

## 9 - Configuring the SHRINE Data Steward

To configure the Data Steward, you must first make sure that you have created a user with Data Steward privileges. To create a Data Steward, please follow the instructions here:

### [8.3 - Setting up the Data Steward user](#)

After setting up the Data Steward user, you will need to configure the steward section within SHRINE's configuration file - shrine.conf. You must first enable the authorization type to be "shrine-steward" within the queryEntryPoint section and then configure the shrineSteward block as well.



#### Note

Note that we have used the 'qep' user that we have created in Chapter 8.1

```
authorizationType = "shrine-steward"

shrineSteward {
  qepUserName = "qep"
  qepPassword = "password"
  stewardBaseUrl = "https://localhost:6443"
}
```

After templating that section, proceed further down in shrine.conf until you reach the steward section {}. This section governs how the steward application behaves and contains the ability to send audit emails to the Data Steward. Here, please make sure you have a valid email address in the 'From' and 'To' fields.

```

steward {
    createTopicsMode = Approved

    emailDataSteward {
        sendAuditEmails = true //false to turn off the whole works of emailing
    }
    the data steward {
        interval = "1 day" //Audit researchers daily
        timeAfterMidnight = "6 hours" //Audit researchers at 6 am. If the interval is less than 1
        day then this delay is ignored.
        maxQueryCountBetweenAudits = 30 //If a researcher runs more than this many queries since
        the last audit audit her
        minTimeBetweenAudits = "30 days" //If a researcher runs at least one query, audit those
        queries if this much time has passed

        //You must provide the email address of the shrine node system admin, to handle bounces and invalid
        addresses
        from = "shrine-admin@example.com"
        //You must provide the email address of the data steward
        to = "shrine-steward@example.com"

        subject = "Audit SHRINE researchers"
        //The baseUrl for the data steward to be substituted in to email text. Must be supplied if it is used in
        the email text.
        stewardBaseUrl = "https://localhost:8443/steward/"

        //Text to use for the email audit.
        //AUDIT_LINES will be replaced by a researcherLine for each researcher to audit.
        //STEWARD_BASE_URL will be replaced by the value in stewardBaseUrl if available.
        emailBody = ""Please audit the following users at STEWARD_BASE_URL at your earliest convenience:
AUDIT_LINES""
        //note that this can be a multiline message

        //Text to use per researcher to audit.
        //FULLNAME, USERNAME, COUNT and LAST_AUDIT_DATE will be replaced with appropriate text.
        researcherLine = "FULLNAME (USERNAME) has run COUNT queries since LAST_AUDIT_DATE."
    }
}

database {
    dataSourceFrom = "JNDI"
    jndiDataSourceName = "java:comp/env/jdbc/stewardDB"
    slickProfileClassName = "slick.jdbc.MySQLDriver$"
        //slick.driver.MySQLDriver$
        //slick.driver.PostgresDriver$
        //slick.driver.SQLServerDriver$
        //slick.driver.OracleDriver$
        //slick.driver.MSSQLServerProfile$
    }
} // end steward

```



If you wish to not send emails, you can simply switch `sendAuditEmails = false` in this section.

Also, please make sure that you have the email {} section populated in **shrine.conf**. SHRINE sends emails from postfix on port 25 by default, but you can use another service if you want. For example, we have listed AWS SES as an alternative way:

```

email {
    //add javax mail properties from https://www.tutorialspoint.com/javamail_api/javamail_api_smtp_servers.htm
    here
    javaxmail {
        mail {
            smtp {
                //for postfix on localhost
                //comment out if you want to use an alternative host and port
                //host = localhost
                //port = 25

                //for AWS SES - See http://docs.aws.amazon.com/ses/latest/DeveloperGuide/send-using-smtp-java.html
                //comment out if you want to just use postfix over port 25
                host = email-smtp.us-east-1.amazonaws.com
                port = 25
                transport.protocol = smtps
                auth = true
                starttls.enable = true
                starttls.required = true
            }
        }
    }

    //Must be set for AWS SES. See http://docs.aws.amazon.com/ses/latest/DeveloperGuide/send-using-smtp-java.html
    authenticator {
        username = yourSESUsername
        password = yourSESPassword
    }
} //end email section

```