



Kuali Coeus (KC) Installation Guide

Release v. 3.1.1

9/9/2011

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Downloading, Installing, and Configuring

Installation Basics and High-Level Overview

This topic describes how to install Kuali Coeus on a single server. The Kuali Coeus application binaries and source code are included as part of the installation distribution.

The Kuali Coeus application assists in the accessibility, administration and support of research information. There are many components that are working together to configure and install Kuali Coeus. The core system is known as Kuali Rice (KR), which is a set of integrated middleware products that allows Kuali Coeus to interface with technical modules running from a web server. Kuali Rice facilitates enterprise workflow functionality and provides customizable and configurable user interfaces that have a clean and universal look and feel. Kuali Rice contains five core modules of which two are actively used in Kuali Coeus. Kuali Enterprise Workflow (KEW) monitors document routing and approval while automating electronic processes and transactions across the enterprise. The Kuali Nervous System (KNS) alternately handles functionality common to many modules and can be thought of as a framework of reusable components providing an abstraction layer for developers to easily integrate with other Kuali Rice components.

Kuali Coeus scales depending upon your environment needs and therefore allows for various architectural choices to be implemented during installation. This topic covers the essential architectural components that are vital to the overall operation of the system. Kuali Coeus handles data storage using a database to maintain records. Care must be taken to ensure that the database remains accessible during times when Kuali Coeus is active. The Kuali Coeus application server manages data for presentation through a web browser.



Technical Requirements

Kuali Coeus is versatile in its ability to deploy on numerous platforms but has only been tested on a select set of platforms. This section describes specific requirements to install Kuali Coeus.

System Server

This section outlines the minimum **server requirements** for Kuali Coeus.

- **Hardware:** Recommended minimum hardware for the web application is 2 cores of a recent CPU architecture along with 2 gig of reserved RAM. Minimum hardware and settings for the database should be based on vendor recommendations, but there should be high bandwidth with low latency between the web application and database as this is a database intensive application.
- **Operating Systems:** Any OS which supports either MySQL or Oracle databases should work, including Solaris, but it has been run on Windows, Linux (Ubuntu and RedHat distributions), and MacOSX.
- **Web Application Platform:** The Web application platform can be any fully compliant modern J2EE container. Testing has been done with Jetty 6.1, Tomcat 5.5, and Tomcat 6.
- **Heap Space:** The Webapp generally requires 1 gig of heap space (-Xmx1g) and 256 meg of perm gen space (-XX:MaxPermSize=256m) to start and run. For production use, at least 2 gig of heap and 512 meg of perm gen space are recommended.
- **Other Recommended Settings:** Other recommended settings are -server (to improve resource utilization for long-running tasks) and -XX:+UseConcMarkSweepGC (to improve garbage collection performance).

Supporting Application Software

This section outlines the minimum **software requirements** for Kuali Coeus.

- Sun Microsystems Java Development Kit (JDK 1.5.x minimum, JDK 1.6 recommended)
- Web Application Server (Apache 2.x) – as needed, depending on network infrastructure
- Servlet container (Apache Tomcat 5.5.x)
- Web Browser (Firefox 1.5.x, Internet Explorer 6.x or Safari 2.0.4.x)
- Apache Ant 1.7.x
- Maven 2.0.x
- Oracle Database 10g Release 2 (10.2.0.x)
- Oracle Database 10g Release 2 (10.2.0.x) JDBC Driver
- MySQL 5.x
- MySQL Connector/J



Database

This section outlines the minimum database **requirements** for Kuali Coeus.

KC has been tested against Oracle and MySQL. Supported versions of database products that Kuali Coeus has been tested with are as follows:

- Oracle10g/11g: JDBC drivers for Oracle can be obtained from <http://www.oracle.com/index.html>
- MySQL: JDBC drivers for MySQL can be obtained from www.mysql.com

KC requires a User Account with access **permissions** to the database to perform the following:

- Connect to the database
- Create, Alter and Drop Tables, Triggers, Views, Procedures and Sequences
- Insert, Update and Delete data in the database tables

KC recommends the following database **settings**:

- For MySQL running on a case-sensitive OS (i.e., Linux) it is recommended to use settings to force all table names to lowercase (see other MySQL recommended settings in the Rice documentation).

Distribution Download

To download Kuali Coeus, navigate to the following site and fill out the download form appropriately:

<http://www.kuali.org/download-form>

The Kuali Coeus distribution is available from the Kuali Foundation at

https://test.kuali.org/svn/kc_project/tags/kc-project-3_1_1-tag/

The Kuali Coeus download contains:

- Kuali Coeus source code
- Database scripts – Full install, 3.0 to 3.1.1 upgrade, 3.0.1 to 3.1.1 upgrade and 3.1 to 3.1.1 upgrade
- Binary distribution
- Installation Guide (this document)
- Project licenses
- Kuali Coeus User Manual (PDF)
- Integrated Application Help (HTML)
- Release Notes
- List of known bugs

Extract the ZIP file that you downloaded to the folder of your choice.

Quickstart Setup

Use the following installation instructions to guide you through the baseline out-of-the-box setup.









Information on more **advanced configuration and customization** can be found in the [public documentation](#).





Before You Begin - The following are required:

- Java 1.5
- Servlet 2.4 / JSP 2.0 Compatible Servlet Container such as Apache Tomcat 5.5
- Oracle database instance or MySQL database instance

	<p>To set up KC (and Rice) database:</p> <p>KC database release contains all SQL scripts needed to install a new schema or upgrade a KC 3.0 or 3.0.1 database using Rice bundled or embedded mode with the database objects (tables, constraints, bootstrap data) for the KC application.</p> <p>If installing in an embedded Rice environment you will be prompted to install/upgrade Rice. If your Rice server has been upgraded already you will answer no to the question (KC-specific data will still be added to your Rice server).</p>
	<p>Installation Steps for Oracle</p> <hr/> <p> Installation has been tested with sqlplus and SQL Developer. Other tools may require modification of the scripts.</p> <hr/>
1.	Create Oracle username of less than 8 characters
2.	<p>Make sure Oracle user has following privileges:</p> <ul style="list-style-type: none"> * DEFAULT TABLESPACE set to <Users Tablespace> (the intended location where the schema database structures and base bootstrap data are stored). * QUOTA UNLIMITED ON <Users Tablespace> * CREATE SESSION * CREATE SYNONYM * CREATE PROCEDURE * CREATE TRIGGER * CREATE TABLE * CREATE TYPE * CREATE VIEW * CREATE SEQUENCE <hr/> <p> A user's DEFAULT TABLESPACE is set with the CREATE USER statement or ALTER USER statement. The TABLESPACE should not be the SYSTEM tablespace.</p> <hr/> <p> A New install will COMPLETELY clear data from any existing KC tables in this schema!</p> <hr/>

Installation Steps for MySQL	
 Installation has been tested with mysql client. Other tools may require modification of the scripts.	
1.	Set the following settings in MySQL: max_allowed_packet=1M transaction-isolation=READ-COMMITTED lower_case_table_names=1 max_connections=1000
2.	Create MySQL username of less than 8 characters.
3.	Create MySQL default schema for username with the default character set of UTF8. If a different character set is desired, the ddl scripts will need to be updated to the new character set.
4.	<p>Make sure MySQL user has following privileges on the schema</p> <ul style="list-style-type: none"> * Select * Insert * Update * Delete * Create * Drop * Index * Alter * Create_view * Create_routine * Alter_routine * Create_tmp_table * Lock_tables <p> Be sure the schema is empty before a NEW installation.</p>
End of activity.	

	To populate data into KC (and Rice) database:
Installation Steps for Both Oracle and MySQL	

1.	Run the appropriate install script in db_scripts/main (KC_Install.bat for Windows or KC_Install.sh for Linux/Unix).
2.	<p>You will be prompted for the following:</p> <ul style="list-style-type: none"> - Rice Mode = Choose one: Bundle, Embed - DB_Server = Choose one: Oracle, MySQL - Version = Choose one: New, 3.0, 3.0.1, 3.1 - username = The KC database username name to install database scripts with (bundled Rice goes here too). - password = the password for username - DB_server_name = the tns name (Oracle) or schema name (MySQL) used to connect to KC database. <p>If embedded mode selected the following will be asked:</p> <ul style="list-style-type: none"> - Rice Username = the Rice database username to install rice scripts with (embedded Rice). - Rice Password = password for Rice username - Rice DB Server name = the tns/schema name used to connect to Rice database. - Do you wish to Install/Upgrade your Embedded Rice Server (Don't perform if your server was upgraded separately)
3.	Review .log files for installation errors (in LOGS directory).
4.	<p>(Optional) Install demonstration data. Convenience install scripts for demonstration data can be found in the db_scripts/main folder (KC_Install_Demo.sh/bat) . The demonstration data is only guaranteed to install cleanly into a new KC install. If you have previous test data or demonstration data then you will encounter errors, which may or may not affect functionality.</p> <hr/> <p> Demonstration data is for testing functionality of the software only and should not be included in an actual implementation. Take a backup of your database before applying demonstration data or be prepared to reinstall from scratch before implementation.</p> <hr/>
End of activity.	



To set up KC Application:


1. Be sure database is setup and populated with KC and Rice data (as instructed above).
2. Place binary/kc-config.xml in one of the configured default locations: {Userhome}/kuali/main/ptd/kc-config.xml OR /opt/sa_forms/java/ptd/kra/kc-config.xml.




If you are upgrading and have an existing kc-config.xml in this location, please replace it and merge any customizations, as new parameters are often added.

- On Windows with Tomcat running as a service, the best location is usually c:\kuali\main\ptd
- To use a different location, open kc-ptd.war and create an "alt.config.location" parameter in /WEB-INF/classes/META-INF/kc-config-build.xml.
- You SHOULD also be able to pass a java parameter of alt.config.location to your j2ee container (not

guaranteed to work)

 This file also contains the "build.environment" parameter referenced in the external kc-config.xml file as "environment"

3. Edit parameters in the external kc-config.xml (that you just placed in step #2) as desired.
 - You will at least need to fill in the following parameters with your database connection information: datasource.url, datasource.username, datasource.password.
 - You will also need to change application.host to your server's host name (i.e. kuali.yourinstitution.edu).
 - Other commonly changed parameters are: application.http.scheme, http.port and app.context.name (be sure app.context.name matches your deployed webapp -- normally the name of your war file)
 - If you are using SSL, be sure that application.http.scheme and http.port reflect this.
 - If you are using MySQL, see the MySQL changes at the end of this guide.

 For embedded mode or further configuration, please consult "Embedded Mode" on page 9.

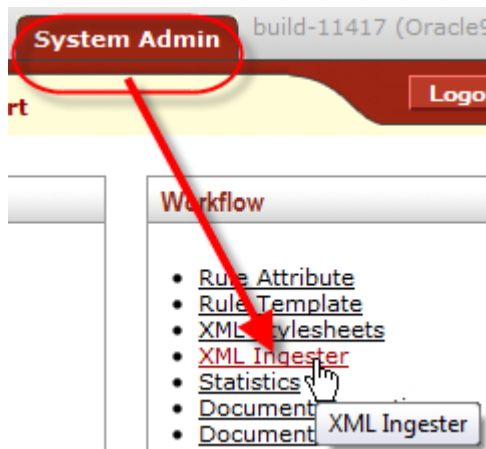
4. **For Oracle:** Obtain ojdbc14.jar from an oracle client install ({OracleHome}/jdbc/lib) or the Oracle website (<http://www.oracle.com>).

For MySQL: Obtain the jar file for the appropriate MySQL jdbc driver from mysql.com.

Copy the jdbc jar file into the common jar file library.

Example: For Tomcat 5.5, copy ojdbc14.jar into {tomcat install dir}/common/lib.

5. Deploy kc-ptd.war to your servlet container (see user guide for your particular servlet container).
6. The KC application should now be accessible at: {application.host}/{app.context.name} (as specified in the external kc-config.xml -- app.context.name is kc-ptd, if not overridden).
7. Login as 'admin' (click on a tab or option and the login screen will appear).
8. Ingest the KEW documents.
 - Click the System Admin tab and then select XML Ingestor from the Workflow pane.



- Find the KEW zip files in the distribution package (they are located in subdirectories under db_scripts)



- If you did a NEW install, you should ingest Full-KC-KEW.zip
- If you did an UPGRADE install, you may ingest only the ones under the respective release subdirectories or Full-KC-KEW.zip to be certain you don't miss any (but it will take longer).
- If you ingest individual zips rather than Full-KC-KEW.zip, be sure to ingest them in order of release
- Ingestion can take several minutes per zip file (up to around 20 minutes for the Full-KC-KEW.zip file), during which time the activity indicator on your browser will just stay animated.
- MySQL changes to external kc-config.xml file -- adjust datasource.url as needed to fit your install:

```
<param name="datasource.url">jdbc:mysql://localhost:3306/kcdev</param>  
<param name="datasource.objb.platform">MySQL</param>
```

End of activity.

Configuration Parameters



Tip: Refer to “[Appendix A: Configuration Parameters](#)” on page 12 within this documentation set for supplementary information that will prove helpful by providing default values and handy tips for both KC-specific and Rice parameters.

Embedded Mode

Embedded mode allows you to run KC with a central Rice server. This has the benefit of a central Doc Search, Action List, and KIM maintenance.

It also allows some processing to be offloaded to the rice server, which provides different scaling characteristics. Embedded mode is currently the preferred deployment model.



For a more detailed description of embedded mode, see the Rice documentation [<https://test.kuali.org/confluence/display/KULRICE/Documentation>].

Standalone Rice

- 1) Create/Configure Rice Server Database
- 2) Configure Standalone Rice Server (see example-config/rice-config.xml in the rice project)
- 3) Startup Rice server

Running KC Client Application In Embedded Mode

- 1) Create/Configure KC Database (This will include the Rice Client tables and KC's tables).

To setup KC database in Embedded Mode:

- Run the Database setup script
- Select EMBED for your Rice mode
- For Install/Upgrade Embedded Rice Server Side
 - Select Y if you need to cleanly install a new Rice database along with KC data
 - Select N if you need to upgrade an existing Rice database with KC data

- 2) Configure KC.

To run KC in Embedded Mode:

- Point KC to the client & server databases
- Configure the Rice URL
- Turn off dev-mode
- Set the run modes to embedded for the Rice modules
- Configure a valid keystore for secure communication with Rice



Example Embedded Mode Configuration File

```
<!-- KC Client DB -->
<param name="datasource.url">jdbc:oracle:thin:@127.0.0.1:1521:XE</param>
<param name="datasource.username">>KCDEV</param>
<param name="datasource.password">secret</param>
<param name="datasource.objb.platform">Oracle9i</param>

<!-- For Embedded Mode -->
<param name="rice.app.url">http://127.0.0.1:8081/kr-dev</param>

<param name="kim.runmode">embedded</param>
<param name="kcb.runmode">embedded</param>
<param name="kew.runmode">embedded</param>
<param name="ken.runmode">embedded</param>

<param name="dev.mode">>false</param>

<!-- Rice Server DB -->
<param name="server.datasource.url">jdbc:oracle:thin:@127.0.0.1:1521:XE</param>
<param name="server.datasource.username">>RICEDEV</param>
<param name="server.datasource.password">secret</param>
<param name="server.datasource.objb.platform">Oracle9i</param>

<!-- Keystore Configuration -->
<param name="keystore.file">
${user.home}/kuali/main/${environment}/rice.keystore
</param>
<param name="keystore.alias">rice</param>
<param name="keystore.password">r1c3pw</param>
```

3) Startup KC.

4) Verify the configuration.

To verify the configuration, try the following:

- Create a proposal document. Save it. Close it. From the main portal page click on Action List -> Find the Proposal -> Log -> Future Action Requests



- Go to System Admin Tab. Try Person Maintenance or Parameter Maintenance. These pages should work correctly and they should link to the central rice server.

Where To Find More KC Technical Documentation

The following is a list of links to other sources of information related to Kuali Coeus installation, and references to additional online resources where you can find more information that may prove to be helpful for installation activities:

Kuali Resources

- **KC Technical Documentation:** <https://test.kuali.org/confluence/display/KRACOEUS/KC+Technical+Documentation>
- **Kuali Rice Documentation:** <https://test.kuali.org/confluence/display/KULRICE/Documentation>
- **KC Implementation Collaboration Group:** <https://test.kuali.org/confluence/display/KRADOC/Collaboration>
- **KC System Requirements:** <https://test.kuali.org/confluence/display/KRADOC/System+Requirements>
- **Grants.gov Server Configuration:** <https://test.kuali.org/confluence/display/KRADOC/Grants.gov+Server+Configuration>
- **Kuali Coeus Implementation SIG:** <https://test.kuali.org/confluence/display/KRADOC/Kuali+Coeus+Implementation+SIG>
- **KC Technical Toolset:** <https://test.kuali.org/confluence/display/KRADOC/KC+Technical+Toolset>
- **Kuali Coeus Research Administration SIG wiki page:** <https://test.kuali.org/confluence/display/KRACOEUS/Collaboration>
- **Kuali Architecture and Development Standards:** <http://kuali.org/files/pdf/KualiStandards.pdf>
- **KC Test Drive:** <http://kra.testdrive.kuali.org/kra-ptd/portal.jsp>

Tomcat Resources

- **The Apache Tomcat 5.5 Servlet/JSP Container:** <http://tomcat.apache.org/tomcat-5.5-doc/index.html>
- **The Apache Jakarta Project:** <http://jakarta.apache.org/>

Eclipse Resources

- **Eclipse Documentation:** <http://www.eclipse.org/documentation/>

Oracle Resources

- **Oracle Database Express Edition Getting Started Guide:** http://download.oracle.com/docs/cd/B25329_01/doc/admin.102/b25610/toc.htm
- **Oracle Express Edition Tutorial:** <http://st-curriculum.oracle.com/tutorial/DBXETutorial/index.htm>

Appendix A: Configuration Parameters

This topic provides information that pertains to the following **two types of configuration parameters**:

- **KC-Specific** - Parameters defined specifically for KC
- **KC-Customized Rice** - Customizations of parameters provided by Rice

The following information is provided for **each parameter**:

- **Name** – The parameter name, for example, ‘build.properties’
- **Purpose** – A textual description of the parameter’s purpose
- **Default Value** – The pre-configured value prior to customization
- **Notes** – Information that aids in the understanding of proper usage

build.environment

Purpose: The environment the application is running in (ex: dev, prd, tst).

Default Value: dev

Notes: Since the Rice param environment=\${build.environment}, this parameter is indirectly used by rice to construct urls and resolve config files.

build.version

Purpose: The version number displayed on the application header.

Default Value: NO VERSION

Notes: Since the rice param version=\${build.version}, this parameter is indirectly used by rice for display purposes.

kim.runmode

Purpose: Used to set the runmode of the KIM module.

Default Value: local

Notes: KC currently supports local (bundled) & embedded. We have not tested in a mixed runmode configuration. See the rice documentation for mode information on the various runmodes (deployment models).

kcb.runmode

Purpose: Used to set the runmode of the kcb module.

Default Value: local

Notes: (see kim.runmode)

kew.runmode

Purpose: Used to set the runmode of the kew module.

Default Value: local

Notes: (see kim.runmode)

ken.runmode

Purpose: Used to set the runmode of the ken module.

Default Value: local



Notes: (see kim.runmode)

dev.mode

Purpose: Used when setting the runmode.

Default Value: TRUE

Notes: set to false when running in embedded mode. See rice documentation for more details.

rice.app.url

Purpose: The url to the rice server.

Default Value: \${application.url}

Notes: For local (bundled mode) this defaults to the kc client url. For embedded mode this will point to a standalone server.

kra.externalizable.images.url

Purpose: The url to kc specific images.

Default Value: /\${app.context.name}/static/images/

Notes:

core.rice.struts.message.resources

Purpose: rice's message bundle(s)

Default Value: KR-

ApplicationResources,org.kuali.rice.kew.ApplicationResources,org.kuali.rice.ksb.messaging.ApplicationResources,KIM-ApplicationResources

Notes: (see rice.struts.message.resources)

kc.struts.message.resources

Purpose: KC's message bundle(s)

Default Value: ApplicationResources

Notes: (see rice.struts.message.resources)

rice.struts.message.resources

Purpose: Message bundle names to load.

Default Value: \${core.rice.struts.message.resources}, \${kc.struts.message.resources}

Notes: In the rice parameter rice.struts.message.resources messages in the bundles on the right will override the same messages in bundles on the left. Given the default values, if a property [display.name=the display name] exists in the org.kuali.rice.ksb.messaging.ApplicationResources and ApplicationResources (kc's message bundle) kc's message will take precedent.

datasource.url

Purpose: the url of the client (or client & rice) database

Default Value: jdbc:oracle:thin:@127.0.0.1:1521:KUALI

Notes: in embedded mode this will be the KC database only. In bundled mode this will be the KC database & the rice database. See rice documentation for additional details



datasource.username

Purpose: username of the client (or client & rice) database

Default Value: KRADEV

Notes: (see datasource.url)

datasource.password

Purpose: password of the client (or client & rice) database

Default Value: ask your team

Notes: (see datasource.url)

datasource.platform

Purpose: platform of the client (or client & rice) database

Default Value: Oracle9i

Notes: (see datasource.url)

server.datasource.url

Purpose: rice server database property

Default Value: \${datasource.url}

Notes: in embedded mode this will be the Rice database only. In bundled mode this will be the KC database & the rice database. See rice documentation for additional details

server.datasource.username

Purpose: rice server database property

Default Value: \${datasource.username}

Notes: (see server.datasource.url)

server.datasource.password

Purpose: rice server database property

Default Value: \${datasource.password}

Notes: (see server.datasource.url)

server.datasource.ojb.platform

Purpose: rice server database property

Default Value: \${datasource.ojb.platform}

Notes: (see server.datasource.url)

server.datasource.platform

Purpose: rice server database property

Default Value: \${datasource.platform}

Notes: (see server.datasource.url)

server.datasource.driver.name

Purpose: rice server database property

Default Value: \${datasource.driver.name}

Notes: (see server.datasource.url)

server.datasource.pool.validationQuery

Purpose: rice server database property

Default Value: \${datasource.pool.validationQuery}

Notes: (see server.datasource.url)

server.datasource.pool.maxWait

Purpose: rice server database property

Default Value: \${datasource.pool.maxWait}

Notes: (see server.datasource.url)

server.datasource.pool.minSize

Purpose: rice server database property

Default Value: \${datasource.pool.minSize}

Notes: (see server.datasource.url)

server.datasource.pool.maxSize

Purpose: rice server database property

Default Value: \${datasource.pool.maxSize}

Notes: (see server.datasource.url)

server.datasource.pool.size

Purpose: rice server database property

Default Value: \${datasource.pool.size}

Notes: (see server.datasource.url)

server.datasource.connectionTimeout

Purpose: rice server database property

Default Value: \${datasource.connectionTimeout}

Notes: (see server.datasource.url)

keystore.alias

Purpose: The alias for the rice keystore file.

Default Value: onestartshreddservices-devandtst

Notes: required for kc client application to communicate with a standalone rice server (embedded mode)

keystore.file

Purpose: The path & file name to the rice keystore file.



Default Value: kul

Notes: (see keystore.alias)

keystore.password

Purpose: The password for the rice keystore file.

Default Value: kulpass

Notes: (see keystore.alias)

filter.login.class

Purpose: specifies a servlet filter class named login

Default Value: org.kuali.rice.kew.web.DummyLoginFilter

Notes: This class will probably change to a single sign on solution. This class should not be used in production.

filtermapping.login.1

Purpose: maps all requests to go through the login filter

Default Value: /*

Notes:

application.custom.image.url.copyoneper

Purpose: Specifies a non-default location for an image in question framework

Default Value: /\${app.context.name}/static/images/buttonsmall_copyallperiods.gif

Notes: this probably doesn't need to change

application.custom.image.url.copyallperiods

Purpose: Specifies a non-default location for an image in question framework

Default Value: /\${app.context.name}/static/images/buttonsmall_copyoneper.gif

Notes: this probably doesn't need to change

s2s.keystore.location

Purpose: The absolute path to Keystore file for grants.gov.

Default Value: path to keystore

Notes: The certificate imported to this keystore is being used to connect and getting authenticated to Grants.Gov server. The certificate should be CSA certified and should be registered with Grants.Gov before using it.

s2s.keystore.password

Purpose: Password for the keystore

Default Value: keystore password

Notes:

s2s.truststore.location

Purpose: Absolute path to the truststore file, where all public server certificates which application has access to.

Default Value: path to truststore



Notes: To access grants.gov server, the truststore file should have grants.gov web service server's public certificate imported in it.

s2s.truststore.password

Purpose: Password for the truststore file.

Default Value: truststore password

Notes:

grants.gov.s2s.host

Purpose: Host url to access s2s web service

Default Value: grants.gov host

Notes: To access test server use `https://atws.grants.gov:446/app-s2s-server/services`

To access production server use `https://ws.grants.gov:446/app-s2s-server/services`

Default value is set to point to Grants.Gov TEST server

grants.gov.s2s.port

Purpose: S2S web service port, where all major services are declared.

Default Value: grants.gov port

Notes: Since this is a variable defined in Grants.Gov reference implementation, we also keep it as a variable.

Usually, we do not change this property