

# SBAC OpenAM Installation Instructions

## Prerequisites:

- Linux Operating System
  - Linux (tested with Ubuntu Linux 64-Ubuntu SMP Mon Mar 25 21:42:18 UTC 2013 x86\_64 x86\_64 x86\_64 GNU/Linux)
  - 16GB RAM
  - 630GB Disk Space
  - 6 virtual CPUs
  - Virtual Servers (tested as Amazon EC2 instances or as Rackspace virtual servers)
  - Ports 1689, 4444, 8005, 8080, 9999, 50389, and 50889 available
  - Fully qualified hostname(s) of all OpenAM servers listed in either a) DNS or b) the `/etc/hosts` file.
- Software
  - Required Software:
    - `unzip (apt-get install unzip)`
  - Java Version
    - java version "1.6.0\_45"
    - Java(TM) SE Runtime Environment (build 1.6.0\_45-b06)
    - Java HotSpot(TM) 64-Bit Server VM (build 20.45-b01, mixed mode)

If this specific version of java is not installed, install it with these steps:

```
# apt-get install software-properties-common
# add-apt-repository ppa:webupd8team/java
# apt-get update
# apt-get install oracle-java6-installer
```

- Access to OpenAM Installation File (`sbacOpenAM-Installv1.tar.gz`)
- OpenDJ user repository is set up and you have the name or IP address of the load balancer that sits in front of it.
- Load balancer for OpenAM is set up on port 443 on the front end and 8080 on the back end, does SSL termination, has cookie based stickiness enabled, and uses the OpenAM provided `isAlive.jsp` for health monitoring.
- A mail server that does not require SMTP authentication

## Installation Steps:

1. Log in to your Linux server as the root user (or `sudo` to root).
2. Download a copy of the `sbacOpenAM-Installv1.tar.gz` and place it in `/tmp`.

```
# wget https://www.dropbox.com/s/zgmcrk9b5foq8t6/sbacOpenAM-Installv1.zip
```

3. Unzip the OpenAM into the /opt folder.

```
# cd /opt
# unzip /tmp/sbacOpenAM-Installv1.zip
Archive:  /tmp/sbacOpenAM-Installv1.zip
  creating: artifacts/
  creating: artifacts/configfiles/
  creating: artifacts/templates/
  inflating: artifacts/templates/iPlanetAMAuthService_info.txt
  inflating: artifacts/templates/config.txt
  inflating: artifacts/templates/datastore_info.txt
  inflating: artifacts/templates/authModule_info.txt
  inflating: artifacts/templates/IDP_metadata.xml
  inflating: artifacts/templates/iPlanetAMPASSWORDResetService_info.txt
  inflating: artifacts/templates/IDP_extended_metadata.xml
  inflating: artifacts/templates/add_config.txt
  extracting: artifacts/openamtools.zip
  extracting: artifacts/tomcat.zip
  inflating: installOpenAM.sh
  inflating: removeOpenAM.sh
```

Execute the installation script.

```
# ./installOpenAM.sh
```

4. The script will guide you through the installation process. You will be prompted for input as necessary. A successful execution of this script creates the following production folders:
  - /opt/tomcat (tomcat installation directory where openam is deployed)
  - /opt/openam (openam configuration directory)
  - /opt/openamtools (openam install and configuration tools directory)
5. Repeat steps 1 – 4 on all servers where you would like to install OpenAM. Note that subsequent installs will be slightly different as subsequent servers will join the configuration of the first instance.

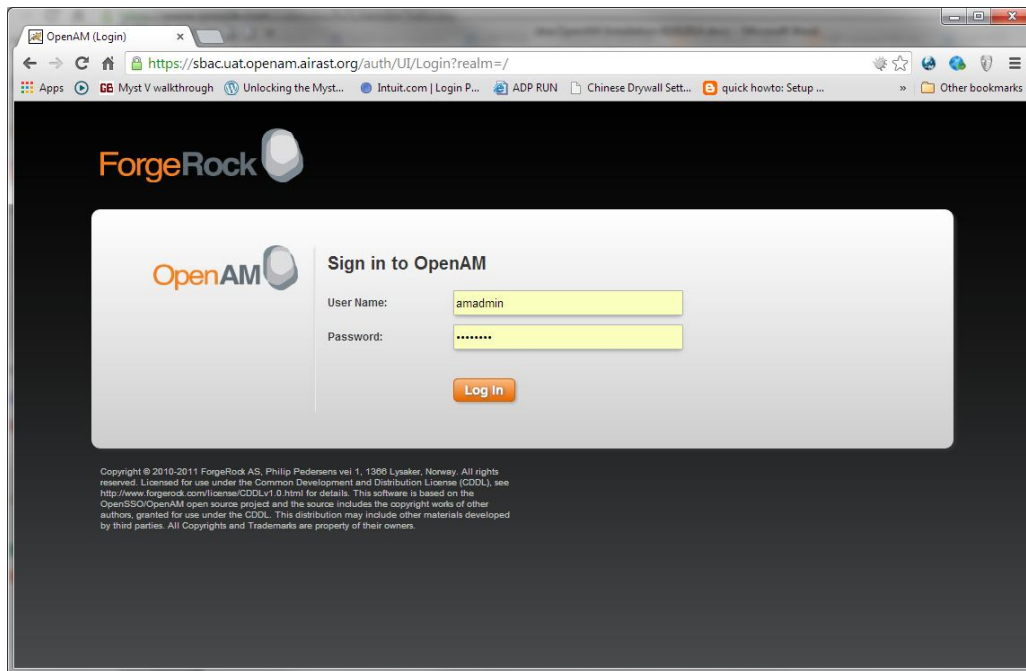
This completes the installation process for the SBAC OpenAM servers. The next step is to create policy agent profiles as necessary.

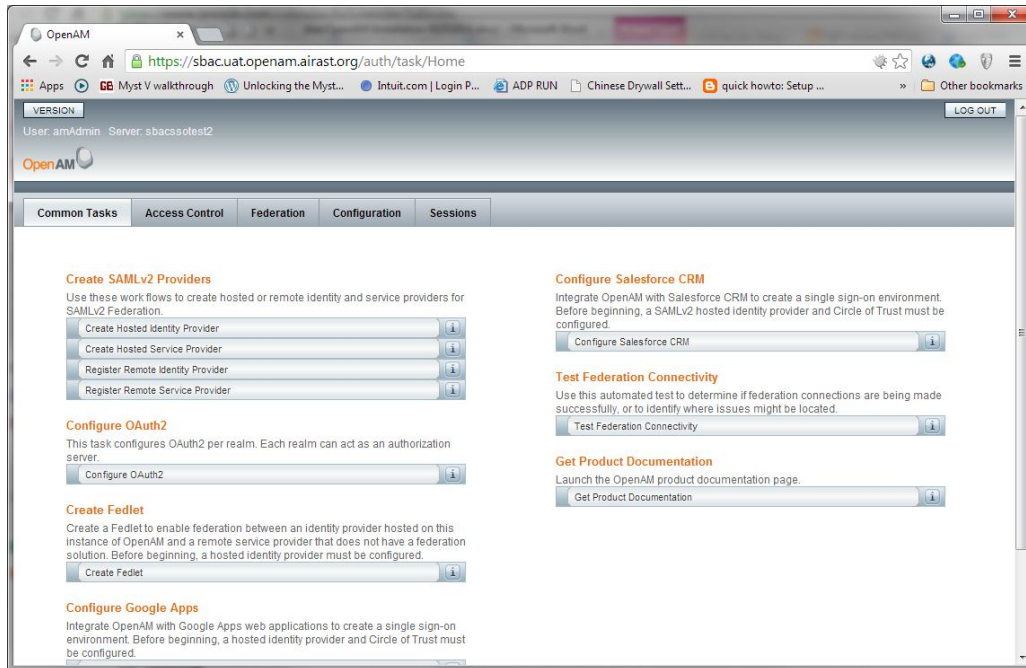
## Policy Agent Profile Creation Steps:

Note – The following procedure is for creating a Web agent profile that does not require Cross Domain Single Sign On (CDSSO).

1. Log in to the OpenAM administration console as amadmin and the password you created for that user:

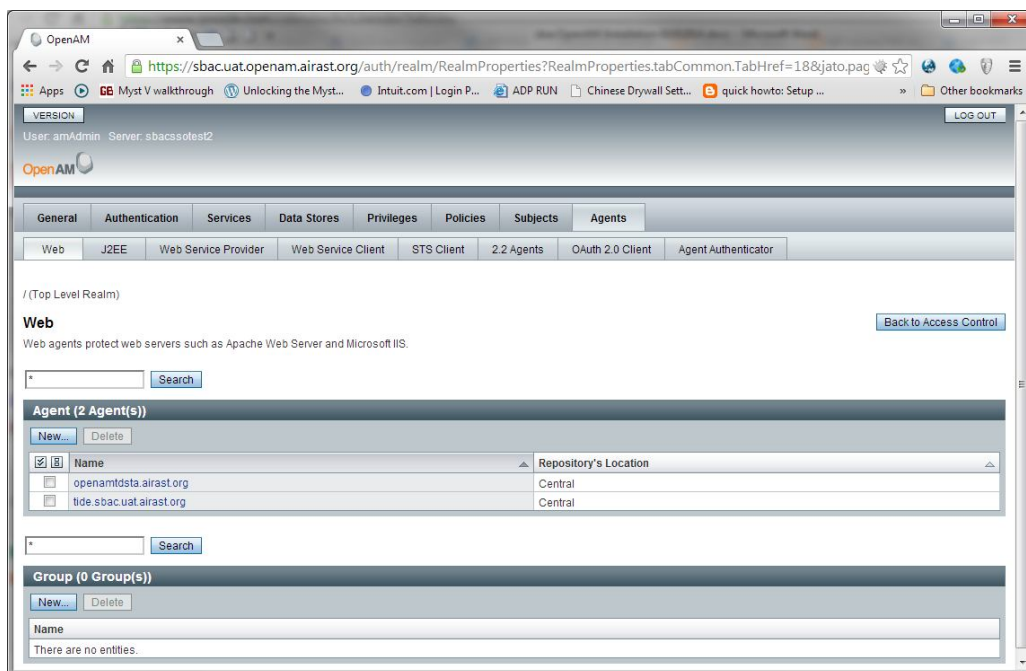
[https://your\\_load\\_balancer-fqdn/auth/UI/Login?realm=/](https://your_load_balancer-fqdn/auth/UI/Login?realm=/)





## 2. Navigate to the Web Agents section

Access Control -> / (Top Level Realm) -> Agents



## 3. Click New...

## 4. Fill out the form as follows:

- **Name:** FQDN of the system where the agent will be installed
- **Password:** Password for this agent profile

- **Re-Enter Password:** Repeat password
- **Configuration:** Leave Centralized selected
- **Server URL:** Full load balancer URL to the OpenAM server including port number and /auth application URI.
- **Agent URL:** URL including port of the system where the agent will be installed. Note – No trailing / on the end of the URL.

The screenshot shows the OpenAM web interface in a browser window. The address bar displays <https://sbacuat.openam.airast.org/auth/agentconfig/Agents>. The page header includes the OpenAM logo and a user session bar showing 'User: amAdmin Server: sbacstest2' and a 'LOG OUT' button. The main content area is titled 'New Web' and contains a form for creating a new web agent. The form includes fields for Name, Password, and Re-Enter Password, each marked with an asterisk to indicate they are required. Below these is a 'Configuration' section with radio buttons for 'Local' and 'Centralized', with 'Centralized' selected. A note explains that 'Local' is the server where the agent runs, while 'Centralized' is the OpenAM server. The 'Server URL' field is pre-filled with 'https://sbacuat.openam.airast.org:443/auth' and includes a hint about the protocol and port. The 'Agent URL' field is pre-filled with 'http://ssoagent.airast.org:80' and includes a hint about the protocol and port. 'Create' and 'Cancel' buttons are at the top right of the form area.

**OpenAM**

VERSION

User: amAdmin Server: sbacstest2

**New Web**

Create Cancel

\* Indicates required field

\* Name:

\* Password:

\* Re-Enter Password:

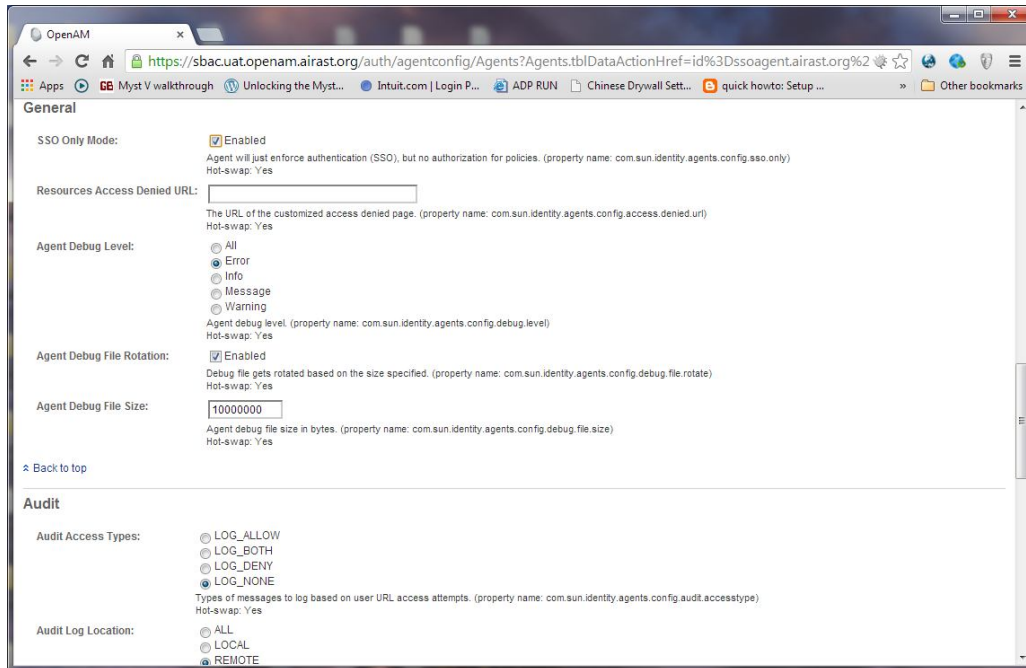
Configuration: ☐ Local ☒ Centralized

Where agent properties are stored. Local is the server on which the agent is running. Centralized is the OpenAM Server

\* Server URL:   
protocol://host:port/deploymentUri e.g. http://openso.sample.com:58080/openso

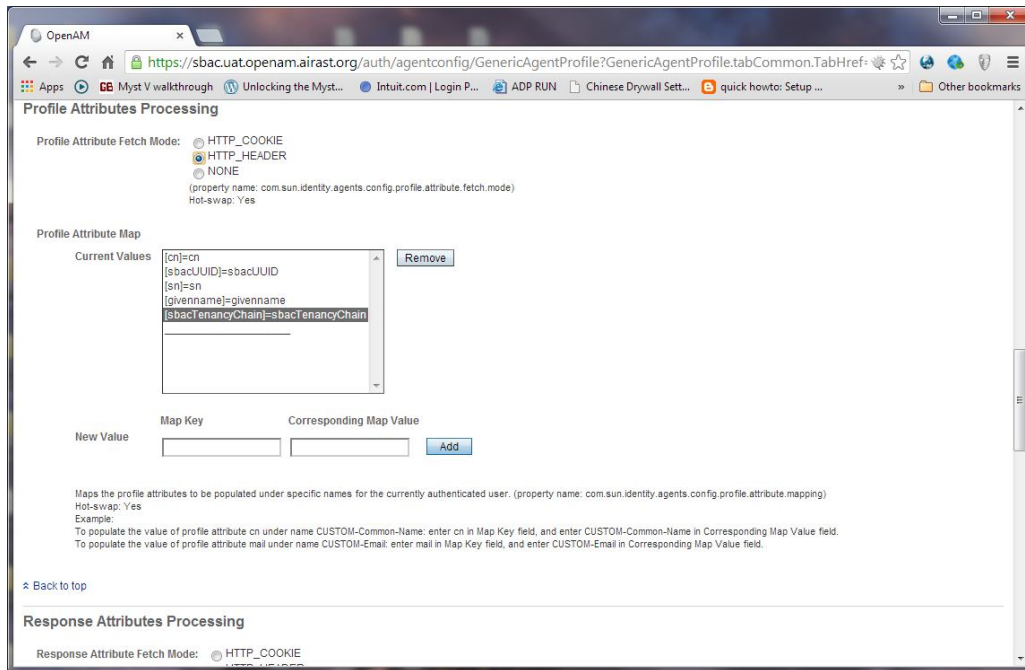
\* Agent URL:   
protocol://host:port e.g. http://agent1.sample.com:1234

5. Click the link to the agent profile name you just created.
6. In the Global tab click the General link.
7. Enable the SSO Only Mode option by clicking the checkbox.

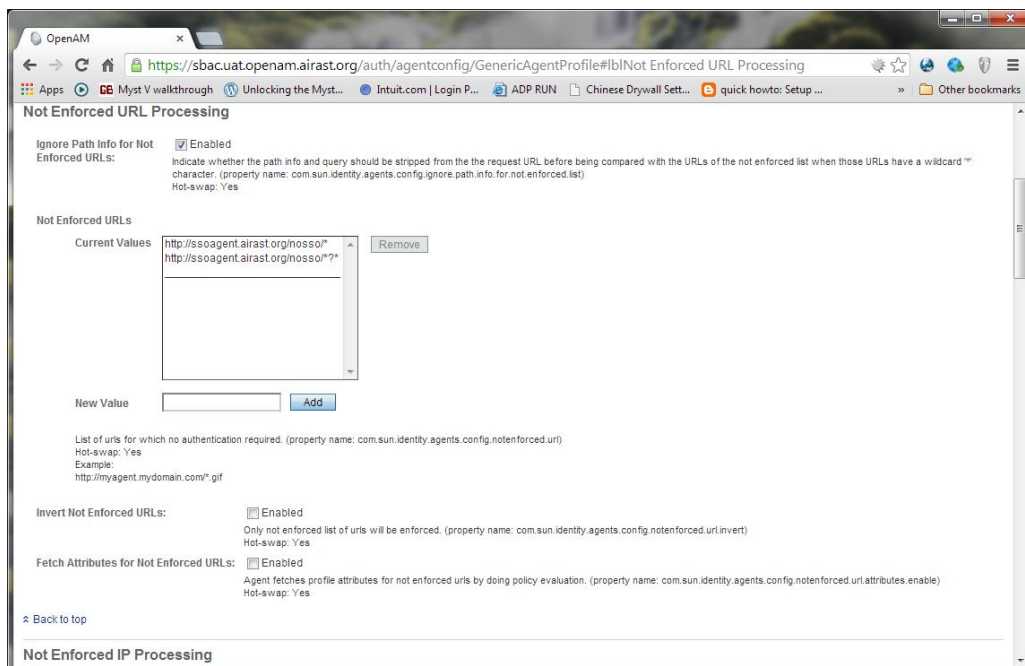


8. Click the Back to top link.
9. Click the Save button.
10. Click the Application tab
11. Click the Profile Attributes Processing link
12. Complete this section as follows:
  - **Profile Attribute Fetch Mode:** Select HTTP\_Header
  - **Profile Attribute Map:** Add the following 5 attributes clicking the Add button for each.

Map Key	Corresponding Map Value
cn	cn
sbacUUID	sbacUUID
sn	sn
givenname	givenname
sbacTenancyChain	sbacTenancyChain



13. Click the Back to top link
14. Click the Save button
15. Click the Not Enforced URL Processing link.
16. If there are specific URLs on the system that you do not want the Agent to enforce SSO on, list those urls in the Not Enforced URLs box. You can use the "\*" wildcard in your URLs and that translates to zero or characters except the "?" character. If the URLs that you don't want to enforce may contain GET parameters then you will need two entries in the Not Enforced URLs box as shown in the screen shot below.



17. Click the `back to top` link
18. Click the `Save` button.
19. Click `LOG OUT` button.
20. You can now install the agent binary on the web server using the parameters you specified during the agent profile creation.

## OpenAM Removal Steps

If you made a mistake during your installation you can completely remove OpenAM and supporting files by performing the following:

1. Run the `removeOpenAM.sh` script

```
# cd /opt
# ./removeOpenAM.sh
```

This script will:

- a. Shutdown tomcat (if tomcat is not running you will see a java stack trace which is normal)
  - b. Remove the `/opt/artifacts`, `/opt/openamtools`, `/opt/tomcat` directories and the `installOpenAM.sh` script. The `/opt/openam` directory will remain but all contents under it will be deleted.
2. Delete the `/opt/removeOpenAM.sh` script
  3. You may then repeat the installation process.

## Cleanup Steps:

After a successful installation you can remove some files that were used only during installation.

1. Log in to each of the Linux servers where you installed OpenAM.
2. Manually remove the following installation files/folders.

```
# rm -rf /opt/artifacts
# rm /opt/installOpenAM.sh
# rm /opt/removeOpenAM.sh (you may keep this script if you like, but be careful as there is no confirmation asked when running it. If you run it, OpenAM is removed from the system as described above)
```

**This completes the installation and configuration process**



## Startup and Shutdown Steps:

After a successful installation tomcat will be running and OpenAM available. The script does not create run control scripts for automatic startup and shutdown of tomcat.

To shutdown tomcat run:

```
# /opt/tomcat/bin/shutdown.sh
```

To start tomcat run:

```
# su - openam -c /opt/tomcat/bin/startup.sh
```

Note: Tomcat must run as the openam user in order for OpenAM to run. Running tomcat as any other user will display a "Configuration Options" page.

It is advisable that you create a run control script to automatically start and stop tomcat upon system startup and shutdown. Just make sure you point your run control script uses these commands.

## Installation Details (First OpenAM Instance):

The following demonstrates the details contained in the `installOpenAM.sh` script.

```
root@sbacssotest1:/opt# ./installOpenAM.sh
```

The following is the output from the `installOpenAM.sh` script.

Note: A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 1: System Verification
*
* In this phase, the script will verify the existing Linux environment.
*
*****
Hit the <ENTER> key to continue

Verifying identity of current user...
CONFIRMED: You are executing this script as: root

Verifying the current working directory...
CONFIRMED: You are executing this script from the /opt folder

Searching for the current version of Java...
/usr/bin/java
CONFIRMED: The java executable was found in the PATH variable
CONFIRMED: You are running java version 1.6.0_45

Checking for the existence of the openam user...
CONFIRMED: The openam user exists.

Checking to see if /opt/tomcat already exists...
/opt/tomcat does not exist

CONFIRMED: This is a new installation.

Hit the <ENTER> key to continue
```

Note: A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 2: Gather configuration info
*
* In this phase, the script will collect data from you that will be
* needed to perform the installation and configuration of the system.
*
*****

Choose a password for the amadmin user:
Enter the password for the amadmin user (again):
```

Enter the Fully Qualified Domain Name (FQDN) of this system (Ex. server.co.com):  
sbacssotest1.uat.openam.airast.org

Is this the first instance of OpenAM you are deploying (yes/no) : yes

Will this instance be deployed behind a load balancer as part of a site configuration? (yes/no) :  
yes

Enter the load balancer URL (Ex. https://server.co.com:443/auth):  
https://sbac.uat.openam.airast.org:443/auth

Enter LDAP load balancer FQDN or IP Address (Ex. ldap.co.com or xx.xx.xx.xx): 10.183.253.106

Enter the password for the "cn=SBAC Admin" user:  
Enter the password for the "cn=SBAC Admin" user (again):

Enter your mail server FQDN or IP Address (Ex. ldap.co.com or xx.xx.xx.xx): smtp1.airast.org

Enter your mail server SMTP port (Ex. 25): 25

**Note:** A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 3: Extraction of Tomcat and OpenAM Tools
*
* In this phase, the script will extract tomcat and start it up with the
* SBAC-Specific OpenAM war deployed.
*
*****
Hit the <ENTER> key to continue
```

Extracting the tomcat binary w/OpenAM war included...

```
Archive:  /opt/artifacts/tomcat.zip
  creating: tomcat/
  creating: tomcat/lib/
 inflating: tomcat/lib/jasper-el.jar
 inflating: tomcat/lib/jasper.jar
 inflating: tomcat/lib/tomcat-il8n-fr.jar
 inflating: tomcat/lib/tomcat-dbcp.jar
 inflating: tomcat/lib/catalina-ant.jar
 inflating: tomcat/lib/tomcat-coyote.jar
 inflating: tomcat/lib/el-api.jar
 inflating: tomcat/lib/tomcat-il8n-es.jar
 inflating: tomcat/lib/tomcat-util.jar
 inflating: tomcat/lib/tomcat-il8n-ja.jar
 inflating: tomcat/lib/tomcat-api.jar
 inflating: tomcat/lib/catalina.jar
 inflating: tomcat/lib/ecj-4.2.2.jar
 inflating: tomcat/lib/servlet-api.jar
 inflating: tomcat/lib/annotations-api.jar
 inflating: tomcat/lib/tomcat-jdbc.jar
 inflating: tomcat/lib/catalina-tribes.jar
 inflating: tomcat/lib/jsp-api.jar
 inflating: tomcat/lib/catalina-ha.jar
  creating: tomcat/temp/
 extracting: tomcat/temp/safeToDelete.tmp
  creating: tomcat/conf/
```

```
inflating: tomcat/conf/logging.properties
inflating: tomcat/conf/server.xml
inflating: tomcat/conf/catalina.properties
inflating: tomcat/conf/web.xml
inflating: tomcat/conf/catalina.policy
inflating: tomcat/conf/tomcat-users.xml
inflating: tomcat/conf/context.xml
creating: tomcat/webapps/
inflating: tomcat/webapps/auth.war
creating: tomcat/webapps/ROOT/
inflating: tomcat/webapps/ROOT/favicon.ico
inflating: tomcat/webapps/ROOT/build.xml
extracting: tomcat/webapps/ROOT/bg-nav.png
inflating: tomcat/webapps/ROOT/tomcat.png
inflating: tomcat/webapps/ROOT/index.orig
inflating: tomcat/webapps/ROOT/tomcat-power.gif
extracting: tomcat/webapps/ROOT/asf-logo.png
extracting: tomcat/webapps/ROOT/bg-nav-item.png
inflating: tomcat/webapps/ROOT/tomcat.css
extracting: tomcat/webapps/ROOT/asf-logo-wide.gif
extracting: tomcat/webapps/ROOT/bg-button.png
inflating: tomcat/webapps/ROOT/index.jsp
inflating: tomcat/webapps/ROOT/tomcat.gif
extracting: tomcat/webapps/ROOT/bg-middle.png
inflating: tomcat/webapps/ROOT/tomcat.svg
creating: tomcat/webapps/ROOT/WEB-INF/
inflating: tomcat/webapps/ROOT/WEB-INF/web.xml
extracting: tomcat/webapps/ROOT/bg-upper.png
inflating: tomcat/webapps/ROOT/RELEASE-NOTES.txt
inflating: tomcat/RUNNING.txt
creating: tomcat/bin/
inflating: tomcat/bin/catalina-tasks.xml
inflating: tomcat/bin/shutdown.sh
inflating: tomcat/bin/tomcat-juli.jar
inflating: tomcat/bin/bootstrap.jar
inflating: tomcat/bin/daemon.sh
inflating: tomcat/bin/setenv.sh
inflating: tomcat/bin/catalina.sh
inflating: tomcat/bin/tool-wrapper.sh
inflating: tomcat/bin/digest.sh
inflating: tomcat/bin/version.sh
inflating: tomcat/bin/setclasspath.sh
inflating: tomcat/bin/commons-daemon-native.tar.gz
inflating: tomcat/bin/tomcat-native.tar.gz
inflating: tomcat/bin/startup.sh
inflating: tomcat/bin/configtest.sh
inflating: tomcat/bin/commons-daemon.jar
inflating: tomcat/NOTICE
inflating: tomcat/LICENSE
creating: tomcat/logs/
creating: tomcat/work/
inflating: tomcat/RELEASE-NOTES
The binaries have been extracted to the following folder: /opt/tomcat.
```

Starting tomcat...

```
Using CATALINA_BASE:   /opt/tomcat
Using CATALINA_HOME:   /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Tomcat started.
```

Extracting OpenAM tools...

Archive: /opt/artifacts/openamtools.zip

```
creating: openamtools/
inflating: openamtools/LICENSE.DOM-software.html
inflating: openamtools/setup.bat
inflating: openamtools/commons-collections-license.txt
creating: openamtools/log/
inflating: openamtools/log/ssoadm.access
inflating: openamtools/jsf-license.txt
creating: openamtools/lib/
inflating: openamtools/lib/openam-wsfederation-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-idsvcs-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/servlet-api-2.5.jar
inflating: openamtools/lib/openam-distribution-amadmsetup-10.1.0-Xpress.jar
inflating: openamtools/lib/xalan-2.7.1.jar
inflating: openamtools/lib/openam-cli-definitions-10.1.0-Xpress.jar
inflating: openamtools/lib/opensj-server-2.4.6.jar
inflating: openamtools/lib/openam-core-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-federation-library-10.1.0-Xpress.jar
inflating: openamtools/lib/mail-1.4.5.jar
inflating: openamtools/lib/openam-xacml3-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-cli-impl-10.1.0-Xpress.jar
inflating: openamtools/lib/jsr173_api-2004-30-01.jar
inflating: openamtools/lib/openam-saml2-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/webservices-tools-2.1-b16.jar
inflating: openamtools/lib/openam-jaxrpc-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-dtd-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-shared-10.1.0-Xpress.jar
inflating: openamtools/lib/xsdlib-20060615.jar
inflating: openamtools/lib/webservices-rt-2009-29-07.jar
inflating: openamtools/lib/jaxrpc-spi-1.1.3_01.jar
inflating: openamtools/lib/openam-entitlements-10.1.0-Xpress.jar
inflating: openamtools/lib/xml-serializer-2.11.0.jar
inflating: openamtools/lib/openam-liberty-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/OpenFM-10.1.0-Xpress.jar
inflating: openamtools/lib/jaxrpc-impl-1.1.3_01-041406.jar
inflating: openamtools/lib/webservices-api-2009-14-01.jar
inflating: openamtools/lib/json-20090211.jar
inflating: openamtools/lib/xercesImpl-2.11.0.jar
inflating: openamtools/lib/relaxngDatatype-20020414.jar
inflating: openamtools/lib/jaxrpc-api-1.1.jar
inflating: openamtools/json-license.txt
inflating: openamtools/commons-beanutils-license.txt
creating: openamtools/resources/
inflating: openamtools/resources/amPolicyConfig_ja.properties
inflating: openamtools/resources/libIDFF_es.properties
inflating: openamtools/resources/libIDPDiscovery_en.properties
inflating: openamtools/resources/configuration_ja.properties
inflating: openamtools/resources/fmSessionProvider_ja.properties
inflating: openamtools/resources/amLogging.properties
inflating: openamtools/resources/hiddenserverconfig.properties
inflating: openamtools/resources/fmSAMLConfiguration_en.properties
inflating: openamtools/resources/amIdRepo.properties
inflating: openamtools/resources/dashboard.properties
inflating: openamtools/resources/fmWebServicesClients_zh.properties
inflating: openamtools/resources/fmLibertySecurity_en.properties
inflating: openamtools/resources/amDelegation_de.properties
inflating: openamtools/resources/famFederationCommon_es.properties
inflating: openamtools/resources/libIDPDiscovery_de.properties
inflating: openamtools/resources/configuratorTagSwap.properties
inflating: openamtools/resources/fmConfigurationService.properties
inflating: openamtools/resources/amSecurity_ko.properties
```

inflating: openamtools/resources/fmAuthFederationConfiguration\_en.properties  
inflating: openamtools/resources/libIDFF\_en.properties  
inflating: openamtools/resources/CoreToken\_zh.properties  
inflating: openamtools/resources/amsessiontoolssesetup\_es.properties  
inflating: openamtools/resources/libWSFederation\_ja.properties  
inflating: openamtools/resources/amConsole.properties  
inflating: openamtools/resources/CoreToken\_ja.properties  
inflating: openamtools/resources/amLogging\_ja.properties  
inflating: openamtools/resources/libXACML\_zh.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_ko.properties  
inflating: openamtools/resources/amPasswordReset.properties  
inflating: openamtools/resources/fmIDFFConfiguration\_es.properties  
inflating: openamtools/resources/amAuth\_en.properties  
inflating: openamtools/resources/amLogging\_es.properties  
inflating: openamtools/resources/fmWSSecurity\_zh\_TW.properties  
inflating: openamtools/resources/libSystemConfiguration\_es.properties  
inflating: openamtools/resources/libDSTService\_es.properties  
inflating: openamtools/resources/libWSFederation\_de.properties  
inflating: openamtools/resources/amPlatform\_zh.properties  
inflating: openamtools/resources/fmWSSProvider\_de.properties  
inflating: openamtools/resources/debug\_ja.properties  
inflating: openamtools/resources/Services\_zh\_TW.properties  
inflating: openamtools/resources/configuration\_ko.properties  
inflating: openamtools/resources/RestException\_de.properties  
inflating: openamtools/resources/famWSSAuth\_de.properties  
inflating: openamtools/resources/famIDFFConfiguration\_de.properties  
inflating: openamtools/resources/amAuthContextLocal\_ja.properties  
inflating: openamtools/resources/authentication\_util\_ko.properties  
inflating: openamtools/resources/fmAuthnSvcConfiguration\_fr.properties  
inflating: openamtools/resources/famIDFFConfiguration\_ko.properties  
inflating: openamtools/resources/libIDPDiscovery\_ko.properties  
inflating: openamtools/resources/amPasswordReset\_fr.properties  
inflating: openamtools/resources/amPasswordResetModuleMsgs\_ko.properties  
inflating: openamtools/resources/fmAuthFederation\_zh\_TW.properties  
inflating: openamtools/resources/fmLibertyPersonalProfileConfiguration.properties  
inflating: openamtools/resources/amWebAgent\_zh\_TW.properties  
inflating: openamtools/resources/fmSessionProvider\_fr.properties  
inflating: openamtools/resources/amSSOProvider\_ko.properties  
inflating: openamtools/resources/amSSOProvider\_ja.properties  
inflating: openamtools/resources/amPolicy\_zh.properties  
inflating: openamtools/resources/LDAPAuth\_de.properties  
inflating: openamtools/resources/amClientDetection\_ko.properties  
inflating: openamtools/resources/libSystemConfiguration\_en.properties  
inflating: openamtools/resources/amConsole\_en.properties  
inflating: openamtools/resources/amsessiontoolssesetup\_ja.properties  
inflating: openamtools/resources/fmPersonalProfile.properties  
inflating: openamtools/resources/amSDK\_fr.properties  
inflating: openamtools/resources/encode\_zh.properties  
inflating: openamtools/resources/amPll\_ko.properties  
inflating: openamtools/resources/amIdRepoService\_zh.properties  
inflating: openamtools/resources/fmSAML2SOPABindingConfiguration\_de.properties  
inflating: openamtools/resources/fmSAMLConfiguration\_zh\_TW.properties  
inflating: openamtools/resources/famLibertyInteractionService\_zh\_TW.properties  
inflating: openamtools/resources/amAgent\_zh\_TW.properties  
inflating: openamtools/resources/amPlatform\_de.properties  
inflating: openamtools/resources/libCOT\_zh\_TW.properties  
inflating: openamtools/resources/fmSAMLConfiguration\_de.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_es.properties  
inflating: openamtools/resources/amPasswordReset\_es.properties  
inflating: openamtools/resources/ums\_fr.properties  
inflating: openamtools/resources/OpenSSOConfigurator\_zh\_TW.properties  
inflating: openamtools/resources/fmSessionProvider\_de.properties

inflating: openamtools/resources/fmSessionProvider.properties  
inflating: openamtools/resources/amPolicyConfig\_es.properties  
inflating: openamtools/resources/amMonitoring\_ja.properties  
inflating: openamtools/resources/libBinarySecurityToken.properties  
inflating: openamtools/resources/configuration\_de.properties  
inflating: openamtools/resources/fmWSFederationConfiguration\_zh.properties  
inflating: openamtools/resources/amSSOProvider\_es.properties  
inflating: openamtools/resources/amWebAgent\_es.properties  
inflating: openamtools/resources/debug\_de.properties  
inflating: openamtools/resources/libInteraction\_de.properties  
inflating: openamtools/resources/libBinarySecurityToken\_ja.properties  
inflating: openamtools/resources/amAuthContextLocal\_en.properties  
inflating: openamtools/resources/Services\_ja.properties  
inflating: openamtools/resources/amSession\_fr.properties  
inflating: openamtools/resources/amClientData\_fr.properties  
inflating: openamtools/resources/fmSessionProvider\_en.properties  
inflating: openamtools/resources/libDisco\_zh.properties  
inflating: openamtools/resources/authentication\_zh\_TW.properties  
inflating: openamtools/resources/iPlanetAMAuthService.section\_en.properties  
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inflating: openamtools/resources/libIDPDiscovery\_zh\_TW.properties  
inflating: openamtools/resources/agentService\_es.properties  
inflating: openamtools/resources/fmWSSProvider\_ko.properties  
inflating: openamtools/resources/OpenSSOConfigurator\_fr.properties  
inflating: openamtools/resources/amG11NSettings.properties  
inflating: openamtools/resources/libPAOS.properties  
inflating: openamtools/resources/famSAML2Configuration.properties  
inflating: openamtools/resources/fmSAML2Configuration\_zh\_TW.properties  
inflating: openamtools/resources/fmWSSecurity.properties  
inflating: openamtools/resources/amAuthUI\_en.properties  
inflating: openamtools/resources/fmSOAPBindingConfiguration\_en.properties  
inflating: openamtools/resources/fmWSSecurity\_es.properties  
inflating: openamtools/resources/libIDFF\_fr.properties  
inflating: openamtools/resources/amDelegation.properties  
inflating: openamtools/resources/famLibertySecurityService\_ko.properties  
inflating: openamtools/resources/amEntrySpecific\_fr.properties  
inflating: openamtools/resources/amPll\_es.properties  
inflating: openamtools/resources/amAuthContext\_fr.properties  
inflating: openamtools/resources/amPlatform\_en.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_de.properties  
inflating: openamtools/resources/libConfigurationManager\_ja.properties

inflating: openamtools/resources/famLibertyInteractionService\_ko.properties  
inflating: openamtools/resources/fmWebServicesClients\_ja.properties  
inflating: openamtools/resources/SecurID\_es.properties  
inflating: openamtools/resources/libPAOS\_fr.properties  
inflating: openamtools/resources/authentication\_de.properties  
inflating: openamtools/resources/amadm.properties  
inflating: openamtools/resources/famLibertySecurityService\_es.properties  
inflating: openamtools/resources/SecurID\_ja.properties  
inflating: openamtools/resources/ssoPatch\_ko.properties  
inflating: openamtools/resources/fmAuthFederation\_de.properties  
inflating: openamtools/resources/amGllnSettings\_fr.properties  
inflating: openamtools/resources/fmServiceNames.properties  
inflating: openamtools/resources/amProfile\_es.properties  
inflating: openamtools/resources/amAuthUI\_zh\_TW.properties  
inflating: openamtools/resources/amMonitoring.properties  
inflating: openamtools/resources/fmAuthSAE\_zh.properties  
inflating: openamtools/resources/amSecurity\_zh\_TW.properties  
inflating: openamtools/resources/libEncryption\_fr.properties  
inflating: openamtools/resources/fmAuthFederation\_ko.properties  
inflating: openamtools/resources/libAuthnSvc\_es.properties  
inflating: openamtools/resources/fmLibertySecurity\_fr.properties  
inflating: openamtools/resources/workflowMessages.properties  
inflating: openamtools/resources/amAdminConsole\_ko.properties  
inflating: openamtools/resources/amNaming\_fr.properties  
inflating: openamtools/resources/amPasswordResetModuleMsgs\_es.properties  
inflating: openamtools/resources/amAuth.properties  
inflating: openamtools/resources/amCommonUtils\_es.properties  
inflating: openamtools/resources/amAuthConfig\_zh.properties  
inflating: openamtools/resources/amPll\_en.properties  
inflating: openamtools/resources/amAuth\_fr.properties  
inflating: openamtools/resources/fmAuthSAE\_de.properties  
inflating: openamtools/resources/famSTS\_fr.properties  
inflating: openamtools/resources/Services\_fr.properties  
inflating: openamtools/resources/famSTS.properties  
inflating: openamtools/resources/libSAML\_es.properties  
inflating: openamtools/resources/famIDFFConfiguration.properties  
inflating: openamtools/resources/sso\_ko.properties  
inflating: openamtools/resources/deployablewar\_en.properties  
inflating: openamtools/resources/cliBase\_es.properties  
inflating: openamtools/resources/amIdRepoService\_ja.properties  
inflating: openamtools/resources/libBinarySecurityToken\_de.properties  
inflating: openamtools/resources/OpenAMUpgrade\_es.properties  
inflating: openamtools/resources/libSOAPBinding\_de.properties  
inflating: openamtools/resources/amIdRepoService\_en.properties  
inflating: openamtools/resources/fmSAMLConfiguration\_ja.properties  
inflating: openamtools/resources/amsessiontoolssetup\_de.properties  
inflating: openamtools/resources/fmAuthFederationConfiguration\_ko.properties  
inflating: openamtools/resources/amCommonUtils\_ko.properties  
inflating: openamtools/resources/amGllnSettings\_zh.properties  
inflating: openamtools/resources/workflowMessages\_fr.properties  
inflating: openamtools/resources/SecurID\_fr.properties  
inflating: openamtools/resources/amAuthConfig\_fr.properties  
inflating: openamtools/resources/amHa.properties  
inflating: openamtools/resources/ums\_de.properties  
inflating: openamtools/resources/webServiceUI.properties  
inflating: openamtools/resources/encode\_fr.properties  
inflating: openamtools/resources/fmCOTConfiguration\_de.properties  
inflating: openamtools/resources/fmSAML2Configuration\_zh.properties  
inflating: openamtools/resources/amPolicy\_ko.properties  
inflating: openamtools/resources/amNaming\_ja.properties  
inflating: openamtools/resources/amConfiguration.properties  
inflating: openamtools/resources/amWebAgent\_ja.properties

inflating: openamtools/resources/amValidation\_en.properties  
inflating: openamtools/resources/agentService\_de.properties  
inflating: openamtools/resources/libIDPDiscovery\_es.properties  
inflating: openamtools/resources/workflowMessages\_zh.properties  
inflating: openamtools/resources/amAuthContextLocal\_zh.properties  
inflating: openamtools/resources/fmWSSProvider\_ja.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_ja.properties  
inflating: openamtools/resources/libPersonalProfile\_ko.properties  
inflating: openamtools/resources/fmDiscoConfiguration\_ja.properties  
inflating: openamtools/resources/ssoPatch\_fr.properties  
inflating: openamtools/resources/fmSAML2SOAPBindingConfiguration\_en.properties  
inflating: openamtools/resources/fmDiscoConfiguration.properties  
inflating: openamtools/resources/fmIDFFConfiguration\_ko.properties  
inflating: openamtools/resources/amLogging\_de.properties  
inflating: openamtools/resources/fmSessionProvider\_zh\_TW.properties  
inflating: openamtools/resources/ssoPatch\_de.properties  
inflating: openamtools/resources/libSystemConfiguration\_ja.properties  
inflating: openamtools/resources/fmWSSProvider\_es.properties  
inflating: openamtools/resources/amAdminConsole\_ja.properties  
inflating: openamtools/resources/fmWSSProvider.properties  
inflating: openamtools/resources/amUser\_fr.properties  
inflating: openamtools/resources/fmMultiFederationProtocol.properties  
inflating: openamtools/resources/libSessionProvider\_zh\_TW.properties  
inflating: openamtools/resources/libInteraction.properties  
inflating: openamtools/resources/amPasswordResetModuleMsgs.properties  
inflating: openamtools/resources/fmSAML2Configuration\_fr.properties  
inflating: openamtools/resources/fmAuthFederationConfiguration.properties  
inflating: openamtools/resources/deployablewar\_ko.properties  
inflating: openamtools/resources/bootstrap.properties  
inflating: openamtools/resources/famWSSAuth\_en.properties  
inflating: openamtools/resources/amClientDetection\_en.properties  
inflating: openamtools/resources/famFederationCommon\_ko.properties  
inflating: openamtools/resources/libPAOS\_ja.properties  
inflating: openamtools/resources/DSCfg\_de.properties  
inflating: openamtools/resources/RestException\_ja.properties  
inflating: openamtools/resources/fmDataStoreProvider\_en.properties  
inflating: openamtools/resources/fmAuthSAE\_ja.properties  
inflating: openamtools/resources/libWSFederation\_fr.properties  
inflating: openamtools/resources/amMonitoring\_en.properties  
inflating: openamtools/resources/fmWebServicesClients\_en.properties  
inflating: openamtools/resources/fmWebServicesClients\_de.properties  
inflating: openamtools/resources/serverAttributeMap.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_zh.properties  
inflating: openamtools/resources/libSessionProvider\_fr.properties  
inflating: openamtools/resources/fmWSFederationConfiguration\_es.properties  
inflating: openamtools/resources/amPlatform\_es.properties  
inflating: openamtools/resources/EntitlementException\_es.properties  
inflating: openamtools/resources/libSystemConfiguration\_ko.properties  
inflating: openamtools/resources/fmIDFFConfiguration.properties  
inflating: openamtools/resources/fmSAMLConfiguration\_es.properties  
inflating: openamtools/resources/libIDFFMeta.properties  
inflating: openamtools/resources/amValidation\_fr.properties  
inflating: openamtools/resources/amPlatform\_zh\_TW.properties  
inflating: openamtools/resources/amConfigurator\_zh\_TW.properties  
inflating: openamtools/resources/amUser\_zh\_TW.properties  
inflating: openamtools/resources/libDSTService\_zh.properties  
inflating: openamtools/resources/amDelegation\_zh\_TW.properties  
inflating: openamtools/resources/libXACML\_zh\_TW.properties  
inflating: openamtools/resources/amAgent\_en.properties  
inflating: openamtools/resources/libIDPDiscovery\_ja.properties  
inflating: openamtools/resources/libDSTService\_fr.properties  
inflating: openamtools/resources/amConfiguration\_en.properties

inflating: openamtools/resources/amAdminConsole\_zh.properties  
inflating: openamtools/resources/fmConfigurationService\_zh.properties  
inflating: openamtools/resources/workflowMessages\_es.properties  
inflating: openamtools/resources/libPAOS\_es.properties  
inflating: openamtools/resources/amAuthContext\_de.properties  
inflating: openamtools/resources/AGBits.properties  
inflating: openamtools/resources/famWSSAuth\_zh\_TW.properties  
inflating: openamtools/NOTICE.resolver.txt  
inflating: openamtools/commons-digester-license.txt  
inflating: openamtools/README.setup  
inflating: openamtools/sampleconfiguration  
inflating: openamtools/openam-distribution-upgrade-10.1.0-Xpress.jar  
inflating: openamtools/LICENSE-SAX.html  
inflating: openamtools/commons-logging-license.txt  
inflating: openamtools/rome-license.txt  
inflating: openamtools/license.txt  
creating: openamtools/debug/  
inflating: openamtools/debug/IdRepo  
inflating: openamtools/debug/Configuration  
inflating: openamtools/debug/CoreSystem  
inflating: openamtools/debug/Session  
inflating: openamtools/debug/Authentication  
inflating: openamtools/sampleupgrade  
creating: openamtools/auth/  
creating: openamtools/auth/bin/  
inflating: openamtools/auth/bin/ssoadm  
inflating: openamtools/auth/bin/ampassword  
inflating: openamtools/auth/bin/amverifyarchive  
inflating: openamtools/asm-core-license.txt  
inflating: openamtools/LICENSE.resolver.txt  
inflating: openamtools/openam-distribution-configurator-10.1.0-Xpress.jar  
extracting: openamtools/pwd.txt  
inflating: openamtools/jdom-license.txt  
creating: openamtools/classes/  
inflating: openamtools/classes/odsee\_config\_schema.ldif  
inflating: openamtools/classes/odsee\_config\_index.ldif  
inflating: openamtools/NOTICE.serializer.txt  
inflating: openamtools/LICENSE.DOM-documentation.html  
inflating: openamtools/commons-fileupload-license.txt  
inflating: openamtools/setup  
creating: openamtools/template/  
creating: openamtools/template/windows/  
creating: openamtools/template/windows/bin/  
inflating: openamtools/template/windows/bin/amverifyarchive.bat.template  
inflating: openamtools/template/windows/bin/ssoadm.bat.template  
inflating: openamtools/template/windows/bin/ampassword.bat.template  
creating: openamtools/template/unix/  
creating: openamtools/template/unix/bin/  
inflating: openamtools/template/unix/bin/ampassword.template  
inflating: openamtools/template/unix/bin/ssoadm.template  
inflating: openamtools/template/unix/bin/amverifyarchive.template  
inflating: openamtools/jtsl-license.txt  
inflating: openamtools/LICENSE.serializer.txt  
inflating: openamtools/icefaces-license.txt  
The OpenAM Tools have been extracted to the following folder: /opt/openamtools.

Note: A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 4: Initial Configuration of OpenAM
*
* In this phase, the script will create the initial configuration
* of OpenAM
*
*****
Hit the <ENTER> key to continue

Creating initial configuration for OpenAM (this may take a few moments)...
Checking configuration directory /opt/openam...Success.
Installing OpenAM configuration store...Success RSA/ECB/OAEPWithSHA1AndMGF1Padding.
Extracting OpenDJ, please wait...Complete
Running OpenDJ setupSetup command: --cli --adminConnectorPort 4444 --baseDN
dc=openam,dc=forgerock,dc=org --rootUserDN cn=Directory Manager --ldapPort 50389 --skipPortCheck
--rootUserPassword xxxxxxxx --jmxPort 1689 --no-prompt --configFile
/opt/openam/opends/config/config.ldif --doNotStart --hostname sbacssotest1.uat.openam.airast.org
%0AOpenDJ+2.4.6%0APlease+wait+while+the+setup+program+initializes...%0A%0ASee+%2Fopt%2Ftomcat%2Ft
emp%2Fopends-setup-
8344116754799168152.log+for+a+detailed+log+of+this+operation.%0A%0AConfiguring+Directory+Server+.
....+Done.%0A%0ATo+see+basic+server+configuration+status+and+configuration+you+can+launch+%2Fopt%
2Fopenam%2Fopends%2Fbin%2Fstatus%0A...Success.
...Success
Installing OpenAM configuration store in /opt/openam/opends...Success.
Creating OpenAM suffix...Success
Tag swapping schema files...Success.
Loading Schema opendj_config_schema.ldif...Success.
Loading Schema opendj_user_schema.ldif...Success.
Loading Schema opendj_embinit.ldif...Success.
Loading Schema opendj_user_index.ldif...Success.
Loading Schema opendj_plugin.ldif...Success.
Loading Schema cts-container.ldif...Success.
Loading Schema cts-add-schema.ldif...Success.
Loading Schema cts-indices-schema.ldif...Success.
Loading Schema 99-oauth2attributes.ldif...Success.
...Success.
Reinitializing system properties....Done
Registering service dashboardService.xml...Success.
Registering service amEntrySpecific.xml...Success.
Registering service amAuthConfig.xml...Success.
Registering service amAuthHTTPBasic.xml...Success.
Registering service amAdminConsole.xml...Success.
Registering service idRepoService.xml...Success.
Registering service amAuth.xml...Success.
Registering service amAuthAD.xml...Success.
Registering service amAuthAdaptive.xml...Success.
Registering service amAuthAnonymous.xml...Success.
Registering service amAuthCert.xml...Success.
Registering service amAuthDataStore.xml...Success.
Registering service amAuthJDBC.xml...Success.
Registering service amAuthLDAP.xml...Success.
Registering service amAuthMSISDN.xml...Success.
Registering service amAuthMembership.xml...Success.
Registering service amAuthNT.xml...Success.
Registering service amAuthOAuth.xml...Success.
Registering service amAuthWindowsDesktopSSO.xml...Success.
```



Registering service amClientData.xml...Success.  
Registering service amClientDetection.xml...Success.  
Registering service amDelegation.xml...Success.  
Registering service amFilteredRole.xml...Success.  
Registering service amG11NSettings.xml...Success.  
Registering service amLogging.xml...Success.  
Registering service amNaming.xml...Success.  
Registering service amPlatform.xml...Success.  
Registering service amPolicy.xml...Success.  
Registering service amPolicyConfig.xml...Success.  
Registering service amRealmService.xml...Success.  
Registering service amSession.xml...Success.  
Registering service amWebAgent.xml...Success.  
Registering service amUser.xml...Success.  
Registering service identityLocaleService.xml...Success.  
Registering service amAgent70.xml...Success.  
Registering service amPasswordReset.xml...Success.  
Registering service amAuthRadius.xml...Success.  
Registering service amAuthHOTP.xml...Success.  
Registering service amAuthSecurID.xml...Success.  
Registering service amMonitoring.xml...Success.  
Registering service AgentService.xml...Success.  
Registering service policyIndex.xml...Success.  
Registering service entitlement.xml...Success.  
Registering service openProvisioning.xml...Success.  
Registering service banking.xml...Success.  
Registering service CoreTokenConfig.xml...Success.  
Registering service CoreTokenStore.xml...Success.  
Registering service amAuthOATH.xml...Success.  
Registering service fmAuthFederation.xml...Success.  
Registering service fmAuthSAE.xml...Success.  
Registering service fmAuthnSvc.xml...Success.  
Registering service fmDisco.xml...Success.  
Registering service fmIDFF.xml...Success.  
Registering service fmLibertyPersonalProfile.xml...Success.  
Registering service fmCOTConfig.xml...Success.  
Registering service fmSAML2.xml...Success.  
Registering service fmSAML.xml...Success.  
Registering service fmSOAPBinding.xml...Success.  
Registering service fmSAML2SOAPBinding.xml...Success.  
Registering service fmWSFederation.xml...Success.  
Registering service fmMultiProtocol.xml...Success.  
Registering service famSTS.xml...Success.  
Registering service famFederationCommon.xml...Success.  
Registering service famIDFFConfig.xml...Success.  
Registering service famSAML2Config.xml...Success.  
Registering service famWSSAuthService.xml...Success.  
Registering service OAuth2Provider.xml...Success.  
Configuring system...Done  
Configuring server instance...Done  
Creating demo user...Done  
Creating Web Service Security Agents...Done  
Setting up monitoring authentication file.  
Configuration complete!

Stopping tomcat...

Using CATALINA\_BASE: /opt/tomcat  
Using CATALINA\_HOME: /opt/tomcat  
Using CATALINA\_TMPDIR: /opt/tomcat/temp  
Using JRE\_HOME: /usr  
Using CLASSPATH: /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar

Starting tomcat...

```
Using CATALINA_BASE:  /opt/tomcat
Using CATALINA_HOME:  /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:       /usr
Using CLASSPATH:      /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
```

Tomcat restarted.

**Note:** A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 5: Final Configuration of OpenAM
*
* In this phase, the script will perform the SBAC specific configuration
* of OpenAM
*
*****
Hit the <ENTER> key to continue

Final configuration of OpenAM (this may take a few moments)...

Realm was created.

Datastore was deleted.

Datastore was created.

Authentication Instance was updated.

Authentication Configuration was created.

Authentication Configuration's entry was created

iPlanetAMAuthService under /sbac was modified.

Service, iPlanetAMPasswordResetService was added to realm, /sbac.

Circle of trust, sbac was created.

Import file, /opt/artifacts/configfiles/IDP_metadata.xml.
Import file, /opt/artifacts/configfiles/IDP_extended_metadata.xml.

The configuration of default was updated.

Schema attribute defaults were set.

The configuration of default was updated.

Attribute values were set.

Attribute values were set.

Stopping tomcat...

Using CATALINA_BASE:  /opt/tomcat
```

```
Using CATALINA_HOME:   /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
```

Starting tomcat...

```
Using CATALINA_BASE:   /opt/tomcat
Using CATALINA_HOME:   /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
```

Tomcat restarted.

Install complete. You may now access the system at  
<https://sbac.uat.openam.airast.org:443/auth/UI/Login>.  
The end user change password URL is  
<https://sbac.uat.openam.airast.org:443/auth/idm/EndUser?action=pw>.  
The Logout URL is <https://sbac.uat.openam.airast.org:443/auth/UI/Logout>.

Have a nice day!

## Installation Details (Subsequent OpenAM Instances):

The following demonstrates the details contained in the `installOpenAM.sh` script.

```
root@sbacssotest2:/opt# ./installOpenAM.sh
```

The following is the output from the `installOpenAM.sh` script.

Note: A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 1: System Verification
*
* In this phase, the script will verify the existing Linux environment.
*
*****
Hit the <ENTER> key to continue

Verifying identity of current user...
CONFIRMED: You are executing this script as: root

Verifying the current working directory...
CONFIRMED: You are executing this script from the /opt folder

Searching for the current version of Java...
/usr/bin/java
CONFIRMED: The java executable was found in the PATH variable
CONFIRMED: You are running java version 1.6.0_45

Checking for the existence of the openam user...
CONFIRMED: The openam user exists.

Checking to see if /opt/tomcat already exists...
/opt/tomcat does not exist

CONFIRMED: This is a new installation.

Hit the <ENTER> key to continue
```

Note: A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 2: Gather configuration info
*
* In this phase, the script will collect data from you that will be
* needed to perform the installation and configuration of the system.
*
*****

Choose a password for the amadmin user:
Enter the password for the amadmin user (again):
```

Enter the Fully Qualified Domain Name (FQDN) of this system (Ex. server.co.com):  
sbacssotest2.uat.openam.airast.org

Is this the first instance of OpenAM you are deploying (yes/no) : no

Enter the Fully Qualified Domain Name of the existing OpenAM server (Ex. server.co.com):  
sbacssotest1.uat.openam.airast.org

Will this instance be deployed behind a load balancer as part of a site configuration? (yes/no) :  
yes

Enter the load balancer URL (Ex. https://server.co.com:443/auth):  
https://sbac.uat.openam.airast.org:443/auth

**Note:** A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 3: Extraction of Tomcat and OpenAM Tools
*
* In this phase, the script will extract tomcat and start it up with the
* SBAC-Specific OpenAM war deployed.
*
*****
Hit the <ENTER> key to continue
```

Extracting the tomcat binary w/OpenAM war included...

```
Archive:  /opt/artifacts/tomcat.zip
  creating: tomcat/
  creating: tomcat/lib/
  inflating: tomcat/lib/jasper-el.jar
  inflating: tomcat/lib/jasper.jar
  inflating: tomcat/lib/tomcat-118n-fr.jar
  inflating: tomcat/lib/tomcat-dbcj.jar
  inflating: tomcat/lib/catalina-ant.jar
  inflating: tomcat/lib/tomcat-coyote.jar
  inflating: tomcat/lib/el-api.jar
  inflating: tomcat/lib/tomcat-118n-es.jar
  inflating: tomcat/lib/tomcat-util.jar
  inflating: tomcat/lib/tomcat-118n-ja.jar
  inflating: tomcat/lib/tomcat-api.jar
  inflating: tomcat/lib/catalina.jar
  inflating: tomcat/lib/ecj-4.2.2.jar
  inflating: tomcat/lib/servlet-api.jar
  inflating: tomcat/lib/annotations-api.jar
  inflating: tomcat/lib/tomcat-jdbc.jar
  inflating: tomcat/lib/catalina-tribes.jar
  inflating: tomcat/lib/jsp-api.jar
  inflating: tomcat/lib/catalina-ha.jar
  creating: tomcat/temp/
  extracting: tomcat/temp/safeToDelete.tmp
  creating: tomcat/conf/
  inflating: tomcat/conf/logging.properties
  inflating: tomcat/conf/server.xml
  inflating: tomcat/conf/catalina.properties
  inflating: tomcat/conf/web.xml
  inflating: tomcat/conf/catalina.policy
  inflating: tomcat/conf/tomcat-users.xml
```

```
inflating: tomcat/conf/context.xml
creating: tomcat/webapps/
inflating: tomcat/webapps/auth.war
creating: tomcat/webapps/ROOT/
inflating: tomcat/webapps/ROOT/favicon.ico
inflating: tomcat/webapps/ROOT/build.xml
extracting: tomcat/webapps/ROOT/bg-nav.png
inflating: tomcat/webapps/ROOT/tomcat.png
inflating: tomcat/webapps/ROOT/index.orig
inflating: tomcat/webapps/ROOT/tomcat-power.gif
extracting: tomcat/webapps/ROOT/asf-logo.png
extracting: tomcat/webapps/ROOT/bg-nav-item.png
inflating: tomcat/webapps/ROOT/tomcat.css
extracting: tomcat/webapps/ROOT/asf-logo-wide.gif
extracting: tomcat/webapps/ROOT/bg-button.png
inflating: tomcat/webapps/ROOT/index.jsp
inflating: tomcat/webapps/ROOT/tomcat.gif
extracting: tomcat/webapps/ROOT/bg-middle.png
inflating: tomcat/webapps/ROOT/tomcat.svg
creating: tomcat/webapps/ROOT/WEB-INF/
inflating: tomcat/webapps/ROOT/WEB-INF/web.xml
extracting: tomcat/webapps/ROOT/bg-upper.png
inflating: tomcat/webapps/ROOT/RELEASE-NOTES.txt
inflating: tomcat/RUNNING.txt
creating: tomcat/bin/
inflating: tomcat/bin/catalina-tasks.xml
inflating: tomcat/bin/shutdown.sh
inflating: tomcat/bin/tomcat-juli.jar
inflating: tomcat/bin/bootstrap.jar
inflating: tomcat/bin/daemon.sh
inflating: tomcat/bin/setenv.sh
inflating: tomcat/bin/catalina.sh
inflating: tomcat/bin/tool-wrapper.sh
inflating: tomcat/bin/digest.sh
inflating: tomcat/bin/version.sh
inflating: tomcat/bin/setclasspath.sh
inflating: tomcat/bin/commons-daemon-native.tar.gz
inflating: tomcat/bin/tomcat-native.tar.gz
inflating: tomcat/bin/startup.sh
inflating: tomcat/bin/configtest.sh
inflating: tomcat/bin/commons-daemon.jar
inflating: tomcat/NOTICE
inflating: tomcat/LICENSE
creating: tomcat/logs/
creating: tomcat/work/
inflating: tomcat/RELEASE-NOTES
The binaries have been extracted to the following folder: /opt/tomcat.
```

Starting tomcat...

```
Using CATALINA_BASE:  /opt/tomcat
Using CATALINA_HOME:  /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:       /usr
Using CLASSPATH:      /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Tomcat started.
```

Extracting OpenAM tools...

```
Archive:  /opt/artifacts/openamtools.zip
creating: openamtools/
inflating: openamtools/LICENSE.DOM-software.html
inflating: openamtools/setup.bat
inflating: openamtools/commons-collections-license.txt
```

```
creating: openamtools/log/
inflating: openamtools/log/ssoadm.access
inflating: openamtools/jsf-license.txt
creating: openamtools/lib/
inflating: openamtools/lib/openam-wsfederation-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-idsvcs-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/servlet-api-2.5.jar
inflating: openamtools/lib/openam-distribution-amadmsetup-10.1.0-Xpress.jar
inflating: openamtools/lib/xalan-2.7.1.jar
inflating: openamtools/lib/openam-cli-definitions-10.1.0-Xpress.jar
inflating: openamtools/lib/opensj-server-2.4.6.jar
inflating: openamtools/lib/openam-core-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-federation-library-10.1.0-Xpress.jar
inflating: openamtools/lib/mail-1.4.5.jar
inflating: openamtools/lib/openam-xacml3-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-cli-impl-10.1.0-Xpress.jar
inflating: openamtools/lib/jsr173_api-2004-30-01.jar
inflating: openamtools/lib/openam-saml2-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/webservices-tools-2.1-bl6.jar
inflating: openamtools/lib/openam-jaxrpc-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-dtd-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/openam-shared-10.1.0-Xpress.jar
inflating: openamtools/lib/xsdlb-20060615.jar
inflating: openamtools/lib/webservices-rt-2009-29-07.jar
inflating: openamtools/lib/jaxrpc-spi-1.1.3_01.jar
inflating: openamtools/lib/openam-entitlements-10.1.0-Xpress.jar
inflating: openamtools/lib/xml-serializer-2.11.0.jar
inflating: openamtools/lib/openam-liberty-schema-10.1.0-Xpress.jar
inflating: openamtools/lib/OpenFM-10.1.0-Xpress.jar
inflating: openamtools/lib/jaxrpc-impl-1.1.3_01-041406.jar
inflating: openamtools/lib/webservices-api-2009-14-01.jar
inflating: openamtools/lib/json-20090211.jar
inflating: openamtools/lib/xercesImpl-2.11.0.jar
inflating: openamtools/lib/relaxngDatatype-20020414.jar
inflating: openamtools/lib/jaxrpc-api-1.1.jar
inflating: openamtools/json-license.txt
inflating: openamtools/commons-beanutils-license.txt
creating: openamtools/resources/
inflating: openamtools/resources/amPolicyConfig_ja.properties
inflating: openamtools/resources/libIDFF_es.properties
inflating: openamtools/resources/libIDPDiscovery_en.properties
inflating: openamtools/resources/configuration_ja.properties
inflating: openamtools/resources/fmSessionProvider_ja.properties
inflating: openamtools/resources/amLogging.properties
inflating: openamtools/resources/hiddenserverconfig.properties
inflating: openamtools/resources/fmSAMLConfiguration_en.properties
inflating: openamtools/resources/amIdRepo.properties
inflating: openamtools/resources/dashboard.properties
inflating: openamtools/resources/fmWebServicesClients_zh.properties
inflating: openamtools/resources/fmLibertySecurity_en.properties
inflating: openamtools/resources/amDelegation_de.properties
inflating: openamtools/resources/famFederationCommon_es.properties
inflating: openamtools/resources/libIDPDiscovery_de.properties
inflating: openamtools/resources/configuratorTagSwap.properties
inflating: openamtools/resources/fmConfigurationService.properties
inflating: openamtools/resources/amSecurity_ko.properties
inflating: openamtools/resources/fmAuthFederationConfiguration_en.properties
inflating: openamtools/resources/libIDFF_en.properties
inflating: openamtools/resources/CoreToken_zh.properties
inflating: openamtools/resources/amsessiontoolssetup_es.properties
inflating: openamtools/resources/libWSFederation_ja.properties
inflating: openamtools/resources/amConsole.properties
```

inflating: openamtools/resources/CoreToken\_ja.properties  
inflating: openamtools/resources/amLogging\_ja.properties  
inflating: openamtools/resources/libXACML\_zh.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_ko.properties  
inflating: openamtools/resources/amPasswordReset.properties  
inflating: openamtools/resources/fmIDFFConfiguration\_es.properties  
inflating: openamtools/resources/amAuth\_en.properties  
inflating: openamtools/resources/amLogging\_es.properties  
inflating: openamtools/resources/fmWSSecurity\_zh\_TW.properties  
inflating: openamtools/resources/libSystemConfiguration\_es.properties  
inflating: openamtools/resources/libDSTService\_es.properties  
inflating: openamtools/resources/libWSFederation\_de.properties  
inflating: openamtools/resources/amPlatform\_zh.properties  
inflating: openamtools/resources/fmWSSProvider\_de.properties  
inflating: openamtools/resources/debug\_ja.properties  
inflating: openamtools/resources/Services\_zh\_TW.properties  
inflating: openamtools/resources/configuration\_ko.properties  
inflating: openamtools/resources/RestException\_de.properties  
inflating: openamtools/resources/famWSSAuth\_de.properties  
inflating: openamtools/resources/famIDFFConfiguration\_de.properties  
inflating: openamtools/resources/amAuthContextLocal\_ja.properties  
inflating: openamtools/resources/authentication\_util\_ko.properties  
inflating: openamtools/resources/fmAuthnSvcConfiguration\_fr.properties  
inflating: openamtools/resources/famIDFFConfiguration\_ko.properties  
inflating: openamtools/resources/libIDPDiscovery\_ko.properties  
inflating: openamtools/resources/amPasswordReset\_fr.properties  
inflating: openamtools/resources/amPasswordResetModuleMsgs\_ko.properties  
inflating: openamtools/resources/fmAuthFederation\_zh\_TW.properties  
inflating: openamtools/resources/fmLibertyPersonalProfileConfiguration.properties  
inflating: openamtools/resources/amWebAgent\_zh\_TW.properties  
inflating: openamtools/resources/fmSessionProvider\_fr.properties  
inflating: openamtools/resources/amSSOProvider\_ko.properties  
inflating: openamtools/resources/amSSOProvider\_ja.properties  
inflating: openamtools/resources/amPolicy\_zh.properties  
inflating: openamtools/resources/LDAPAuth\_de.properties  
inflating: openamtools/resources/amClientDetection\_ko.properties  
inflating: openamtools/resources/libSystemConfiguration\_en.properties  
inflating: openamtools/resources/amConsole\_en.properties  
inflating: openamtools/resources/amsessiontoolssetup\_ja.properties  
inflating: openamtools/resources/fmPersonalProfile.properties  
inflating: openamtools/resources/amSDK\_fr.properties  
inflating: openamtools/resources/encode\_zh.properties  
inflating: openamtools/resources/amPll\_ko.properties  
inflating: openamtools/resources/amIdRepoService\_zh.properties  
inflating: openamtools/resources/fmSAML2SOAPBindingConfiguration\_de.properties  
inflating: openamtools/resources/fmSAMLConfiguration\_zh\_TW.properties  
inflating: openamtools/resources/famLibertyInteractionService\_zh\_TW.properties  
inflating: openamtools/resources/amAgent\_zh\_TW.properties  
inflating: openamtools/resources/amPlatform\_de.properties  
inflating: openamtools/resources/libCOT\_zh\_TW.properties  
inflating: openamtools/resources/fmSAMLConfiguration\_de.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_es.properties  
inflating: openamtools/resources/amPasswordReset\_es.properties  
inflating: openamtools/resources/ums\_fr.properties  
inflating: openamtools/resources/OpenSSOConfigurator\_zh\_TW.properties  
inflating: openamtools/resources/fmSessionProvider\_de.properties  
inflating: openamtools/resources/fmSessionProvider.properties  
inflating: openamtools/resources/amPolicyConfig\_es.properties  
inflating: openamtools/resources/amMonitoring\_ja.properties  
inflating: openamtools/resources/libBinarySecurityToken.properties  
inflating: openamtools/resources/configuration\_de.properties  
inflating: openamtools/resources/fmWSFederationConfiguration\_zh.properties



inflating: openamtools/resources/amSSOProvider\_es.properties  
inflating: openamtools/resources/amWebAgent\_es.properties  
inflating: openamtools/resources/debug\_de.properties  
inflating: openamtools/resources/libInteraction\_de.properties  
inflating: openamtools/resources/libBinarySecurityToken\_ja.properties  
inflating: openamtools/resources/amAuthContextLocal\_en.properties  
inflating: openamtools/resources/Services\_ja.properties  
inflating: openamtools/resources/amSession\_fr.properties  
inflating: openamtools/resources/amClientData\_fr.properties  
inflating: openamtools/resources/fmSessionProvider\_en.properties  
inflating: openamtools/resources/libDisco\_zh.properties  
inflating: openamtools/resources/authentication\_zh\_TW.properties  
inflating: openamtools/resources/iPlanetAMAuthService.section\_en.properties  
inflating: openamtools/resources/amSessionDB\_de.properties  
inflating: openamtools/resources/libConfigurationManager\_de.properties  
inflating: openamtools/resources/libPersonalProfile\_en.properties  
inflating: openamtools/resources/famIDFFConfiguration\_zh\_TW.properties  
inflating: openamtools/resources/amUtilMsgs\_de.properties  
inflating: openamtools/resources/agentService\_zh\_TW.properties  
inflating: openamtools/resources/amEntrySpecific\_de.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_fr.properties  
inflating: openamtools/resources/fmIDFFConfiguration\_de.properties  
inflating: openamtools/resources/libDataStoreProvider.properties  
inflating: openamtools/resources/fmWSSecurity\_fr.properties  
inflating: openamtools/resources/libXACML.properties  
inflating: openamtools/resources/amConfiguration\_es.properties  
inflating: openamtools/resources/CoreToken\_en.properties  
inflating: openamtools/resources/fmDataStoreProvider.properties  
inflating: openamtools/resources/libIDFFMeta\_es.properties  
inflating: openamtools/resources/amConsole\_es.properties  
inflating: openamtools/resources/authentication\_zh.properties  
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inflating: openamtools/resources/amConfiguration\_fr.properties  
inflating: openamtools/resources/agentService\_zh.properties  
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inflating: openamtools/resources/amSession\_zh\_TW.properties  
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inflating: openamtools/resources/libBinarySecurityToken\_en.properties  
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inflating: openamtools/resources/libEncryption\_en.properties  
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inflating: openamtools/resources/amSSOProvider\_zh.properties  
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inflating: openamtools/resources/amAuthContextLocal.properties  
inflating: openamtools/resources/amadmtoolssetup\_zh\_TW.properties  
inflating: openamtools/resources/fmMultiFederationProtocol\_zh\_TW.properties  
inflating: openamtools/resources/amIdRepo\_es.properties  
inflating: openamtools/resources/amConfigurator\_fr.properties  
inflating: openamtools/resources/fmDiscoConfiguration\_zh.properties  
inflating: openamtools/resources/fmLibertyPersonalProfileConfiguration\_en.properties  
inflating: openamtools/resources/deployablewar\_de.properties  
inflating: openamtools/resources/fmPersonalProfile\_de.properties  
inflating: openamtools/resources/amConfigurator\_es.properties  
inflating: openamtools/resources/SecurID.properties  
inflating: openamtools/resources/encode\_de.properties  
inflating: openamtools/resources/fmWebServicesClients\_ko.properties  
inflating: openamtools/resources/amClientDetection\_es.properties  
inflating: openamtools/resources/amConfiguration\_zh.properties  
inflating: openamtools/resources/fmCOTConfiguration\_zh\_TW.properties  
inflating: openamtools/resources/cliBase\_zh\_TW.properties  
inflating: openamtools/resources/OpenSSOConfigurator\_de.properties  
inflating: openamtools/resources/fmMultiFederationProtocol\_fr.properties  
inflating: openamtools/resources/libEncryption\_ko.properties

inflating: openamtools/resources/fmWSSProvider\_zh\_TW.properties  
inflating: openamtools/resources/libCOT\_de.properties  
inflating: openamtools/resources/amIdRepoService\_es.properties  
inflating: openamtools/resources/iwtAuthNT.properties  
inflating: openamtools/resources/libDataStoreProvider\_fr.properties  
inflating: openamtools/resources/debug\_zh\_TW.properties  
inflating: openamtools/resources/amadmtoolssetup\_en.properties  
inflating: openamtools/resources/amSession\_de.properties  
inflating: openamtools/resources/fmAuthnSvcConfiguration.properties  
inflating: openamtools/resources/amClientDetection\_fr.properties  
inflating: openamtools/resources/amPll\_de.properties  
inflating: openamtools/resources/OpenSSOConfigurator\_ko.properties  
inflating: openamtools/resources/amPolicyConfig\_fr.properties  
inflating: openamtools/resources/fmAuthFederationConfiguration\_zh.properties  
inflating: openamtools/resources/amNaming\_ko.properties  
inflating: openamtools/resources/amIdRepo\_ko.properties  
inflating: openamtools/resources/iwtAuthNT\_zh.properties  
inflating: openamtools/resources/libConfigurationManager\_fr.properties  
inflating: openamtools/resources/famIDFFConfiguration\_en.properties  
inflating: openamtools/resources/libIDFF\_zh\_TW.properties  
inflating: openamtools/resources/fmDiscoConfiguration\_en.properties  
inflating: openamtools/resources/amSDK\_es.properties  
inflating: openamtools/resources/amNaming\_en.properties  
inflating: openamtools/resources/amAuthContextLocal\_es.properties  
inflating: openamtools/resources/famLibertyInteractionService\_fr.properties  
inflating: openamtools/resources/fmLibertySecurity\_de.properties  
inflating: openamtools/resources/amUtilMsgs\_ko.properties  
inflating: openamtools/resources/amSessionDB\_ko.properties  
inflating: openamtools/resources/libSOAPBinding\_ko.properties  
inflating: openamtools/resources/famFederationCommon\_de.properties  
inflating: openamtools/resources/libXACML\_ja.properties  
inflating: openamtools/resources/famLibertySecurityService\_zh\_TW.properties  
inflating: openamtools/resources/cliBase\_ko.properties  
inflating: openamtools/resources/fmWebServicesClients\_fr.properties  
inflating: openamtools/resources/libSAML\_de.properties  
inflating: openamtools/resources/libSAML\_fr.properties  
inflating: openamtools/resources/OpenAMConfigurator\_en.properties  
inflating: openamtools/resources/debugconfig.properties  
inflating: openamtools/resources/fmConfigurationService\_ko.properties  
inflating: openamtools/resources/serviceNames.properties  
inflating: openamtools/resources/fmWSFederationConfiguration.properties  
inflating: openamtools/resources/amNaming.properties  
inflating: openamtools/resources/fmMultiFederationProtocol\_ja.properties  
inflating: openamtools/resources/amUser\_ko.properties  
inflating: openamtools/resources/amPasswordReset\_de.properties  
inflating: openamtools/resources/libIDFFMeta\_en.properties  
inflating: openamtools/resources/amPolicyConfig\_en.properties  
inflating: openamtools/resources/amAuthContext\_ja.properties  
inflating: openamtools/resources/libSOAPBinding\_zh.properties  
inflating: openamtools/resources/libSAML2\_zh\_TW.properties  
inflating: openamtools/resources/amDelegation\_ko.properties  
inflating: openamtools/resources/libSAML\_zh\_TW.properties  
inflating: openamtools/resources/libSAML2\_zh.properties  
inflating: openamtools/resources/agentlocaleprop.properties  
inflating: openamtools/resources/libIDFFMeta\_fr.properties  
inflating: openamtools/resources/fmServiceDefaultValues.properties  
inflating: openamtools/resources/BasicClientTypesManager.properties  
inflating: openamtools/resources/libConfigurationManager.properties  
inflating: openamtools/resources/sunIdentityRepositoryService.section.properties  
inflating: openamtools/resources/amLDAPv3Repo\_ko.properties  
inflating: openamtools/resources/iwtAuthNT\_zh\_TW.properties  
inflating: openamtools/resources/amPll\_fr.properties

inflating: openamtools/resources/amsessiontoolssetup\_zh\_TW.properties  
inflating: openamtools/resources/amAuth\_es.properties  
inflating: openamtools/resources/fmLibertyPersonalProfileConfiguration\_ja.properties  
inflating: openamtools/resources/amConsole\_ko.properties  
inflating: openamtools/resources/amCommonUtils\_ja.properties  
inflating: openamtools/resources/authentication\_en.properties  
inflating: openamtools/resources/encode\_ja.properties  
inflating: openamtools/resources/workflowMessages\_ko.properties  
inflating: openamtools/resources/amIdRepo\_ja.properties  
inflating: openamtools/resources/libAuthnSvc.properties  
inflating: openamtools/resources/agentService\_ja.properties  
inflating: openamtools/resources/amIdRepo\_en.properties  
inflating: openamtools/resources/SMS\_zh\_TW.properties  
inflating: openamtools/resources/amConsole\_zh.properties  
inflating: openamtools/resources/amUpgrade\_ja.properties  
inflating: openamtools/resources/OpenSSOConfigurator\_zh.properties  
inflating: openamtools/resources/libBinarySecurityToken\_es.properties  
inflating: openamtools/resources/fmWSFederationConfiguration\_fr.properties  
inflating: openamtools/resources/libSAML2Meta\_zh\_TW.properties  
inflating: openamtools/resources/fmSOAPBindingConfiguration.properties  
inflating: openamtools/resources/libSAML2.properties  
inflating: openamtools/resources/amSession.properties  
inflating: openamtools/resources/libSAML\_ja.properties  
inflating: openamtools/resources/amIdRepoService\_fr.properties  
inflating: openamtools/resources/amConfigurator\_ja.properties  
inflating: openamtools/resources/libPAOS\_de.properties  
inflating: openamtools/resources/fmPersonalProfile\_es.properties  
inflating: openamtools/resources/debug\_es.properties  
inflating: openamtools/resources/schemaNames.properties  
inflating: openamtools/resources/libEncryption\_es.properties  
inflating: openamtools/resources/fmSAMLConfiguration\_ko.properties  
inflating: openamtools/resources/SMS\_zh.properties  
inflating: openamtools/resources/DSConfig\_ko.properties  
inflating: openamtools/resources/amClientData\_de.properties  
inflating: openamtools/resources/rsa\_api.properties  
inflating: openamtools/resources/fmPersonalProfile\_ko.properties  
inflating: openamtools/resources/amPl1\_zh\_TW.properties  
inflating: openamtools/resources/Services\_zh.properties  
inflating: openamtools/resources/sso\_fr.properties  
inflating: openamtools/resources/fmWebServicesClients\_es.properties  
inflating: openamtools/resources/amAuthConfig\_en.properties  
inflating: openamtools/resources/serviceDefaultValues.properties  
inflating: openamtools/resources/ums\_ko.properties  
inflating: openamtools/resources/libPAOS\_en.properties  
inflating: openamtools/resources/famLibertyInteractionService\_ja.properties  
inflating: openamtools/resources/fmSAML2Configuration\_en.properties  
inflating: openamtools/resources/famWSSAuth\_zh.properties  
inflating: openamtools/resources/amPasswordResetModuleMsgs\_ja.properties  
inflating: openamtools/resources/amPasswordResetModuleMsgs\_zh.properties  
inflating: openamtools/resources/amLDAPv3Repo.properties  
inflating: openamtools/resources/sso\_zh\_TW.properties  
inflating: openamtools/resources/libWSFederation\_zh.properties  
inflating: openamtools/resources/amAuthContext\_zh\_TW.properties  
inflating: openamtools/resources/libEncryption\_zh\_TW.properties  
inflating: openamtools/resources/amPolicy\_ja.properties  
inflating: openamtools/resources/ums\_ja.properties  
inflating: openamtools/resources/deployablewar.properties  
inflating: openamtools/resources/amSDK\_zh\_TW.properties  
inflating: openamtools/resources/fmMultiFederationProtocol\_zh.properties  
inflating: openamtools/resources/fmDataStoreProvider\_ko.properties  
inflating: openamtools/resources/ssoPatch\_en.properties  
inflating: openamtools/resources/fmSAML2SOAPBindingConfiguration\_ja.properties

inflating: openamtools/resources/webServiceSTSUI.properties  
inflating: openamtools/resources/deployablewar\_fr.properties  
inflating: openamtools/resources/famFederationCommon\_zh\_TW.properties  
inflating: openamtools/resources/agentService\_en.properties  
inflating: openamtools/resources/cliBase\_fr.properties  
inflating: openamtools/resources/amAuthContextLocal\_zh\_TW.properties  
inflating: openamtools/resources/famFederationCommon.properties  
inflating: openamtools/resources/amLDAPv3Repo\_en.properties  
inflating: openamtools/resources/amPolicy\_zh\_TW.properties  
inflating: openamtools/resources/amAdminConsole.properties  
inflating: openamtools/resources/famFederationCommon\_fr.properties  
inflating: openamtools/resources/amIdRepoService\_de.properties  
inflating: openamtools/resources/RestException\_fr.properties  
inflating: openamtools/resources/amCommonUtils\_fr.properties  
inflating: openamtools/resources/famLibertySecurityService\_en.properties  
inflating: openamtools/resources/amAuthUI\_zh.properties  
inflating: openamtools/resources/amSecurity\_zh.properties  
inflating: openamtools/resources/fmMultiFederationProtocol\_de.properties  
inflating: openamtools/resources/famLibertySecurityService\_de.properties  
inflating: openamtools/resources/libSAML2Meta\_zh.properties  
inflating: openamtools/resources/LDAPAuth\_ko.properties  
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inflating: openamtools/resources/debug\_ko.properties  
inflating: openamtools/resources/workflowMessages\_de.properties  
inflating: openamtools/resources/fmDiscoConfiguration\_fr.properties  
inflating: openamtools/resources/libSessionProvider.properties  
inflating: openamtools/resources/amsessiontoolssetup\_ko.properties  
inflating: openamtools/resources/libSystemConfiguration\_de.properties  
inflating: openamtools/resources/workflowMessages\_zh\_TW.properties  
inflating: openamtools/resources/fmWSSecurity\_en.properties  
inflating: openamtools/resources/DSConfig\_ja.properties  
inflating: openamtools/resources/libSAML2Meta.properties  
inflating: openamtools/resources/amPasswordReset\_en.properties  
inflating: openamtools/resources/amAuthConfig\_es.properties  
inflating: openamtools/resources/iwtAuthNT\_es.properties  
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inflating: openamtools/resources/libSAML2Meta\_ko.properties  
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inflating: openamtools/resources/amUpgrade\_en.properties  
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inflating: openamtools/resources/amClientData\_en.properties  
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inflating: openamtools/resources/libSessionProvider\_zh.properties  
inflating: openamtools/resources/fmConfiguratorPlugins.properties  
inflating: openamtools/resources/amLDAPv3Repo\_zh\_TW.properties  
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inflating: openamtools/resources/cliBase\_de.properties  
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inflating: openamtools/resources/fmSOAPBindingConfiguration\_fr.properties  
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inflating: openamtools/resources/amIdRepo\_zh.properties  
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inflating: openamtools/resources/amadm.properties

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inflating: openamtools/resources/fmServiceNames.properties  
inflating: openamtools/resources/amProfile\_es.properties  
inflating: openamtools/resources/amAuthUI\_zh\_TW.properties  
inflating: openamtools/resources/amMonitoring.properties  
inflating: openamtools/resources/fmAuthSAE\_zh.properties  
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inflating: openamtools/resources/famSTS.properties  
inflating: openamtools/resources/libSAML\_es.properties  
inflating: openamtools/resources/famIDFFConfiguration.properties  
inflating: openamtools/resources/sso\_ko.properties  
inflating: openamtools/resources/deployablewar\_en.properties  
inflating: openamtools/resources/cliBase\_es.properties  
inflating: openamtools/resources/amIdRepoService\_ja.properties  
inflating: openamtools/resources/libBinarySecurityToken\_de.properties  
inflating: openamtools/resources/OpenAMUpgrade\_es.properties  
inflating: openamtools/resources/libSOAPBinding\_de.properties  
inflating: openamtools/resources/amIdRepoService\_en.properties  
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inflating: openamtools/resources/fmAuthFederationConfiguration\_ko.properties  
inflating: openamtools/resources/amCommonUtils\_ko.properties  
inflating: openamtools/resources/amGllnSettings\_zh.properties  
inflating: openamtools/resources/workflowMessages\_fr.properties  
inflating: openamtools/resources/SecurID\_fr.properties  
inflating: openamtools/resources/amAuthConfig\_fr.properties  
inflating: openamtools/resources/amHa.properties  
inflating: openamtools/resources/ums\_de.properties  
inflating: openamtools/resources/webServiceUI.properties  
inflating: openamtools/resources/encode\_fr.properties  
inflating: openamtools/resources/fmCOTConfiguration\_de.properties  
inflating: openamtools/resources/fmSAML2Configuration\_zh.properties  
inflating: openamtools/resources/amPolicy\_ko.properties  
inflating: openamtools/resources/amNaming\_ja.properties  
inflating: openamtools/resources/amConfiguration.properties  
inflating: openamtools/resources/amWebAgent\_ja.properties  
inflating: openamtools/resources/amValidation\_en.properties  
inflating: openamtools/resources/agentService\_de.properties  
inflating: openamtools/resources/libIDPDiscovery\_es.properties  
inflating: openamtools/resources/workflowMessages\_zh.properties  
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inflating: openamtools/resources/fmSAML2SOAPBindingConfiguration\_en.properties  
inflating: openamtools/resources/fmDiscoConfiguration.properties  
inflating: openamtools/resources/fmIDFFConfiguration\_ko.properties  
inflating: openamtools/resources/amLogging\_de.properties  
inflating: openamtools/resources/fmSessionProvider\_zh\_TW.properties  
inflating: openamtools/resources/ssoPatch\_de.properties  
inflating: openamtools/resources/libSystemConfiguration\_ja.properties  
inflating: openamtools/resources/fmWSSProvider\_es.properties  
inflating: openamtools/resources/amAdminConsole\_ja.properties  
inflating: openamtools/resources/fmWSSProvider.properties  
inflating: openamtools/resources/amUser\_fr.properties  
inflating: openamtools/resources/fmMultiFederationProtocol.properties  
inflating: openamtools/resources/libSessionProvider\_zh\_TW.properties  
inflating: openamtools/resources/libInteraction.properties  
inflating: openamtools/resources/amPasswordResetModuleMsgs.properties  
inflating: openamtools/resources/fmSAML2Configuration\_fr.properties  
inflating: openamtools/resources/fmAuthFederationConfiguration.properties  
inflating: openamtools/resources/deployablewar\_ko.properties  
inflating: openamtools/resources/bootstrap.properties  
inflating: openamtools/resources/famWSSAuth\_en.properties  
inflating: openamtools/resources/amClientDetection\_en.properties  
inflating: openamtools/resources/famFederationCommon\_ko.properties  
inflating: openamtools/resources/libPAOS\_ja.properties  
inflating: openamtools/resources/DSConfig\_de.properties  
inflating: openamtools/resources/RestException\_ja.properties  
inflating: openamtools/resources/fmDataStoreProvider\_en.properties  
inflating: openamtools/resources/fmAuthSAE\_ja.properties  
inflating: openamtools/resources/libWSFederation\_fr.properties  
inflating: openamtools/resources/amMonitoring\_en.properties  
inflating: openamtools/resources/fmWebServicesClients\_en.properties  
inflating: openamtools/resources/fmWebServicesClients\_de.properties  
inflating: openamtools/resources/serverAttributeMap.properties  
inflating: openamtools/resources/libIDPDiscoveryConfig\_zh.properties  
inflating: openamtools/resources/libSessionProvider\_fr.properties  
inflating: openamtools/resources/fmWSFederationConfiguration\_es.properties  
inflating: openamtools/resources/amPlatform\_es.properties  
inflating: openamtools/resources/EntitlementException\_es.properties  
inflating: openamtools/resources/libSystemConfiguration\_ko.properties  
inflating: openamtools/resources/fmIDFFConfiguration.properties  
inflating: openamtools/resources/fmSAMLConfiguration\_es.properties  
inflating: openamtools/resources/libIDFFMeta.properties  
inflating: openamtools/resources/amValidation\_fr.properties  
inflating: openamtools/resources/amPlatform\_zh\_TW.properties  
inflating: openamtools/resources/amConfigurator\_zh\_TW.properties  
inflating: openamtools/resources/amUser\_zh\_TW.properties  
inflating: openamtools/resources/libDSTService\_zh.properties  
inflating: openamtools/resources/amDelegation\_zh\_TW.properties  
inflating: openamtools/resources/libXACML\_zh\_TW.properties  
inflating: openamtools/resources/amAgent\_en.properties  
inflating: openamtools/resources/libIDPDiscovery\_ja.properties  
inflating: openamtools/resources/libDSTService\_fr.properties  
inflating: openamtools/resources/amConfiguration\_en.properties  
inflating: openamtools/resources/amAdminConsole\_zh.properties  
inflating: openamtools/resources/fmConfigurationService\_zh.properties  
inflating: openamtools/resources/workflowMessages\_es.properties  
inflating: openamtools/resources/libPAOS\_es.properties  
inflating: openamtools/resources/amAuthContext\_de.properties  
inflating: openamtools/resources/AGBits.properties



```
inflating: openamtools/resources/famWSSAuth_zh_TW.properties
inflating: openamtools/NOTICE.resolver.txt
inflating: openamtools/commons-digester-license.txt
inflating: openamtools/README.setup
inflating: openamtools/sampleconfiguration
inflating: openamtools/openam-distribution-upgrade-10.1.0-Xpress.jar
inflating: openamtools/LICENSE-SAX.html
inflating: openamtools/commons-logging-license.txt
inflating: openamtools/rome-license.txt
inflating: openamtools/license.txt
  creating: openamtools/debug/
inflating: openamtools/debug/IdRepo
inflating: openamtools/debug/Configuration
inflating: openamtools/debug/CoreSystem
inflating: openamtools/debug/Session
inflating: openamtools/debug/Authentication
inflating: openamtools/sampleupgrade
  creating: openamtools/auth/
  creating: openamtools/auth/bin/
inflating: openamtools/auth/bin/ssoadm
inflating: openamtools/auth/bin/ampassword
inflating: openamtools/auth/bin/amverifyarchive
inflating: openamtools/asm-core-license.txt
inflating: openamtools/LICENSE.resolver.txt
inflating: openamtools/openam-distribution-configurator-10.1.0-Xpress.jar
extracting: openamtools/pwd.txt
inflating: openamtools/jdom-license.txt
  creating: openamtools/classes/
inflating: openamtools/classes/odsee_config_schema.ldif
inflating: openamtools/classes/odsee_config_index.ldif
inflating: openamtools/NOTICE.serializer.txt
inflating: openamtools/LICENSE.DOM-documentation.html
inflating: openamtools/commons-fileupload-license.txt
inflating: openamtools/setup
  creating: openamtools/template/
  creating: openamtools/template/windows/
  creating: openamtools/template/windows/bin/
inflating: openamtools/template/windows/bin/amverifyarchive.bat.template
inflating: openamtools/template/windows/bin/ssoadm.bat.template
inflating: openamtools/template/windows/bin/ampassword.bat.template
  creating: openamtools/template/unix/
  creating: openamtools/template/unix/bin/
inflating: openamtools/template/unix/bin/ampassword.template
inflating: openamtools/template/unix/bin/ssoadm.template
inflating: openamtools/template/unix/bin/amverifyarchive.template
inflating: openamtools/jtsl-license.txt
inflating: openamtools/LICENSE.serializer.txt
inflating: openamtools/icefaces-license.txt
The OpenAM Tools have been extracted to the following folder: /opt/openamtools.
```

Note: A clear screen operation is performed here. The following appears on a new screen:

```
*****
*
* SBAC Environment OpenAM Installation Script
*
* Phase 4: Add Server to Existing Configuration
*
* In this phase, the script will add this server to the configuration
* of OpenAM on sbacssotest1.uat.openam.airast.org
*
*****
Hit the <ENTER> key to continue

Adding this server to the configuration of OpenAM on sbacssotest1.uat.openam.airast.org (this may
take a few moments)...
Checking configuration directory /opt/openam...Success.
Installing OpenAM configuration store...Success RSA/ECB/OAEPWithSHA1AndMGF1Padding.
Extracting OpenDJ, please wait...Complete
Running OpenDJ setupSetup command: --cli --adminConnectorPort 4444 --baseDN
dc=openam,dc=forgerock,dc=org --rootUserDN cn=Directory Manager --ldapPort 50389 --skipPortCheck
--rootUserPassword xxxxxxxx --jmxPort 1689 --no-prompt --configFile
/opt/openam/opends/config/config.ldif --doNotStart --hostname sbacssotest2.uat.openam.airast.org
%0AOpenDJ+2.4.6%0APlease+wait+while+the+setup+program+initializes...%0A%0ASee+%2Fopt%2Ftomcat%2Ft
emp%2Fopends-setup-
4210702671629321353.log+for+a+detailed+log+of+this+operation.%0A%0AConfiguring+Directory+Server+.
...+Done.%0A%0ATo+see+basic+server+configuration+status+and+configuration+you+can+launch+%2Fopt%
2Fopenam%2Fopends%2Fbin%2Fstatus%0A...Success.
...Success
Installing OpenAM configuration store in /opt/openam/opends...Success.
Tag swapping schema files...Success.
Loading Schema opendj_config_schema.ldif...Success.
Loading Schema opendj_user_schema.ldif...Success.
Loading Schema opendj_embinit.ldif...Success.
Loading Schema opendj_user_index.ldif...Success.
Loading Schema opendj_plugin.ldif...Success.
Loading Schema cts-container.ldif...Success.
Loading Schema cts-add-schema.ldif...Success.
Loading Schema cts-indices-schema.ldif...Success.
Loading Schema 99-oauth2attributes.ldif...Success.
...Success.
Creating OpenAM configuration store replicaReplication command: enable --no-prompt --host1
sbacssotest1.uat.openam.airast.org --port1 4444 --bindDN1 cn=Directory Manager --bindPassword1
xxxxxxxx --replicationPort1 50889 --host2 sbacssotest2.uat.openam.airast.org --port2 4444 --
bindDN2 cn=Directory Manager --bindPassword2 xxxxxxxx --replicationPort2 58989 --adminUID admin -
-adminPassword xxxxxxxx --baseDN dc=openam,dc=forgerock,dc=org --trustAll --configFile
/opt/openam/opends/config/config.ldif
%0AEstablishing+connections+...+Done.%0AThe+following+errors+were+encountered+reading+the+confi
guration+of+the%0Aexisting+servers%3A%0AError+on+sbacssotest2.uat.openam.airast.org%3A4444%3AAn+
error+occurred+connecting%0Ato+the+server.+Details%3A+javax.naming.AuthenticationException%3A%5
BLDAP%3A+error%0Acode+49+-
+Invalid+Credentials%5D%0AThe+replication+tool+will+to+try+to+update+the+configuration+of+all+the
%0Aservers+in+a+best-
effort+mode.+However+it+cannot+guarantee+that+the+servers%0Athat+are+generating+errors+will+be+u
pdated.%0AChecking+registration+information+...+Done.%0AUpdating+remote+references+on+server+sb
acssotest1.uat.openam.airast.org%3A4444+...+Done.%0AConfiguring+Replication+port+on+server+sbac
ssotest2.uat.openam.airast.org%3A4444+...+Done.%0AUpdating+replication+configuration+for+baseDN
+dc%3Dopenam%2Cdc%3Dforgerock%2Cdc%3Dorg+on+server+sbacssotest1.uat.openam.airast.org%3A4444+...
.+Done.%0AUpdating+replication+configuration+for+baseDN+dc%3Dopenam%2Cdc%3Dforgerock%2Cdc%3Dorg+o
n+server+sbacssotest2.uat.openam.airast.org%3A4444+...+Done.%0AUpdating+replication+configurati
```

```

on+for+baseDN+dc%3Dopenam%2Cdc%3Dforgerock%2Cdc%3Dorg+on+server+sbacssotest3.uat.openam.airast.org%3A4444+....+Done.%0AUpdating+remote+references+on+server+sbacssotest3.uat.openam.airast.org%3A4444+....+Done.%0AUpdating+registration+configuration+on+server+sbacssotest1.uat.openam.airast.org%3A4444+....+Done.%0AUpdating+registration+configuration+on+server+sbacssotest2.uat.openam.airast.org%3A4444+....+Done.%0AUpdating+registration+configuration+on+server+sbacssotest3.uat.openam.airast.org%3A4444+....+Done.%0AUpdating+replication+configuration+for+baseDN+cn%3Dschema+on+server+sbacssotest1.uat.openam.airast.org%3A4444+....+Done.%0AUpdating+replication+configuration+for+baseDN+cn%3Dschema+on+server+sbacssotest2.uat.openam.airast.org%3A4444+....+Done.%0AUpdating+replication+configuration+for+baseDN+cn%3Dschema+on+server+sbacssotest3.uat.openam.airast.org%3A4444+....+Done.%0AInitializing+registration+information+on+server+sbacssotest2.uat.openam.airast.org%3A4444+with+the+contents+of+server+sbacssotest1.uat.openam.airast.org%3A4444+....+Done.%0A%0AREplication+has+been+successfully+enabled.+Note+that+for+replication+to+work+you+must+initialize+the+contents+of+the+base+DN%27s+that+are+being+replicated+%28use+dsreplication+initialize+to+do+so%29.%0A%0ASee+%2Fopt%2Ftomcat%2Ftemp%2Fopends-replication-4723370614026204918.log+for+a+detailed%0Alog+of+this+operation.%0A%0A...Success.
Replication command: initialize --no-prompt --baseDN dc=openam,dc=forgerock,dc=org --adminUID admin --adminPassword xxxxxxxx --hostSource sbacssotest1.uat.openam.airast.org --portSource 4444 --hostDestination sbacssotest2.uat.openam.airast.org --portDestination 4444 --trustAll --configFile /opt/openam/opends/config/config.ldif
%0AInitializing+base+DN+dc%3Dopenam%2Cdc%3Dforgerock%2Cdc%3Dorg+with+the+contents+from+sbacssotest1.uat.openam.airast.org%3A4444%3A%0A527+entries+processed+%28100+%25+complete%29.%0ABase+DN+initialized+successfully.%0A%0ASee+%2Fopt%2Ftomcat%2Ftemp%2Fopends-replication-4723370614026204918.log+for+a+detailed%0Alog+of+this+operation.%0A%0A...Success.
...Success.
Reinitializing system properties....Done
Configuring server instance....Done
Setting up monitoring authentication file.
Configuration complete!

```

Stopping tomcat...

```

Using CATALINA_BASE:   /opt/tomcat
Using CATALINA_HOME:   /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar

```

Starting tomcat...

```

Using CATALINA_BASE:   /opt/tomcat
Using CATALINA_HOME:   /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar

```

Tomcat restarted.

Install complete. You may now access the system at  
<https://sbac.uat.openam.airast.org:443/auth/UI/Login>.  
The end user change password URL is  
<https://sbac.uat.openam.airast.org:443/auth/idm/EndUser?action=pw>.  
The Logout URL is <https://sbac.uat.openam.airast.org:443/auth/UI/Logout>.

Have a nice day!