. Search for copyright and translate that
- 5. Edit your project's uiconfiguration.json file, change the lang property to fr

```
$ cd selfservice/extension/locales
$ cp -r en fr
```

```
"loginRemember" : "Remember my username",
```

```
"loginRemember" : "Mémoriser mon nom d'utilisateur",
```

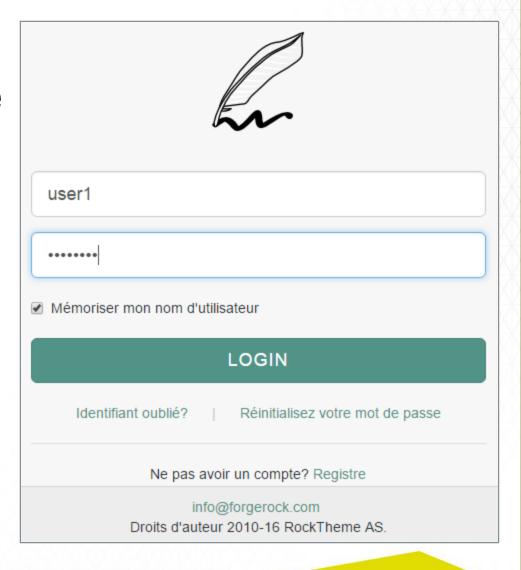
```
"copyright": "Droits d'auteur 2010-
16 RockTheme AS.",
```

```
"lang": "fr",
```



View the Changes in the Self Service UI

- Changes are visible as soon as they are made
- You may need to refresh your browser window





Customize a Template

- Templates can be customized to meet a particular business need
- This example adds an Employee ID field to the user registration screen:
 - Add a new form-group stanza to userDetailsinitial.html
 - Edit translation.json to add the employee ID number field



Add a Form-Group Stanza

- Open userDetailsinitial.html
- 2. Add the Employee ID field:

```
$ cd selfservice/extension/templates/
user/process/registration
$ gedit userDetails-initial.html
```

```
<div class="form-group">
    <label class="sr-only" for="input-employeeNum">{{t'common.user.employeeNum'}}
    </label>
    <input type="text" placeholder="{{t'common.user.employeeNum'}}" id="input-employeeNum" name="user.employeeNum" class="form-control input-lg"/>
    </div>
```



Add the Form to translation.json

- 1. Open translation.json
- 2. Locate the place in the file to add the form information (right after Last Name)
- 3. Enter the form information
- 4. Save and close the file

```
$ cd selfservice/extension/locales/en
$ gedit translation.json
```

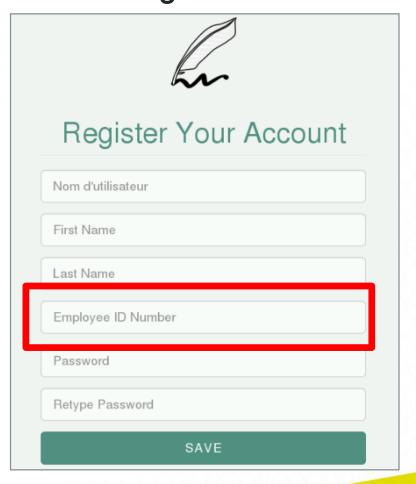
```
"givenName" : "First Name",
"familyName" : "Family Name",
"sn" : "Last Name",
"basicInfo" : "Basic Info",
...
```

```
"givenName" : "First Name",
"familyName" : "Family Name",
"sn" : "Last Name",
"employeeNum" : "Employee ID Number",
"basicInfo" : "Basic Info",
...
```



Modified Template in Self Service

Once your changes are made you see Employee ID added to the self-registration form:





Lab: Customize the User Interface

- Perform the following exercises in the Student Workbook:
 - 1. Prepare your system for customization
 - 2. Customize the UI theme
 - 3. Customize Self Service
- Approximate time: 60 minutes



Module 12: Customize the enduser interface

End of module



Chapter 3: Self-service

End of chapter

