FUEGO 5.5 TASKS FOR APACHE-Ant

Fernando Dobladez
ferd@fuego.com

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Abstract

This document describes the integration between Fuego and Apache’s Ant build tool.

Fuego provides an Ant library to automate some administrative tasks using Ant scripts. This includes the deployment of processes, managing Engine configurations, importing/exporting organizational data.

It is assumed that the reader is familiar with XML and the Fuego system. Basic knowledge of how Ant works is also required.

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1 Introduction

Apache Ant\(^1\) is a platform-independent (Java-based) build tool. It is useful for automating repetitive tasks and thus is well suited for implementing standardized build and deployment processes.

Ant scripts are called build files and are written in XML. Each build file defines one project with at least one target. A target contains a set of tasks, which are the actions that will be executed for that target.

The power of Ant lies on the fact that its XML syntax is designed to be extended. Ant provides a good set of standard tasks to achieve many common actions (like copying files and compiling source code), but new ones can be added.

Fuego provides a set of tasks that add Fuego-specific functionality to Ant scripts, including:

- Publishing and Deploying processes (see Task fuego:publish on page 24)
- Starting, Stopping and general management of Fuego Engines (see Task fuego:engine on page on page 16)
- Importing and exporting of configuration resources (see Task fuego:resources on page 28)
- Importing and exporting of Organizational data –participants, roles, org. units– (see Task fuego:directoryadmin on page 12)
- Creation and general management of Fuego Directories (see Task fuego:directoryschema on page 15)

This document is not a tutorial on Ant itself, but on the additional tasks provided by Fuego.

For more documentation, tutorials and general reference about Ant, please refer to its official website. It provides a manual and pointers to several online articles and published books about Ant.

2 Requirements

The Fuego Ant tasks require Ant 1.6.1 or newer, and they rely on the namespace and antlib features included in Ant version 1.6.

\(^1\)http://ant.apache.org
2 REQUIREMENTS

2.1 Fuego Ant libraries

For Ant to find the Fuego Ant Libraries, the full path to the Fuego lib/ and ext/ directories must be passed to Ant using the -lib option. Example:

On Unix:
ante -lib /fuego5.5/enterprise/lib:/fuego5.5/enterprise/ext

On Windows:
ante -lib c:\fuego5.5\enterprise\lib; c:\fuego5.5\enterprise\ext

To avoid using the -lib argument every time, it can be specified once using the ANT_ARGS environment variable:

On Unix:
ANT_ARGS="-lib /fuego5.5/enterprise/lib:/fuego5.5/enterprise/ext"
export ANT_ARGS

On Windows:
set ANT_ARGS=-lib c:\fuego5.5\enterprise\lib; c:\fuego5.5\enterprise\ext

2.2 Fuego Namespace declaration

Ant scripts need to include the Fuego antlibs in its project definition in order to use Fuego tasks:

```
<project name="FuegoExample"
    xmlns:fuego="antlib:fuego.tools.ant.enterprise"
    xmlns:fuego.j2ee="antlib:fuego.tools.ant.j2ee"
    ...>
</project>
```

The previous example defines the fuego namespace for accessing the standard Fuego library of tasks and fuego.j2ee for those tasks specific to the J2EE edition of Fuego.

Every reference to a standard Fuego task will be prefixed by “fuego:”, and the J2EE-specific ones will be referenced with the “fuego.j2ee:” prefix. Like in the following snippet that uses the publish and buildear tasks:

```
<project name="FuegoExample" xmlns:fuego="antlib:fuego.tools.ant.enterprise">
    ... 
    <target name="publish">
        ... 
        <!-- Publish a process -->
        <fuego:publish fpr="myproject.fpr">
            ... 
        </fuego:publish>
        <fuego.j2ee:buildear ...
```
2.3 Setting `fuego.basedir`

Finally, the last requirement for Fuego Ant tasks to work correctly is to define the `fuego.basedir` property inside the build script. This property must point to the Fuego Enterprise installation directory:

```xml
<project name="FuegoExample" xmlns:fuego="antlib:fuego.tools.ant.enterprise">
  
  <property name="fuego.basedir" value="/fuego5.5/enterprise"/>
  ...

</project>
```

3 Using Fuego tasks

The following example represents a small but complete Ant script that uses Fuego tasks.

The example script publishes and deploys a Fuego process making use of:

- Task `fuego:publish` (see page 24)
- Task `fuego:session` (see page 29)
- Type `fuego:passport` (see page 24)

`Fuego:publish` is the task that allows for publishing and deploying processes. As any other task that needs access to a Fuego directory, it must be enclosed by a `fuego:session` task.

A `fuego:passport` basically defines the authentication information needed to access a particular Fuego directory. The `fuego:session` task accepts a passport reference to establish a session to the directory.

```xml
<!— This script publishes and deploys a Fuego Process. —>
<project name="FuegoExample" xmlns:fuego="antlib:fuego.tools.ant.enterprise">
  
  <!-- Include properties -->
  <property file="build.properties"/>

</project>
```
The example includes properties from another file: `build.properties`. Keeping the values that are likely to change in a separate properties file is a good practice to follow, since it allows for easy parameterization of the script.

This is a `build.properties` file suitable for the above example:

```properties
# Fuego Enterprise installation directory
fuego.basedir=/fuego5.5/enterprise

# Name of Fuego Engine to deploy process
fuego.engine=Standalone

# Project to deploy
fuego.project=/fuego5.5/studio/samples/HelloWorld.fpr
```

The following sections describe each of the available Fuego tasks in more detail, including all the attributes they accept and examples of use.
4 fuego Library

4.1 Task fuego:database

This task allows the management of a database schema.

Using an schema definition in xml format, this task can create, drop or clean a database schema.

This task connects to the database using configuration of type SQL that must previously exist.

Example:

```xml
<fuego:database action="create"
    connectorName="oracleConnector"
    file="/tmp/configurations.xml"
    userProperty="user"
    passwordProperty="password"/>
```

Parameters:

- **haltonerror**– boolean *Not required*. Defaults to true. Stop the Ant build process if an error occurs.

- **userproperty**– String *Required*. Sets the configuration’s property key for the user name.

- **file** – File *Required*. Sets the location of an xml file containing the configuration’s definitions.

- **passwordproperty**– String *Required*. Sets the configuration’s property key for the password.

- **verbose**– boolean

- **action** – String ["create", "drop", "clean"]*Required*. Defines the operation to execute:
  - **create**: create a new database schema.
  - **drop**: drop an existing database schema.
  - **clean**: create a new database schema if it does not exist, or remove all the existing rows in all tables otherwise.

- **schemafile**– File *Required*. Sets the file location of the xml schema definition.

- **user** – String *Not required*. Defaults to null Sets the user to connect to the database.
- **connectorname** – String *Required*. Defines the name of the SQL database configuration.
- **fuegobasedir** – File
- **loaderref** – Reference
- **password** – String *Not required*. Defaults to null. Sets the user’s password to connect to the database.

## 4.2 Task fuego:delegate-admin

Delegate administration of single or multiple OUs to a specific participant or multiple participants.

**Example:**

**Delegating ou1 administration to user1**

```xml
<fuego:delegate-admin participant="user1" ou="ou1"/>
```

**Delegating ou1 and ou2 administration to user1**

```xml
<fuego:delegate-admin participant="user1">
  <fuego:ou id="ou1"/>
  <fuego:ou id="ou2"/>
</fuego:delegate-admin>
```

**Delegating ou1 administration to user1 and user2**

```xml
<fuego:delegate-admin ou="ou1">
  <fuego:participant id="user1"/>
  <fuego:participant id="user2"/>
</fuego:delegate-admin>
```

**Delegating ou1 and ou2 administration to user1 and user2**

```xml
<fuego:delegate-admin/>
  <fuego:ou id="ou1"/>
  <fuego:ou id="ou2"/>
  <fuego:participant id="user1"/>
  <fuego:participant id="user2"/>
</fuego:delegate-admin>
```

**Ou identifier for OUs in hierarchy has to include full hierarchy path separated by ‘/’**

```xml
<fuego:delegate-admin participant="user1">
  <fuego:ou id="ou1/ou11"/>
  <fuego:ou id="ou1/ou12"/>
</fuego:delegate-admin>
```
Parameters:

- **participant** – String *Not required*. Used when delegating administration to a single participant.

- **ou** – String *Not required*. Used when delegating administration of a single ou.

- **delegate** – boolean *Not required*. Defaults to true, delegate administration. Flag to be used to delegate or undelegate administration.

Parameters accepted as nested elements:

```xml
<participant>  (Of type ParticipantIdentifiedElement)
```

Parameters:

- **id** – String

```xml
<ou>  (Of type OuIdentifiedElement)
```

Parameters:

- **id** – String

## 4.3 Task **fuego:directory**

This task allows for exporting and importing the organizational information (roles, participants, OUs, etc).

Particular types of objects and their properties categories can be selected using the **include** nested elements. For each element type the categories selected to export can be selected using the **property** nested elements.

When the objects are imported to the directory, all categories contained in the file will be also imported and cannot be excluded.

When importing participants, a password file can be generated if desired. By default no password file is generated.

Export example:

```xml
<!-- Open a session to the Fuego directory -->
<fuego:session passportref="fuego.passport">

<!-- Export participants and roles -->
<fuego:directory file="${basedir}/export.xml"
```
Import example:

```
<!-- Open a session to the Fuego directory -->
<fuego:session passportref="fuego.passport">

    <!-- Import participants (generating password file) and roles -->
    <fuego:directory file="$\{basedir\}/export.xml"
        action="import"
        generatePassFile="true">
    
    <!-- include participants -->
    <include type="participants"/>

    <!-- include roles -->
    <include type="roles"/>
    
    </fuego:directory>

</fuego:session>
```

Parameters:

- **file** – File **Required**.
  File used to export data if an export action is selected, or file containing the organization data to import if an import action is selected.

- **generatepassfile** – boolean **Not required**. Defaults to false **Whether** to generate a password file after importing participants.

- **action** – String [“export”, “import”]**Required**. Whether to execute an export or an import.
  Possible values are [export,import]

- **charset** – String **Not required**. Defaults to default VM charset The charset name to use when the export file is written.
- **haltonerror** – boolean *Not required.* Defaults to false Whether to stop the ant build process if an error occurs during the execution of this task.

Parameters accepted as nested elements:

```xml
<include>— (See Type fuego:directory.IncludeType on the current page)
```

Parameters:


```xml
<category>
```

Parameters:

- **name** – String *Required.

---

### 4.4 Type fuego:directory.IncludeType

Parameters:

- **type** – String ["views", "referrals", "groups", "ous", "holidayrules", "presentations", "roles", "businessparameters", "variables", "calendarrules", "participants"] *Required.* Type of object to include in the export/import.

Parameters accepted as nested elements:

```xml
<category>
```

Parameters:

- **name** – String *Required.

---

### 4.5 Task fuego:directoryadmin

Manage the organization information (roles, participants, ous, etc).

Example:
<fuego:directoryadmin importFile="/tmp/fdiexport.xml">
    <deleteou name="ou1"/>
    <deleteou name="ou2"/>
    <createou name="ou3" description="ou1 description"/>
    <createou name="ou4"/>
    <deleterole name="role1"/>
    <deleterole name="role2"/>
    <deleterole name="roleParam1"/>
    <createrole name="role3" description="role1 description"/>
    <createrole name="role4" parametric="false"/>
    <createrole name="roleParam2" description="parametric role1 description" parametric="true">
        <param value="param1"/>
        <param value="param2"/>
    </createrole>
</fuego:directoryadmin>

Parameters:

- **importfile** – File *Required*. File used to import the organization data.
- **action** – String ["clean-variables"]
- **haltonerror** – boolean *Not required*. Defaults to true. Stop the Ant build process if an error occurs.

Parameters accepted as nested elements:

- **<deleterole>** – (See Type fuego:directoryadmin.Role on the following page) A role definition. Parameters:
  - **name** – String *Not required.*
  - **refid** – Reference
  - **parametric** – boolean *Not required*. Defaults to false.

- **<imports>** (Of type FileSet) Parameters:
  - **refid** – Reference
• file– File
• dir– File
• defaultexcludes– boolean
• followsymlinks– boolean
• casesensitive– boolean
• excludes– String
• includesfile– File
• excludesfile– File
• includes– String

<deleteou>
Parameters:
• name– String Required.
• refid– Reference

<createrole>– (See Type fuego:directoryadmin.Role on the current page) A role definition.
Parameters:
• name– String Not required.
• refid– Reference
• parametric– boolean Not required. Defaults to false.

<createou>
Parameters:
• name– String Required.
• refid– Reference

4.6 Type fuego:directoryadmin.Role

A role definition.

Parameters:
• name– String Not required. Sets the name of the Organizational Role.
• refid– Reference
• parametric– boolean Not required. Defaults to false. Whether the role is parametric or not.
Parameters accepted as nested elements:

```xml
<param>
Parameters:
  • refid – Reference
  • value – String Required.
</param>
```

4.7 Task fuego:directoryschema

Manages the fuego directory schema.

Using a set of properties containing an schema definition, this task can create, drop, repair, recreate and clean a database schema.

Example:

```xml
<fuego:directoryschema action="create"
  file="/tmp/oracle.schema"
  runtimeProperties="/tmp/conf/directory.properties"/>
```

Parameters:

- **haltonerror** – boolean *Not required.* Defaults to true. Stop the Ant build process if an error occurs.
- **file** – File *Required.* File name containing the schema properties.
  The properties contains the information to create, drop, clean and repair a Directory schema.
- **verbose** – boolean
- **action** – String ["create", "drop", "repair", "recreate", "clean", "initialize"] *Required.* Defines the operation to execute:
  - **create**: create a new Fuego Directory schema.
  - **initialize**: initialize an existing schema.
  - **drop**: drop an existing schema.
  - **recreate**: drop an existing schema and create it.
  - **repair**: repair an existing schema.
  - **clean**: create a new Fuego Directory schema if it does not exist, or remove all the existing objects otherwise.
• `sqlstatementsoutputfile` – File. *Not required.* Only needed if `showSqlStatements` is `true`.

• `fuegobasedir` – File

• `loaderref` – Reference

• `showsqllstatements` – boolean. *Not required.* Defaults to `false`. This attribute is used as a modifier of create action when you wish to generate the DDL scripts for database structure instead of actually creating it.

• `runtimeproperties` – File. *Not required.* Defaults to `null`. Location of the file where the runtime properties are stored. This file is used to extract the runtime properties to establish a session to the Directory.

### 4.8 Task `fuego:engine`

This is task provides the ability to configure and manage Fuego Engines. It can start/stop/create/drop and do general management of Engines.

Example:

```xml
<target name="start-engine" description="Start a Fuego Engine">
  <!-- Open a session to the Fuego directory -->
  <fuego:session
    passportref="fuego.passport"
    verbose="false"
    haltonerror="true" />

  <!-- Make sure the keystore is created (this is actually required only once per installation) -->
  <fuego:engine action="enable-location"
    engineid="${fuego.engine}"
    participant="${fuegoparticipant}"
    password="${fuego.password}"/>

  <!-- Start the Engine -->
  <fuego:engine action="start" engineid="${fuego.engine}"/>
</fuego:session>
</target>
```
Parameters:

- **newstopicconnectionfactory** – String Not required. Only used if engine type is J2EE

- **connector** – String Required. when creating a new Engine (that is, action="create") Name of the database resource configuration. This is the configuration to use for the Engine's back-end database.

- **newstopicname** – String Not required. Only used if engine type is J2EE

- **itemsqueueunname** – String Not required. Only used if engine type is J2EE

- **haltonerror** – boolean Not required. Default is true Whether to stop the ant build process if an error occurs during the execution of this task.

- **sqlstatementsoutputfile** – File Not required. Only needed if showSqlStatements is true.

- **type** – String Not required. If not set, the default value is the type installed, or if there are more than one engine type installed, will fail. Specifies the type of engine to create. Is only required when action is "create".

- **propsfile** – File Not required. Only needed if importProps is true.

- **homedir** – File Required. when creating a new Engine configuration. Home directory for the new Engine.

- **showsqlstatements** – boolean Not required. Defaults to false. This attribute is used as a modifier of create-database action when you wish to generate the DDL scripts for database structure instead of actually creating it.

- **runtimeconnector** – String Not required. If omitted, the value of connector is used.

- **enginefile** – File Required. when importing/exporting an Engine configuration. Engine configuration file.

- **engineid** – String Required. ID of the Fuego Engine to work on.

- **vargument** – String Not required. If not set, the value specified via Web console will be used. Optional additional arguments to pass to the Java Virtual Machine. When specified, this arguments will override those on the Engine configuration (webconsole).

- **importprops** – boolean

- **logdir** – File Not required. Defaults to ${homedir}/log Log directory for the new Engine.
  - create: Create a new Engine configuration.
  - delete: Delete an existing Engine configuration.
  - create-database: Create an Engine’s back-end database structure.
  - recreate-database: Drop and Create an Engine’s back-end database structure.
  - drop-database: Drop an Engine’s back-end database structure.
  - import:
    - start: Start an Engine.
    - stop: Stop a running Engine.
  - status: Get status information about an Engine.
  - enable-location: Create a local "keystore" file that is required for other engine actions. This is needed only once per-Fuego installation.
  - clean-database: Clean the back-end database contents.

• itemsqueueconnectionfactory – String Not required. Only used if engine type is J2EE

• directoryconnector – String Not required. Only used if engine type is J2EE

• arguments – String Not required. If not set, the value specified via Web console will be used. Optional additional arguments to the Fuego Engine. When specified, this arguments will override those on the Engine configuration (webconsole).

Parameters accepted as nested elements:

<engprops> – (See Type fuego:engine.EngineProperties on the following page)
Parameters:

<admin> Represents the credentials for an "Administrator" user.
If it’s used to represent a Fuego Directory administrator, then participant should be used for the participant id. For connections to other systems (like DBMSs) the user attribute will be used.
This element is required when action equals enable-location, create-database, clean-database or drop-database.
Parameters:

  • participant – String Required. When used to connect to a Fuego Directory
  • user – String Required. When used for connections not to the Fuego Directory
  • password – String Required.
4.9 Type fuego:engine.EngineProperties

Parameters:

Parameters accepted as nested elements:

<property>

This is the list of possible properties, grouped as shown in Web Console: the name, the description, the type, the default value, and restrictions:

- Log:
  - log.engineLogSeverity - Messages logged from Engine - String - Default: Warning - Values: Fatal, Severe, Warning, Info, Debug
  - log.mailLogSeverity - Messages sent by mail - String - Default: None - Values: None, Warning, Severe
  - log.detailLevel - Log detail level - int - Default: 1 - Values between 1 and 10
  - log.maxLogSize - Maximum size of log file - int = Default: 2000 Kb - Values between 1000 and 1000000000
  - log.maxLogFile - Maximum number of log files - int - Default: 5 - Values between 1 and 100

- Startup:
  - startup.autoStartable - Start automatically during Web Console initialization - boolean - Default: false
  - startup.arguments - Additional arguments used in startup - String
  - startup.javaArguments - Additional java arguments used in startup - String

- Memory:
  - memory.maxJvmHeapSize - Maximum JVM heap size - int - Default: 256 Mb - Values between 256 and 4096
  - memory.maxInstanceSize - Maximum instance size - int - Default: 16 Kb - Values between
  - memory.instancesCacheSize - Instances cache - int - Default: 5000

- Execution Threads:
  - execution.interactiveExecutionThreadsPoolSize - Maximum number of execution threads used for interactive executions - int - Default: 50 - Values between 10 and 200
  - execution.automaticExecutionThreadsPoolSize - Maximum number of execution threads used for automatic tasks - int - Default: 5 - Values between 1 and 200
  - execution.automaticExecutionThreadsPriority - Priority of Automatic Execution Threads - int - Default: 5 - Values between 1 and 10
  - execution.automaticItemsQueueSize - Automatic items queue size - int - Default: 1000 - Values between 100 and 10000
- execution.retryTimes - Retry times - int - Default: 5 - Values between 0 and 100
- execution.retryInterval - Retry interval - int - Default: 1800 - Values between 15 and 100000

- **Timeouts:**
  - timeouts.maxMethodTimeout - Maximum BP-Methods timeout - int - Default: 30 seconds
  - timeouts.itemExecutionTimeout - Interactive component timeout - int - Default: 720 minutes

- **Debugger:**
  - execution.traceComponents - Trace components - boolean - Default: false

- **Disposer:**
  - disposer.disposerLatency - Disposer latency - int - Default: 2 - Values between 0 and 100
  - disposer.instanceCaducity - Instance caducity - int - Default: 15 - Values between 1 and 100
  - disposer.disposeParticipants - Dispose Participants - boolean - Default: true
  - disposer.participantCaducity - Participant caducity - int - Default: 30 days - Values between 15 and 1000
  - disposer.disposerStartingTime - Disposer starting time - Time
  - disposer.archivingEnabled - Enable Archiving - boolean - Default: false
  - disposer.archivingConfiguration - Archiving Configuration - String

- **IPC:**
  - ipc.serviceEnabled - Enable IPC service - boolean - Default: false
  - ipc.servicePort - IPC service Port - int - Default: 54350
  - ipc.maxIncomingConnections - Maximum incoming connections - int - Default 5

- **Socket Factory:**
  - execution.enableSocketFactory - Enable socket factory - boolean - Default: false

- **SNMP:**
  - snmp.serviceEnabled - Enable SNMP service - boolean - Default: false
  - snmp.agentPort - SNMP agent port - int - Default: 161
  - snmp.managerPort - SNMP manager host - String - Default: $LOCALHOST$
  - snmp.managerHost - SNMP manager port - int - Default: 162

- **Networking:**
  - networking.mailServerName - Mail server name - String - Default: smtp
  - networking.administratorMail - Administrator mail - String - Default: ftadmin
  - networking.webServicesUrl - Web Services URL - String - Default: http://$LOCALHOST$:8585/fws/servlet/Deploy

- **DB:**
4.10 Task fuego:instancesmanager

This task allows for exporting and importing process instances of a given Fuego Server. All instances of all Active processes are exported. Deprecated instances are neither exported nor imported.

This task needs access to a Fuego Directory, so it must be contained in a fuego:session element.

Because process metadata is retrieved from the Directory, the processes must be deployed for this task to work.

When importing, a properties file may be specified for mapping instance variable names. This allows for instance variables to be imported with a name different from the original.

Example 1 (export instances in one file per Server table in the database):

```xml
...  
<!-- Open a session to the Fuego directory -->
<fuego:session passportref="fuego.passport">

  <fuego:instancesmanager directoryPath="/tmp/export/"
```
Example 2 (import instances exported in example 1):

```xml
... ...
<fuego:session passportref="fuego.passport">
  <fuego:instancesmanager directoryPath="/tmp/export/"
    action="import"
    engineid="${import.engineid}"/>
</fuego:session>
... ...
```

Parameters:

- **engineid**– String *Not required*. Name (id) of the Fuego Server.
  
  *Deprecated: use serverid*

- **serverid**– String *Required*. Name (id) of the Fuego Server.

- **fieldsmappingfile**– File *Not required*. Defaults to no mapping file.
  
  File location to a properties file containing a mapping between old instance variable names and new ones.

- **directorypath**– File *Required*.
  
  Directory name where the output files will be generated (export) or the import files will be read from (import).

- **action**– String ["import", "export"] *Required*. Whether to execute an export or an import.

- **counterstep**– int *Not required*. Defaults to 100. Number of steps in which the progress is shown.

### 4.11 Task fuego:parttrust

This task allows the management of participant trusts for a Directory.

Trusts can be added or removed for a participant, or for all participants in a directory. The `skip-auth` property can also be set.

Example 1 (adds a trust to a participant with `skip-auth`):
Example 2 (adds a trust to a participant without `skip-auth`):

```xml
<fuego:parttrust action="add"
    participant="paul"
    skipAuth="false"
    trust="dbFDIUser"/>
```

Example 3 (adds a trust to all participants with `skip-auth`):

```xml
<fuego:parttrust action="add"
    skipAuth="true"
    trust="dbFDIUser"/>
```

Example 4 (adds a trust to a participant without `skip-auth` for all database users):

```xml
<fuego:parttrust action="add"
    participant="paul"
    skipAuth="false"/>
```

Example 5 (removes a trust to a participant):

```xml
<fuego:parttrust action="add"
    participant="paul"
    trust="dbFDIUser"/>
```

Parameters:

- **participant**– String *Not required*. Defaults to a global trust (all participants). Sets the id of the participant that will be added the trust.

- **action**– String ["add", "delete"] *Required*. Defines the operation to execute:
  - `add`: adds a participant trust.
  - `delete`: deletes a participant trust.

- **skipauth**– boolean *Not required*. Defaults to false
  Wheather the directory session skips the autentication for the participant if set, or skips authentication for all participants, otherwise.

- **trust**– String *Not required*. Defaults to null.
  Sets the directory provider’s user name that will impersonate a Fuego participant when she connects to the Directory.
  If a null value is set, a Fuego participant can connect to the Directory using any directory provider’s user name
4.12  Type fuego:passport

Definition of a directory passport used to connect to a directory service. It includes information about a Fuego Directory plus credentials to establish a connection to it. Example:

```xml
<!-- Define a fuego "passport" -->
<fuego:passport id="fuego.passport"
    directoryid="${fuego.directoryid}"
    participant="${fuego.participant}"
    password="${fuego.password}" />
```

Parameters:

- **directoryid** – String *Required*. either directoryid or directoryurl must be defined. The ID of the Directory as defined in the directory.properties file.
- **participant** – String *Required*. Unless preset is defined ID of the participant that will connect to the directory.
- **password** – String The password of the participant.
- **directoryurl** – String *Required*. either directoryid or directoryurl must be defined. The URL of the Fuego Directory.
- **properties** – File Use a different directory.properties file instead of the default one located in the conf/directory.
- **refid** – Reference
- **preset** – String *Required*. Unless participant is defined. A preset in the directory.properties file that contains connection properties.

4.13  Task fuego:publish

This task allows to automatically publish and (optionally) deploy a complete Fuego project.

Particular processes within a project can be included or excluded from the publication by using the include and exclude nested elements.

It can handle the mapping of role/variables/resources, by either:

- Explicitly defining them.
- Loading the projects’ publication.xml definition file.
Example:

```xml
... 
<!-- Open a session to the Fuego directory -->
<fuego:session passportref="fuego.passport">
  
  <!-- Publish processes -->
  <fuego:publish fpr="${fuego.project}" 
    deploy="true" 
    engine="${fuego.engine}">

  <!-- Role mappings -->
  <fuego:rolemap abstract="Approver" real="CFO"/>
  <fuego:rolemap abstract="Requester" real="Consultant"/>

  <!-- Deploy info -->
  <fuego:deployinfo engine="${fuego.engine2}" ou="${fuego.ou2}" 
    processname="${fuego.processName}" variation="${fuego.processVariation}"/>

  </fuego:publish>
</fuego:session>
... 
```

Parameters:

- **viewsgenerationtype**— String ["unified_inbox", "by_process", "by_process-and_activity"] Not required. Defaults to "unified_inbox" type Choose which type of views will be generated for the deployed processes.

- **fpr**— File Required. Unless <projects> nested element is used. Fuego Project file to use for publishing/deploying.

- **haltonerror**— boolean Not required. Defaults to false Whether to stop the ant build process if an error occurs during the execution of this task.

- **deploy**— boolean Not required. Defaults to false Whether to deploy the process after publishing

- **importcustomviews**— boolean Not required. Defaults to false Import custom portal Views and Presentations from the project (defined with Studio’s PortalAdmin), taking into account the roles and variables mappings.

- **remarks**— String Not required. Optional commentary to add to the processes publication.

- **ou**— String Not required. Organizational Unit where processes will be deployed. Only meaningful when deploy is true.
• **keepgeneratedfiles**—boolean *Not required*. Defaults to the user’s studio preference. Do not remove the .java and .class files generated during publication. It overrides the studio preference.

• **automaproles**—boolean *Not required*. Defaults to false Automatically map abstract roles to real ones with the same name. Useful when using the **importdata** option.

• **automapbuspars**—boolean *Not required*. Defaults to false Automatically map business parameter variable names (as defined in the project design) to an business parameter variable id with the same name (as defined in the Fuego Enterprise directory). Useful when using the **importdata** option.

• **mode**—String ["new-major", "new", "keep"]

• **importdata**—boolean *Not required*. Defaults to false Whether to import data from the project, as defined in Fuego Studio. This includes importing:
  - Holiday and Calendar rules
  - Organizational Units
  - Roles
  - Resource configurations
  - External Variables

• **automapconfigs**—boolean *Not required*. Defaults to false Automatically map External Resources configurations (as defined in the project design) to real Configurations with the same name (as defined in the Fuego Enterprise directory). Useful when using the **importdata** option.

• **automapvars**—boolean *Not required*. Defaults to false Automatically map external variable names (as defined in the project design) to an external variable id with the same name (as defined in the Fuego Enterprise directory). Useful when using the **importdata** option.

• **loadpublicationinfo**—boolean *Not required*. Defaults to false Use the publication information defined in the **projectname.fpr/publication.xml** file. Including:
  - Role mappings
  - Resource configuration mappings
  - External Variable mappings

• **engine**—String *Required*. when **deploy** is true Name of the Engine for deployment
Parameters accepted as nested elements:

<varmap> Represents a mapping of an abstract External (or Business) Variable name (as defined in the project design) to a real External Variable (as defined in the Fuego Enterprise directory)

Parameters:

- **externalid** – String *Required.*
- **name** – String

<include> Declares a particular process to be included in the publication/deployment. If no `<include>` element is used, all the process in the project will be included.

Parameters:

- **name** – String *Required.*
- **variation** – String *Not required.* If not specified "Default" is assumed.

<busparmmap> Represents a mapping of an abstract Business Parameter (as defined in the project design) to real Business Parameter (as defined in the Directory).

Parameters:

- **abstract** – String *Required.*
- **real** – String *Not required.* If omitted, the same id specified in abstract role will be used (Useful when using the importdata option). See automaprole.

<exclude> Declares a particular process to be excluded from the publication/deployment.

Parameters:

- **name** – String *Required.*
- **variation** – String *Not required.* If not specified "Default" is assumed.

<projects> (Of type FileSet)

Parameters:

- **refid** – Reference
- **file** – File
- **dir** – File
- **defaultexcludes** – boolean
- **followsymlinks** – boolean
- **casesensitive**– boolean
- **excludes**– String
- **includesfile**– File
- **excludesfile**– File
- **includes**– String

**<rolemap>** Represents a mapping of an abstract Role (as defined in the project design) to real Role (as defined in the Directory)

Parameters:

- **abstract**– String *Required.*
- **real**– String *Not required.* If omitted, the same id specified in abstract role will be used (Useful when using the importdata option). See automaprole.

**<confmap>** Represents a mapping of an abstract Resource Configuration name (as defined in the project design) to a real Real Configuration (as defined in the Directory)

Parameters:

- **local**– String
- **real**– String

**<deployinfo>**

Parameters:

- **variation**– String
- **engine**– String
- **ou**– String
- **processname**– String

### 4.14 Task fuego:resources

Handles export/import of configuration resources.

Examples:

```xml
<target name="export-resources" description="Export Configuration Resources ">

<!-- Open a session to the Fuego directory -->
```
```
4.15 Task fuego:session

Establishes a session with a Fuego Directory. The Tasks contained as nested elements are executed using this session.

**Parameters:**

- **file** – File *Required*. The file to export/import
- **force** – boolean *Not required*. by default, it will refuse to import a configuration if it already exists in the directory. Whether the import action will overwrite existing configurations.
- **action** – String ["import", "export", "clean-all"] *Required*. Defines the operation to execute on the configuration.
  - **import**: create the objects in the file in the directory
  - **export**: save the objects in the directory in the file
- **haltonerror** – boolean *Not required*. Default is true. Stop the Ant build process if an error occurs.
An external Fuego Passport can be referenced for convenience.

All the Fuego Ant tasks that use a directory session must be a children of this task.

Example:

```xml
<!-- Define a fuego "passport" -->
<fuego:passport id="fuego.passport"
    directoryid="${fuego.directoryid}"
    participant="${fuego.participant}"
    password="${fuego.password}" />

<target name="publish">

    <!-- Open a session to the Fuego directory -->
    <fuego:session
        passportref="fuego.passport"
        verbose="true"
        properties="${fuego.basedir}/conf/directory.properties"
        haltonerror="true">
        ... include other Fuego tasks here...
    </fuego:session>

</target>
```

Parameters:

- **haltonerror**– boolean *Not required*. Default is false Stop the build process if an error occurs.

- **directorypreset**– String

- **verbose**– boolean

- **passportref**– Reference *Required*. Unless directoryid or directoryurl are specified. Use a passport defined previously instead of defining all the properties in the session task

- **directoryid**– String *Required*. Unless passportref or directoryurl are specified. The id of the Fuego Directory to used, as defined in the directory.properties file.

- **properties**– File *Not required.*
  Defaults to `${fuego.basedir}/conf/directory.properties`
  Use a different directory.properties file instead of the default one locate in the conf dir
• fuegobasedir – File
• loaderref – Reference
• participant – String Required. Unless passportref is specified. ID of the participant to use
• password – String Required. Unless passportref is specified. Password for the participant
• directoryfile – File
• preset – String Not required. Specifies a preset to use in the Directory Passport.

Parameters accepted as nested elements:

This Task is a Container (it accepts nested Tasks).

4.16 Task fuego:undelegate-admin

Undelegate administration of single or multiple ou's from a specific participant or multiple participants.
Same as delegate-admin task when using delegate=false flag.

Parameters:

• participant – String Not required. Used when delegating administration to a single participant.
• ou – String Not required. Used when delegating administration of a single ou.
• delegate – boolean Not required. Defaults to true, delegate administration. Flag to be used to delegate or undelegate administration.

Parameters accepted as nested elements:

<participant> (Of type ParticipantIdentifiedElement)
${elementDoc.getComment()}
Parameters:

• id – String
4.17 Task fuego:undeploy

This task allows to automatically undeploy a complete Fuego project.

Example:

```xml
...<!
-- Open a session to the Fuego directory -->
<fuego:session passportref="fuego.passport">
    <fuego:undeploy projectName="variationsTest"/>
</fuego:session>
```

Parameters:

- **projectname** – String *Required*. Project to be undeployed
- **haltonerror** – boolean *Not required*. Defaults to false Whether to stop the ant build process if an error occurs during the execution of this task.

4.18 Task fuego:unpublish

This task allows to automatically unpublish a complete Fuego project.

Example:

```xml
...<!
-- Open a session to the Fuego directory -->
<fuego:session passportref="fuego.passport">
    <fuego:unpublish projectName="variationsTest" major="2"/>
</fuego:session>
```
Parameters:

- **major**– int *Required*. Only when the minor version or the revision are set. Major version of the project to be unpublished. If no major version is specified, the whole project is unpublished.

- **revision**– int *Not required*. Defaults to being ignored. Revision of the project to be unpublished. If no revision is specified, every revision for the selected version will be unpublished.

- **projectname**– String *Required*. Project to be unpublished

- **minor**– int *Required*. Only when the revision is set. Minor version of the project to be unpublished. If no minor version is specified, every minor version for the selected major will be unpublished.

- **haltonerror**– boolean *Not required*. Defaults to false Whether to stop the ant build process if an error occurs during the execution of this task.

4.19 Task fuego:warehouse

This is tasks provides the ability to configure and manage the Datawarehouse. It can create/drop the database and run the *updater*.

Examples:

1. Configure Data Store properties.

```xml
<fuego:warehouse action="configure"
    logDefaultSeverities="Fatal"
    configuration="configuration"
    bamConfiguration="bamConfiguration"
    bamRuntimeConfiguration="bamRuntimeConfiguration"
    logDir="/tmp"
    snapshotTime="12:00"
    updateFrequency="daily"
    updateTime="13:45"
    o3ServerHost="v8"
    o3ServerPort="1234"
    caducityTime="36"
    updateFrequencyMinutes="25"
    cubesUpdateTime="00:00"
    enableO3Service="true"
    disableDatawarehouse="false"
    disableUpdate="false"
    disableBAMUpdate="false"
    runWorkload="false"
    runPerformance="false"
    generateO3Cubes="true"
    language="es">33```
2. Create BAM and OLAP databases.

```xml
<fuego:warehouse action="create-database" bam="false">
  <fuego:admin user="${dba_user}" password="${dba_password}"/>
</fuego:warehouse>

<fuego:warehouse action="create-database" bam="true">
  <fuego:admin user="${dba_user}" password="${dba_password}"/>
</fuego:warehouse>
```

3. Create BAM and OLAP DDL’s.

```xml
<fuego:warehouse action="create-database" bam="false" showSqlStatements="true" sqlStatementsOutputFile="create-olap.sql"/>

<fuego:warehouse action="create-database" bam="true" showSqlStatements="true" sqlStatementsOutputFile="create-bam.sql"/>
```

Parameters:

- **o3serverhost** – String *Not required*. Defaults to localhost. Sets the host where the O3 Server is running.

- **enableo3service** – boolean *Not required*. Defaults to false. Sets whether the O3 Service is executed or not. The O3 Service connects to a O3 Server and starts the cube building process.

- **haltonerror** – boolean *Not required*. Defaults to true. Stop the Ant build process if an error occurs.

- **bamruntimeconfiguration** – String *Not required*. If omitted, the value of `bamConfiguration` is used. Sets the name of the BAM database resource configuration that will be used in runtime.

- **sqlstatementsoutputfile** – File *Not required*. Only needed if `showSqlStatements` is true.

- **updatetime** – String *Required*. If the action is set to `configure`. Sets time at which the updater process will run. The string must have the following format (using lex-like syntax): h{1,2}:m{1,2}:(s{1,2}(.ms{1,2})?)?

- **caducitytime** – int *Not required*. Defaults to 24 hours. Sets the Instance Caducity time for BAM database rows.

- **showsqlstatements** – boolean *Not required*. Defaults to false. This attribute is used as a modifier of create-database action when you wish to generate the DDL scripts for database structure instead of actually creating it.
- **logdefaultseverities**: String ["Fatal", "Severe", "Warning", "Info", "Debug"] Sets the severity level that are logged in the updater log file.

- **updatefrequencyminutes**: int *Not required*. Defaults to 60 minutes. Sets the update frequency time for the BAM updater process.

- **configuration**: String *Required*. Sets the name of the Data Store database resource configuration. This is the configuration to use for the Data Store back-end database.

- **disabledatawarehouse**: boolean *Not required*. Defaults to true. Sets whether the Data Store service is enabled or not.

- **cubesupdatetime**: String

- **updatefrequency**: String ["daily", "hourly"] *Required*. If the action is set to configure. Sets the update frequency to daily or hourly.

- **snapshottime**: String *Required*. If the action is set to configure. Sets the snapshot time. The string must have the following format (using lex-like syntax): h{1,2}:m{1,2}:s{1,2}(ms{1,2})?

- **importfile**: File Sets the xml file’s path used to import the Data Store properties.

- **logdir**: File *Required*. Sets the log directory where the Updater creates the log files.

- **language**: String *Not required*. Defaults to the JVM default language. Sets the language that is used to run the updater process.

- **action**: String ["configure", "import", "run-updater", "create-database", "recreate-database", "drop-database", "clean-database"] *Required*. Defines the operation to execute:
  - **configure**: configure the Data Store properties.
  - **import**: import Data Store properties from a file.
  - **run-updater**: run the updater process.
  - **create-database**: create a new schema.
  - **drop-database**: drop an existing schema.
  - **recreate-database**: drop an existing schema and create it.
  - **clean-database**: create a new schema if it does not exist, or remove all the existing objects otherwise.

- **bamconfiguration**: String *Required*. If the action is set to configure. Sets the name of the BAM database resource configuration. This is the configuration to use for the BAM back-end database.
• **runworkload** – boolean *Not required*. Defaults to true. Sets whether workload metrics are generated or not.

• **generateo3cubes** – boolean *Not required*. Defaults to false. Sets whether the updater generates O3 cubes after filling the Data Store database.

• **runperformance** – boolean *Not required*. Defaults to true. Sets whether performance metrics are generated or not.

• **o3serverport** – int *Not required*. Defaults to localhost. Sets the port number where the O3 Server is listening for incoming requests.

• **disableupdate** – boolean *Not required*. Defaults to false. Sets whether the updater is enabled or not.

• **bam** – boolean *Not required*. Defaults to true. Sets whether the database operations are performed using the BAM database or the Data Store database. The database operations include: **run-updater, create-database, drop-database, recreate-database, clean-database**

• **disablebamupdate** – boolean *Not required*. Defaults to true. Sets whether the BAM service is enabled or not.

**Parameters accepted as nested elements:**

```
<admin>
```

Represents the credentials for an "Administrator" user.

If it’s used to represent a Fuego Directory administrator, then **participant** should be used for the participant id. For connections to other systems (like DBMSs) the **user** attribute will be used.

This element is required when **action** equals **enable-location, create-database, clean-database or drop-database**.

Parameters:

• **participant** – String *Required*. When used to connect to a Fuego Directory

• **user** – String *Required*. When used for connections not to the Fuego Directory

• **password** – String *Required*. 
5 fuego.j2ee Library

5.1 Task fuego.j2ee:buildallprojects

This ant task generates an ear file for each deployed project in the engine.

Example:

```xml
<target name="build-all-projects" description="Build all projects ears">
   <fuego.j2ee:buildallprojects fuegobasedir="${fuego.basedir}"
      destDir="${destination.dir}"  
      workdir="${fuego.workdir}"  
      directoryfile="${fuego.directory.file}" 
      engineid="${engine.name}"/>
</target>
```

Parameters:

- **destdir** – File **Required**. The destination directory of the generated archive files.
- **directorypreset** – String
- **engineid** – String **Required**. The Fuego Server identification. The server is used to obtain the Application Server Vendor and configure the EAR based on it.
- **verbose** – boolean
- **fuegobasedir** – File
- **loaderref** – Reference
- **directoryfile** – File
- **workdir** – File **Required**. The directory must exist and writable. A writable directory were temporary files are generated.

5.2 Task fuego.j2ee:buildconsole

Task to build the Console Web Application as a war file (or its expanded version).

Example:

```xml
<target name="build-console" description="Build console war">
   <fuego.j2ee:buildconsole fuegobasedir="${fuego.basedir}"
      destfile="${destination.file}"  
      workdir="${fuego.workdir}" 
    </fuego.j2ee:buildconsole>
</target>
```
5.3 Task fuego.j2ee:buildear

Generates the ear files for a given engine or deployed project.

Example 1 Building an engine ear:

```xml
<target name="build-engine" description="Build engine ear">
  <fuego.j2ee:buildear fuegobasedir="${fuego.basedir}" destfile="${destination.file}" displayName="${displayName}"
    workdir="${fuego.workdir}" directoryfile="${fuego.directory.file}"
    engineid="${engine.name}" />
</target>
```
Example 2 Building a project ear:

```xml
<target name="build-project" description="Build project ear">
  <fuego.j2ee:buildear fuegobasedir="${fuego.basedir}" 
    destfile="${destination.file}" displayName="${displayName}" 
    workdir="${fuego.workdir}" 
    directoryfile="${fuego.directory.file}" 
    engineid="${engine.name}"/>
  <fuego.j2ee:project name="${project.name}"/>
</target>
```

Example 2 Building the greatest deployed revision of a project ear:

```xml
<target name="build-project" description="Build project ear">
  <fuego.j2ee:buildear fuegobasedir="${fuego.basedir}" 
    destfile="${destination.file}" displayName="${displayName}" 
    workdir="${fuego.workdir}" 
    directoryfile="${fuego.directory.file}" 
    engineid="${engine.name}"/>
  <fuego.j2ee:project name="${project.name}" greatest="true"/>
</target>
```

Parameters:

- **destdir** – File *Required*. required if destFile has not been specified. The destination directory where the archive file will be written. The file name of the destination archive is calculated based on the module included in the ear. This ear should contain a single module.

- **includelibs** – boolean *Not required*. Defaults to False. Include the required libs for the ear inside the ear itself.

- **directorypreset** – String

- **destfile** – File *Required*. required if destDir has not been specified. The file name of the destination archive file.

- **engineid** – String *Required*. The Fuego Server identification. The server is used to obtain the Application Server Vendor and configure the EAR based on it.

- **verbose** – boolean

- **displayName** – String *Not required*. The description of the ear application.
- **fuegobasedir** – File
- **loaderref** – Reference
- **templateset** – String
- **directoryfile** – File
- **workdir** – File **Required.** The directory must exist and it must be writable. A writable directory where temporary files are generated. All the content of the workDir will be delete before executing the task

**Parameters accepted as nested elements:**

**<portal>** Indicates the creation of the Portal war
Parameters:

- **expanded** – boolean
- **uri** – String
- **webmodulename** – String **Not required.** Defaults to `portal.war`

**<console>** Indicates the creation of the WebConsole war
Parameters:

- **expanded** – boolean
- **uri** – String
- **webmodulename** – String **Not required.** Defaults to `console.war`

**<portaladmin>** Indicates the creation of the PortalAdmin war
Parameters:

- **expanded** – boolean
- **uri** – String
- **webmodulename** – String **Not required.** Defaults to `portal.war`

**<engine>** Indicates the creation of the engine ear
Parameters:

**<project>** Represents a deployed project
Parameters:

- **name** – String **Required.**
- **greatest** – boolean **Not required.** Defaults to `false`. 
5.4 Task fuego.j2ee:buildportal

Task to build the Portal Web Application as a war file (or its expanded version).

Example:

```xml
<target name="build-portal" description="Build portal war">
  <fuego.j2ee:buildportal fuegobasedir="${fuego.basedir}" 
    destfile="${destination.file}" 
    workdir="${fuego.workdir}" 
    directoryfile="${fuego.directory.file}" 
    engineid="${engine.name}" 
    uri="/fuego/portal"/>
</target>
```

Parameters:

- **destdir** – File
- **uri** – String
- **directorypreset** – String
- **destfile** – File
- **engineid** – String Required. The Fuego Server identification. The server is used to obtain the Application Server Vendor and configure the EAR based on it.
- **verbose** – boolean
- **fuegobasedir** – File
- **loaderref** – Reference
- **templateset** – String
- **directoryfile** – File
- **workdir** – File Required. The directory must exist and it must be writable. A writable directory where temporary files are generated. All the content of the workDir will be delete before executing the task

5.5 Task fuego.j2ee:buildportaladmin

Task to build the Portal Administration Web Application as a war file (or its expanded version).

Example:
<target name="build-portaladmin" description="Build portal admin war">
  <fuego.j2ee:buildportaladmin fuegobasedir="${fuego.basedir}"
    destfile="${destination.file}"
    workdir="${fuego.workdir}"
    directoryfile="${fuego.directory.file}"
    engineid="${engine.name}"
    uri="/fuego/portaladmin"/>
</target>

Parameters:

- **destdir** – File
- **uri** – String
- **directorypreset** – String
- **destfile** – File
- **engineid** – String Required. The Fuego Server identification. The server is used to obtain the Application Server Vendor and configure the EAR based on it.
- **verbose** – boolean
- **fuegobasedir** – File
- **loaderref** – Reference
- **templateset** – String
- **directoryfile** – File
- **workdir** – File Required. The directory must exist and it must be writable. A writable directory where temporary files are generated. All the content of the workDir will be delete before executing the task

5.6 Task fuego.j2ee:deploy

Deploys ear files to the App Server.

The deployment is done via the Fuego J2EE Deployer application, which must be deployed and available for this task to work.

Refer to the Fuego J2EE Deployer documentation for details.

Example:
Parameters:

- **targetname**– String *Required*. The name of the server or cluster were the operation will be performed.

- **url** – String *Required*. The location URL of the deployer web application. Remember that the url should end in "servlet/worker" Example "http://host:port/fuego/deployer/servlet/worker".

- **startafterdeploying**– boolean *Not required*. Defaults to False Start the applications after being deployed.

- **verbose**– boolean

- **earspath**– String *Required*. cannot be used together with earfile Specify multiple ear files located in this path.

- **fuegobasedir**– File

- **loaderref**– Reference

- **cluster**– boolean *Not required*. Defaults False If the target WebSphere server is clustered or not.

- **failonerror**– boolean *Not required*. Defaults to false Whether to stop the ant build process if an error occurs during the execution of this task.

- **earfile**– String *Required*. cannot be used together with earspath Specify the ear file to be deployed

### 5.7 Task fuego.j2ee:showAppStatus

This task shows the status of an application deployed in a J2EE Application Server. It relies on the Fuego J2EE Deplyeer application, which must be deployed and available for this task to work.

Example:
Parameters:

- **url** – String *Required.* The location URL of the deployer web application. Remember that the url should end in "servlet/worker". Example "http://host:port/fuego/deployer/servlet/worker".

- **verbose** – boolean

- **earspath** – String *Required.* cannot be used together with **earfile** or **applicationName**. Specify multiple applications based on local ear files located in this path.

- **applicationname** – String *Required.* cannot be used together with **earspath** or **earFile**. Specify the application to process using the name defined for it in the Application Server. This name is typically shown in the Application Server administrative console.

- **fuegobasedir** – File

- **loaderref** – Reference

- **failonerror** – boolean *Not required.* Defaults to false. Whether to stop the ant build process if an error occurs during the execution of this task.

- **earfile** – String *Required.* cannot be used together with **earspath** or **applicationName**. Specify the application to process based on a local ear file.

5.8 Task fuego.j2ee:startApp

Starts an application in a J2EE Application Server.

It relies on the Fuego J2EE Deployer application, which must be deployed and available for this task to work.

Example:
Parameters:

- **url** – String *Required*. The location URL of the deployer web application. Remember that the url should end in "servlet/worker" Example “http://host:port/fuego/deployer/servlet/worker”.

- **verbose** – boolean

- **earspath** – String *Required.* cannot be used together with **earfile** or **applicationName** Specify multiple applications based on local ear files located in this path.

- **applicationname** – String *Required.* cannot be used together with **earspath** or **earFile** Specify the application to process using the name defined for it in the Application Server. This name is typically shown in the Application Server administrative console.

- **fuegobasedir** – File

- **loaderref** – Reference

- **failonerror** – boolean *Not required.* Defaults to false Whether to stop the ant build process if an error occurs during the execution of this task.

- **earfile** – String *Required.* cannot be used together with **earspath** or **applicationName** Specify the application to process based on a local ear file.

---

5.9 Task fuego.j2ee:stopApp

Stops an application in a J2EE Application Server.

It relies on the Fuego J2EE Deployer application, which must be deployed and available for this task to work.

Example:

```
<target name="stop-application" description="Stop application">
  <fuego.j2ee:stopApp applicationName="${application.name}" url="http://host:port/fuego/deployer/servlet/worker"/>
</target>
```

Parameters:

- **url** – String *Required.* The location URL of the deployer web application. Remember that the url should end in "servlet/worker" Example “http://host:port/fuego/deployer/servlet/worker”.
• **verbose** – boolean

• **earspath** – String *Required*. cannot be used together with **earfile** or **applicationName** Specify multiple applications based on local ear files located in this path.

• **applicationName** – String *Required*. cannot be used together with **earspath** or **earFile** Specify the application to process using the name defined for it in the Application Server. This name is typically shown in the Application Server administrative console.

• **fuegobasedir** – File

• **loaderref** – Reference

• **failonerror** – boolean *Not required*. Defaults to false Whether to stop the ant build process if an error occurs during the execution of this task.

• **earfile** – String *Required*. cannot be used together with **earspath** or **applicationName** Specify the application to process based on a local ear file.

5.10 Task **fuego.j2ee:undeploy**

Undeploys an application from a J2EE Application Server.

It relies on the Fuego J2EE Deployer application, which must be deployed and available for this task to work.

Example:

```xml
<target name="undeploy-ear" description="Undeploy ear">
  <fuego.j2ee:undeploy earFile="${ear.file}" url="http://host:port/fuego/deployer/servlet/worker"/>
</target>
```

**Parameters:**

• **url** – String *Required.* The location URL of the deployer web application. Remember that the url should end in "servlet/worker" Example "http://host:port/fuego/deployer/servlet/worker".

• **verbose** – boolean

• **earspath** – String *Required*. cannot be used together with **earfile** or **applicationName** Specify multiple applications based on local ear files located in this path.
• **applicationname**– String *Required.* cannot be used together with **earspath** or **earFile** Specify the application to process using the name defined for it in the Application Server. This name is typically shown in the Application Server administrative console.

• **fuegobasedir**– File

• **loaderref**– Reference

• **failonerror**– boolean *Not required.* Defaults to false Whether to stop the ant build process if an error occurs during the execution of this task.

• **earfile**– String *Required.* cannot be used together with **earspath** or **applicationName** Specify the application to process based on a local ear file.