

# Customize eagle-i Repository

The following assumes that you are in the **SSH** terminal connected to your **EC2** instance.

## 1. Stop the running tomcat instance

1. Go to the tomcat directory
  - `cd /opt/apache-tomcat-7.0.39/`
2. Stop tomcat using the shutdown wrapper script
  - `sudo -su tomcat bin/shutdownwrapper.sh`
3. Verify tomcat has been shutdown
  - `ps aux | grep tomcat`

### Shutdown tomcat

```
[root@ip-172-31-54-208 log]# cd /opt/apache-tomcat-7.0.39/
[root@ip-172-31-54-208 apache-tomcat-7.0.39]# sudo -su tomcat bin/shutdown.sh
Using CATALINA_BASE:   /opt/apache-tomcat-7.0.39
Using CATALINA_HOME:   /opt/apache-tomcat-7.0.39
Using CATALINA_TMPDIR: /opt/apache-tomcat-7.0.39/temp
Using JRE_HOME:        /opt/jdk1.8.0_66
Using CLASSPATH:       /opt/apache-tomcat-7.0.39/bin/bootstrap.jar:/opt/apache-tomcat-7.0.39/bin/tomcat-juli.jar
[root@ip-172-31-54-208 apache-tomcat-7.0.39]# ps aux | grep tomcat
root      1646  0.0  0.0 103312   876 pts/0    S+   13:02   0:00 grep tomcat

#### The following means that tomcat is still running ####
tomcat    1674  93.2 11.4 3599164 116800 pts/0    Sl   13:08   0:03 /opt/jdk1.8.0_66/bin/java -Djava.util.logging.
config.file=/opt/apache-tomcat-7.0.39/conf/logging.properties
-Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -Xmx1536m -XX:+PrintGCDetails
-Xloggc:/opt/apache-tomcat-7.0.39/logs/tomcat-gc.log -Djava.endorsed.dirs=/opt/apache-tomcat-7.0.39/endorsed
-classpath /opt/apache-tomcat-7.0.39/bin/bootstrap.jar:/opt/apache-tomcat-7.0.39/bin/tomcat-juli.jar
-Dcatalina.base=/opt/apache-tomcat-7.0.39 -Dcatalina.home=/opt/apache-tomcat-7.0.39
-Djava.io.tmpdir=/opt/apache-tomcat-7.0.39/temp org.apache.catalina.startup.Bootstrap start
```

## 2. Modify configuration.properties for the repository

1. Go to the repository home directory
  - `cd ${REPO_HOME}`
2. Open configuration.properties file in a text editor of your choice
  - `vim configuration.properties`
3. The following property must be set for your eagle-i node
  - `eaglei.repository.namespace`
4. The following properties should be set for proper display of the interface
  - `eaglei.repository.title`
  - `eaglei.repository.logo`
5. Save the changes.

### Edit repository properties

```
[root@ip-172-31-54-208 ~]# cd ${REPO_HOME}
[root@ip-172-31-54-208 repo]# vim configuration.properties

##### configuration.properties file #####
eaglei.repository.namespace = http://ec2-54-175-59-6.compute-1.amazonaws.com/i/
eaglei.repository.title = AMI Test Repository
eaglei.repository.logo = https://alaska.qa.eagle-i.net:8443/sweet/images/eaglei-medium-blue.png
```

## 3. Prepare the repository for customization

1. Go to the repository home directory
  - `cd ${REPO_HOME}`
2. Delete the existing derby database
  - `rm -fr db/`
3. Run the prepare-install script in the etc directory. Replace `REPOADMIN` and `REPOADMINPW` with the credentials for the repository administrator.
  - `bash etc/prepare-install.sh REPOADMIN REPOADMINPW ${REPO_HOME}`
4. Modify the ownership of the derby database to be owned by the tomcat user
  - `chown -R tomcat:tomcat db/`

#### Prepare repository

```
[root@ip-172-31-54-208 sparqler]# cd ${REPO_HOME}
[root@ip-172-31-54-208 repo]# rm -r db/
[root@ip-172-31-54-208 repo]# bash etc/prepare-install.sh ami-admin-user ami-admin-pw ${REPO_HOME}
_RUNJAVA set to "/opt/jdk1.8.0_66/jre/bin/java"
java version "1.8.0_66"
Java(TM) SE Runtime Environment (build 1.8.0_66-b17)
Java HotSpot(TM) 64-Bit Server VM (build 25.66-b17, mixed mode)

---all superuser logins---
ami-admin-user
[root@ip-172-31-54-208 repo]# chown -R tomcat:tomcat db/
```

## 4. Start tomcat

1. Go to the tomcat directory
  - `cd /opt/apache-tomcat-7.0.39/`
2. Start tomcat using the startup wrapper script
  - `sudo -su tomcat bin/startupwrapper.sh`
3. Wait for tomcat to finish startup.

#### Start tomcat

```
[root@ip-172-31-54-208 opt]# cd apache-tomcat-7.0.39/
[root@ip-172-31-54-208 apache-tomcat-7.0.39]# sudo -su tomcat bash bin/startupwrapper.sh
Waiting for Tomcat to startup ...
Tomcat startup finished in ~120 seconds
```

## 5. Finish the repository customization

1. Go to the repository home directory
  - `cd ${REPO_HOME}`
2. Run the finish install script in the etc directory. Replace `REPOADMIN` and `REPOADMINPW` with the credentials for the repository administrator.
  - `bash etc/finish-install.sh REPOADMIN REPOADMINPW repository-url-prefix`
3. Run the upgrade script in the etc directory. Replace `REPOADMIN` and `REPOADMINPW` with the credentials for the repository administrator.
  - `bash etc/upgrade.sh REPOADMIN REPOADMINPW repository-url-prefix`

## Finish repo

```
[root@ip-172-31-54-208 sparqler]# cd ${REPO_HOME}
[root@ip-172-31-54-208 repo]# bash etc/finish-install.sh ami-admin-user ami-admin-pw https://ec2-54-175-59-6.compute-1.amazonaws.com
User metadata created.
Updating data model ontology from jar, please wait...
Updated data model ontology from jar.
[root@ip-172-31-54-208 repo]# bash etc/upgrade.sh ami-admin-user ami-admin-pw https://ec2-54-175-59-6.compute-1.amazonaws.com

***** Checking and Upgrading Repository's Internal Graphs

INFO: Skipping, internal graph is already up to date: http://eagle-i.org/ont/repo/1.0/
INFO: Skipping, internal graph is already up to date: http://eagle-i.org/ont/repo/1.0/NG_Query

.....lots of output and stuff here .....

OK - specials all succeeded.
rm -rf /tmp/repo-upgrade-9784
```

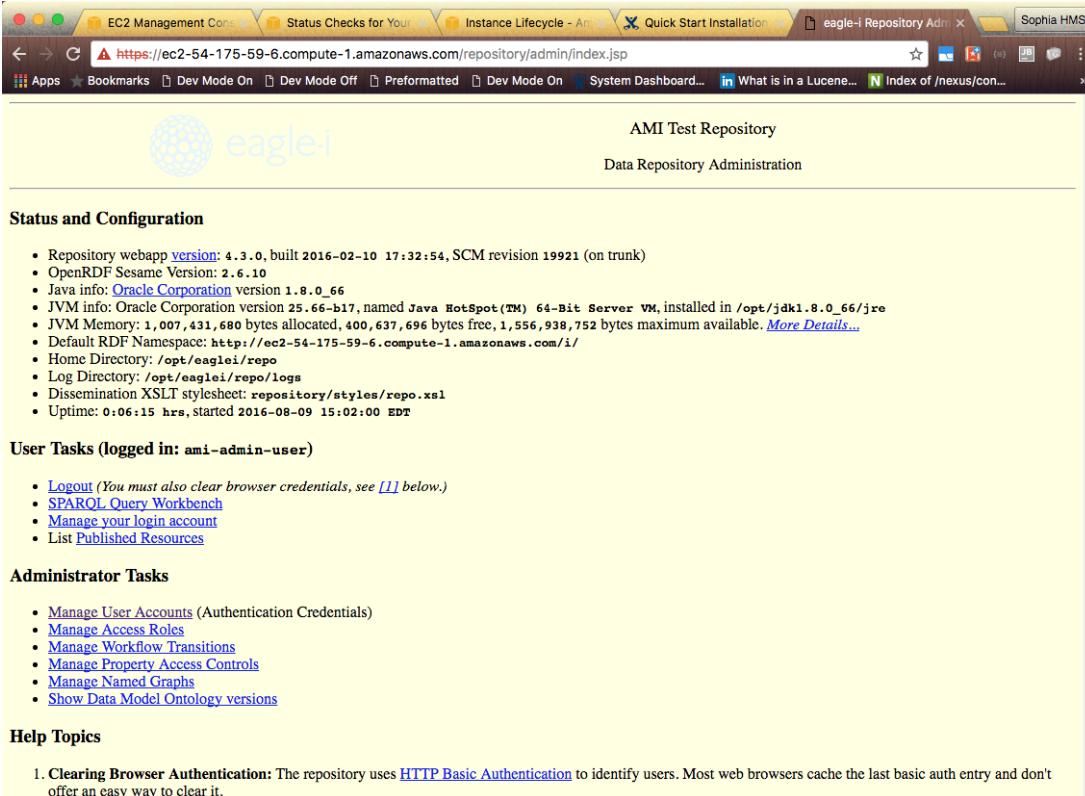
## 6. Verify repository has been customized correctly

In a browser, navigate to the repository admin console and log in using the repository administrator credentials.

### Evaluation Node

For an un-customized **EVALUATION/DEVELOPMENT NODE**, the default repository credentials are:

- username: srau
- password: srap



The screenshot shows a web browser window displaying the 'eagle-i' AMI Test Repository administration interface. The page has a yellow background and contains the following sections:

- Status and Configuration:** A list of system details including version (4.3.0), OpenRDF Sesame Version (2.6.10), Java info (Oracle Corporation version 1.8.0\_66), JVM info (Oracle Corporation version 25.66-b17), JVM Memory (1,007,431,680 bytes allocated, 400,637,696 bytes free), Default RDF Namespace (http://ec2-54-175-59-6.compute-1.amazonaws.com/i/), Home Directory (/opt/eaglei/repo), Log Directory (/opt/eaglei/repo/logs), Dissemination XSLT stylesheet (repository/styles/repo.xsl), and Uptime (0:06:15 hrs, started 2016-08-09 15:02:00 EDT).
- User Tasks (logged in: ami-admin-user):** A list of links for Logout, SPARQL Query Workbench, Manage your login account, and List Published Resources.
- Administrator Tasks:** A list of links for Manage User Accounts, Manage Access Roles, Manage Workflow Transitions, Manage Property Access Controls, Manage Named Graphs, and Show Data Model Ontology versions.
- Help Topics:** A list of links for Clearing Browser Authentication, HTTP Basic Authentication, and other topics.