

# 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 the 'eagle-i' AMI Test Repository Data Repository Administration interface. The page is titled 'AMI Test Repository' and 'Data Repository Administration'. It includes a 'Status and Configuration' section with details about the repository webapp 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, 1,556,938,752 bytes maximum available), 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). It also has a 'User Tasks (logged in: ami-admin-user)' section with links for Logout, SPARQL Query Workbench, Manage your login account, and List Published Resources. The 'Administrator Tasks' section includes links for Manage User Accounts, Manage Access Roles, Manage Workflow Transitions, Manage Property Access Controls, Manage Named Graphs, and Show Data Model Ontology versions. The 'Help Topics' section includes a link for Clearing Browser Authentication.

**Status and Configuration**

- Repository webapp [version](#): 4.3.0, built 2016-02-10 17:32:54, SCM revision 19921 (on trunk)
- OpenRDF Sesame Version: 2.6.10
- Java info: [Oracle Corporation](#) version 1.8.0\_66
- JVM info: Oracle Corporation version 25.66-b17, named Java HotSpot(TM) 64-Bit Server VM, installed in /opt/jdk1.8.0\_66/jre
- JVM Memory: 1,007,431,680 bytes allocated, 400,637,696 bytes free, 1,556,938,752 bytes maximum available. [More Details...](#)
- 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
- Uptime: 0:06:15 hrs, started 2016-08-09 15:02:00 EDT

**User Tasks (logged in: ami-admin-user)**

- [Logout](#) (You must also clear browser credentials, see [\[1\]](#) below.)
- [SPARQL Query Workbench](#)
- [Manage your login account](#)
- List [Published Resources](#)

**Administrator Tasks**

- [Manage User Accounts](#) (Authentication Credentials)
- [Manage Access Roles](#)
- [Manage Workflow Transitions](#)
- [Manage Property Access Controls](#)
- [Manage Named Graphs](#)
- [Show Data Model Ontology versions](#)

**Help Topics**

1. **Clearing Browser Authentication:** The repository uses [HTTP Basic Authentication](#) to identify users. Most web browsers cache the last basic auth entry and don't offer an easy way to clear it.