



CA Release Automation
JBOSS Shared Components
Release Notes

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What is a Shared Component

Shared components enable users to create deployment logic once and share the logic across multiple applications. Each shared component has multiple revisions with each revision acting like a regular component. Shared components help organizations establish best practices by defining standards regarding common deployments.

Using shared components ensures that all teams follow the same guidelines and workflows. For example, if you have multiple applications that use a Tomcat server, define the flows in a shared component and use it in all applications.

Introduction

These release notes are for the newly developed shared components for JBoss application server. These shared components have been developed based off the “JBoss action pack” that is part of the Release Automation installation environment.

The “JBoss” action pack needs to be installed in the Release Automation installation for this shared component to function.

This JBoss shared components library has been created to help you quickly deploy applications in a JBoss application server, as well as manage the JBoss application servers.

This package is composed of the shared components zipfiles and this release notes.

What’s New

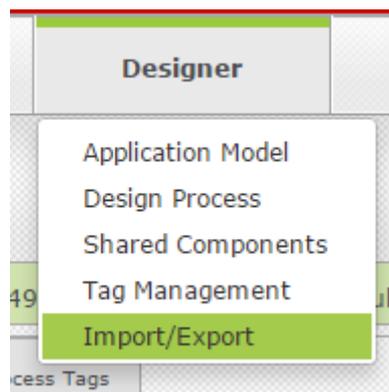
This is the initial release of the JBoss shared components that is being supplied by CA technologies.

Fixes

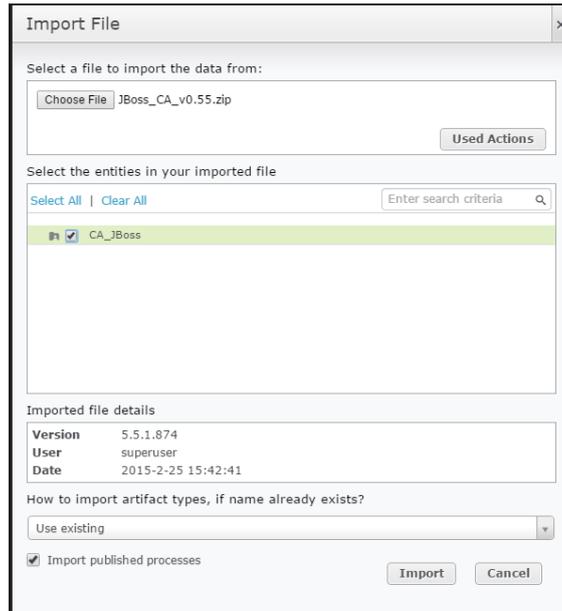
Initial release

Installation

You will install this shared component by the “Import/Export” option from the Designer tab.



Once you are in the Import/Export interface, you will need to click the “Import” button, and enter the information for the JBoss shared component as shown below.



Once the importation has completed, you can make sure that the artifact type definition have been created, as well as the artifact packages that you will need.

You are now ready to use the shared component in the desired applications.

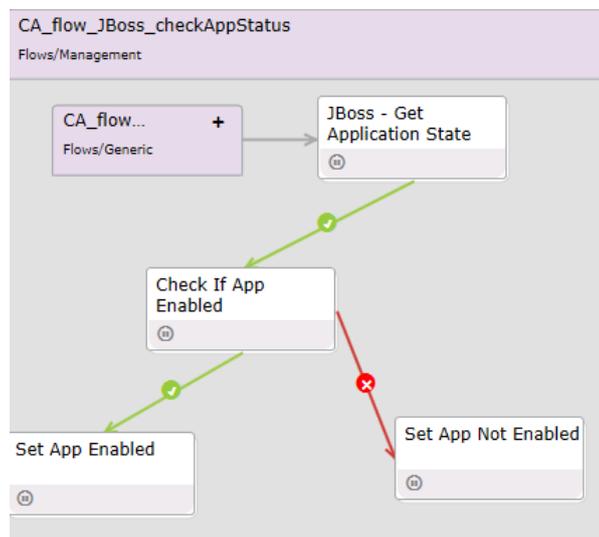
Workflows

This document will list the work flows that are part of this shared components library, these flows are listed based on categories, those categories and the listing of the available flows.

Category Management

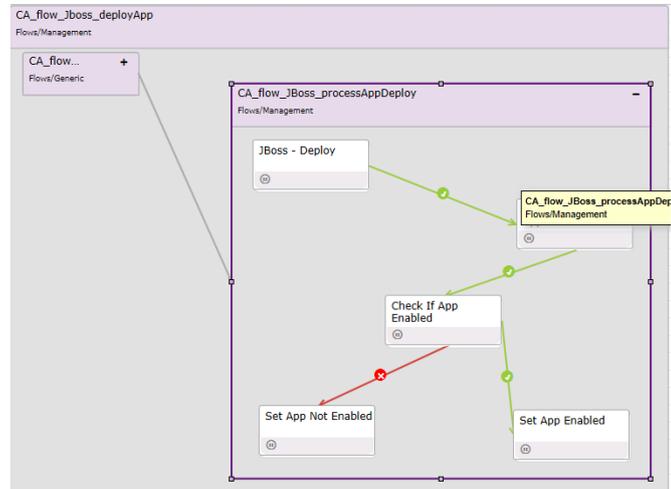
CA_flow_JBoss_checkAppStatus

Description: This flow will check the application status in the JBoss app server.



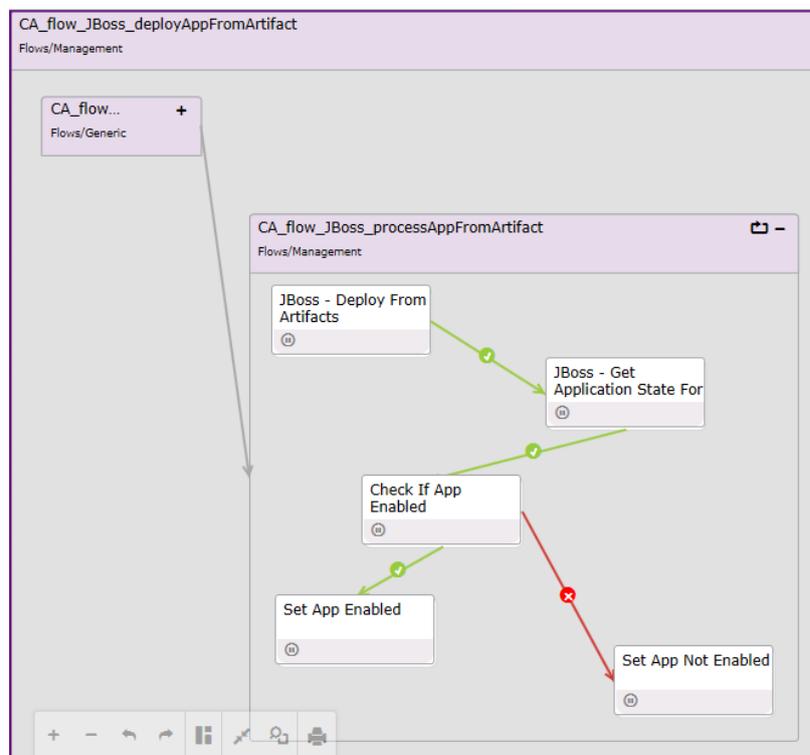
CA_flow_JBoss_deployApp

Description: Deploying a single application to the JBoss application server.



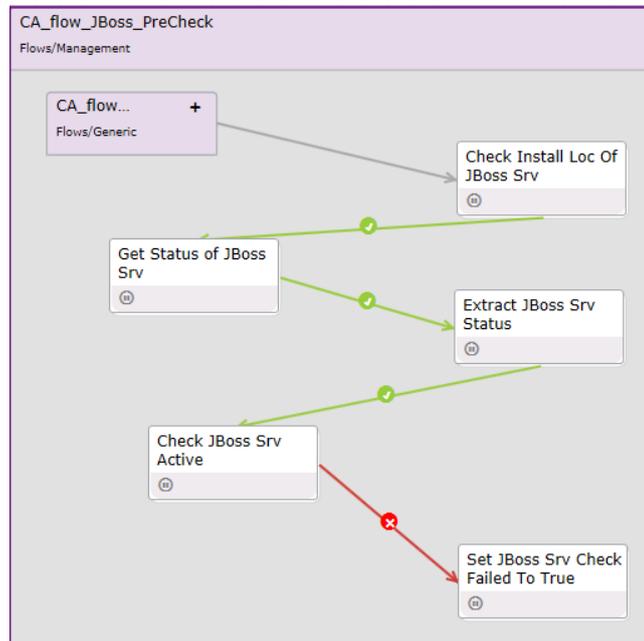
CA_flow_JBoss_deployAppFromArtifact

Description: Deploying applications as defined in the Release Automation global artifacts (by default jbossApps) into the JBoss application server.



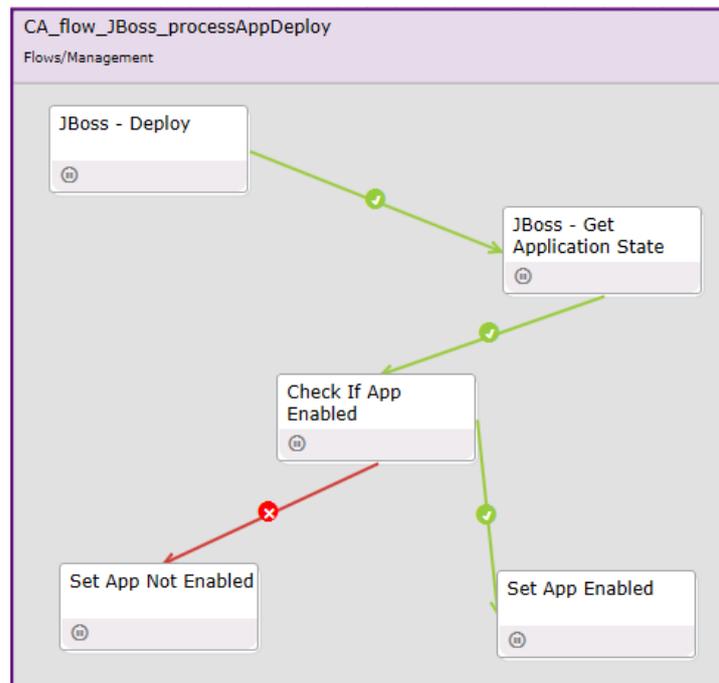
CA_flow_JBoss_preCheck

Description: This flow will perform a pre-check of the JBoss app server to make sure that is up and running.



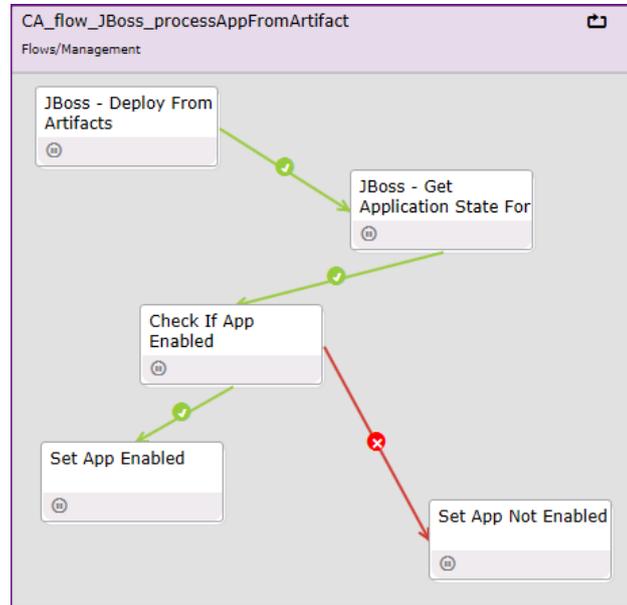
CA_flow_JBoss_processAppDeploy

Description: Process the deployment of a single application in a JBoss app server.



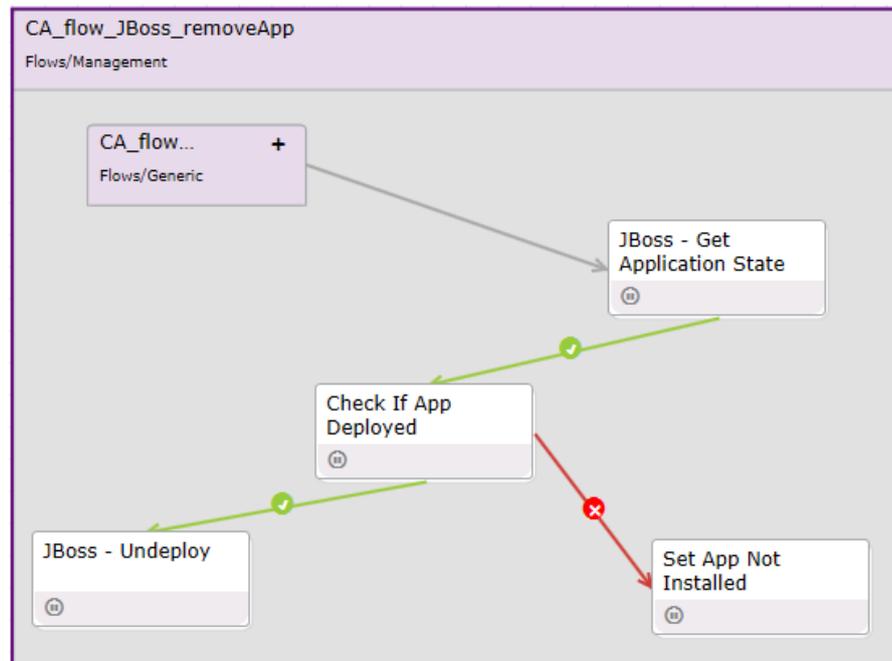
CA_flow_JBoss_processAppFromArtifact

Description: Process the deployment of applications as defined in an artifact package that is part of the default jbossApps artifact type to a JBoss app server. This flow is defined to run based off a “Collections” loop for the jbossApps artifact type.



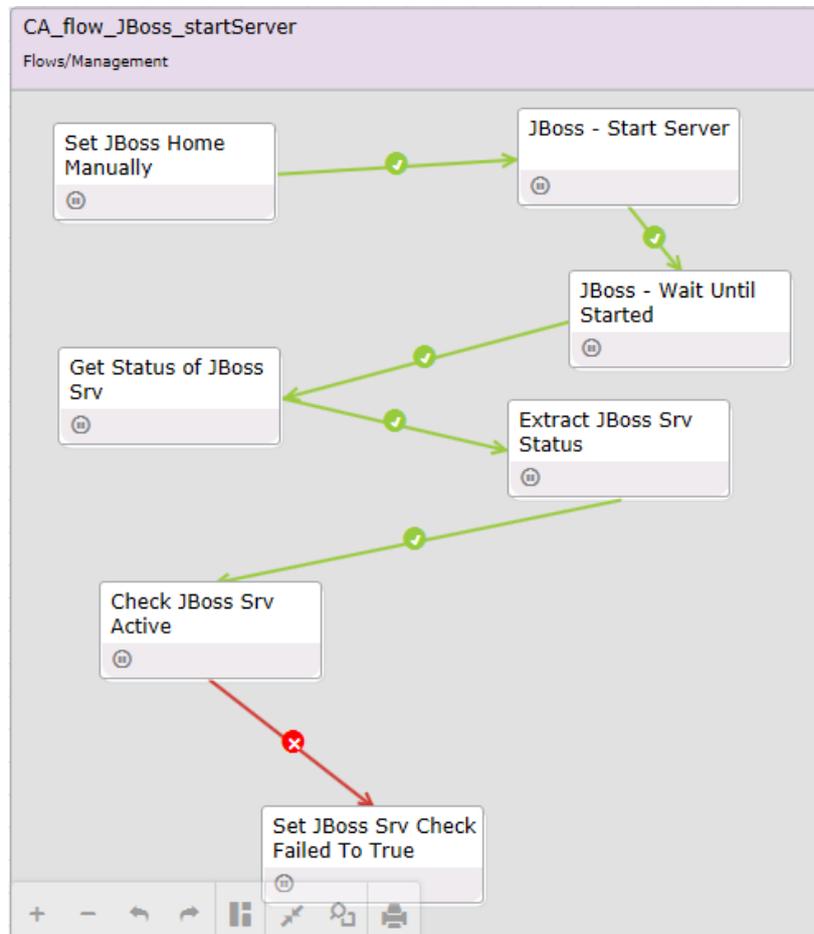
CA_flow_JBoss_removeApp

Description: Removing a deployed application in a JBoss application server.



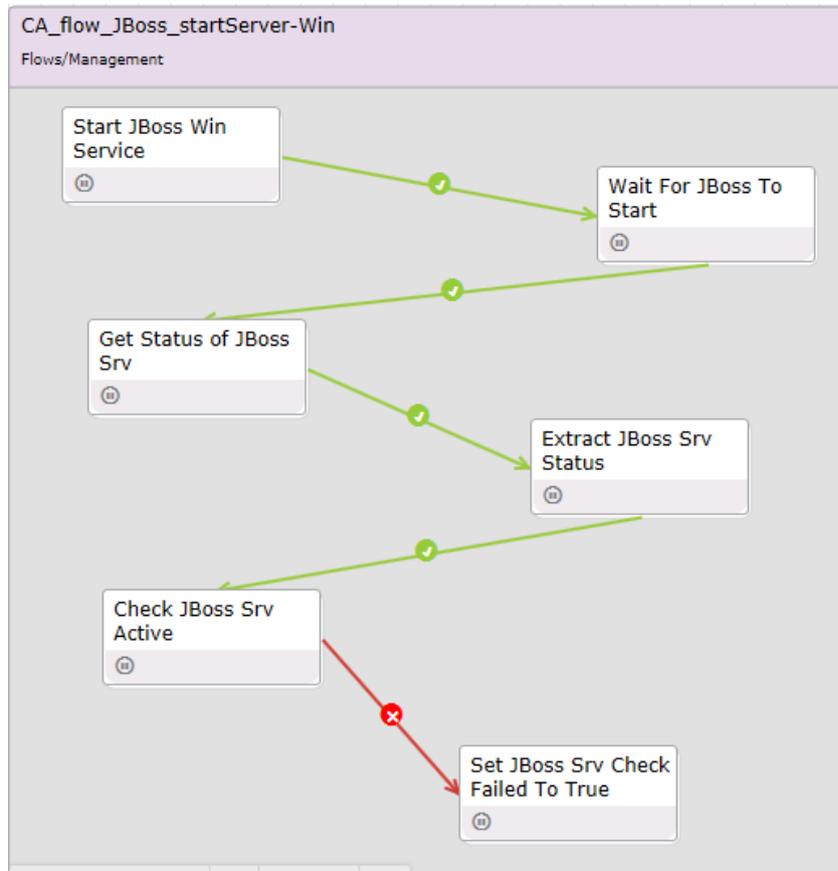
CA_flow_JBoss_startServer

Description: This flow will start up the JBoss application server in a generic format.



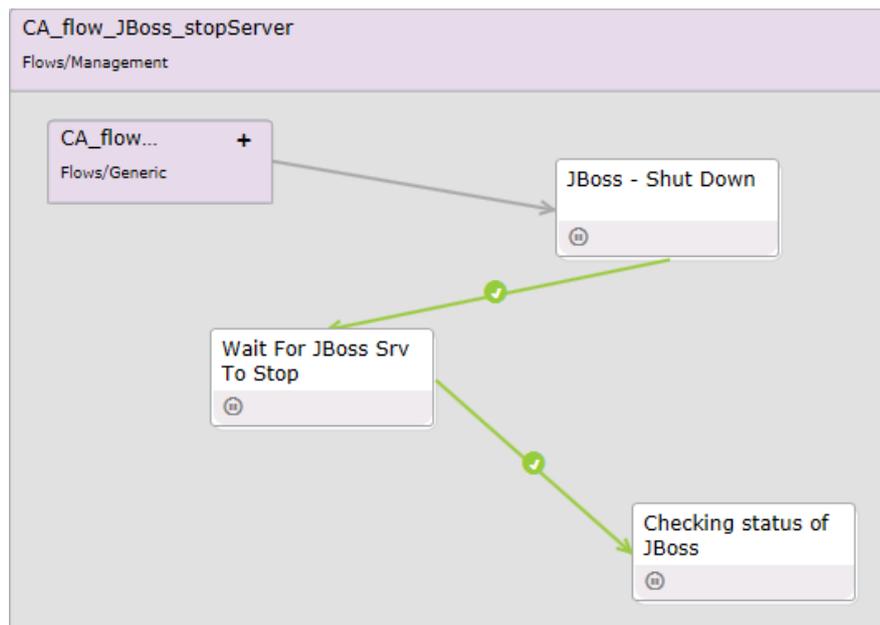
CA_flow_JBoss_startServer-Win

Description: This flow will start up the JBoss app server based off the default Windows service name created by the JBoss utilities.



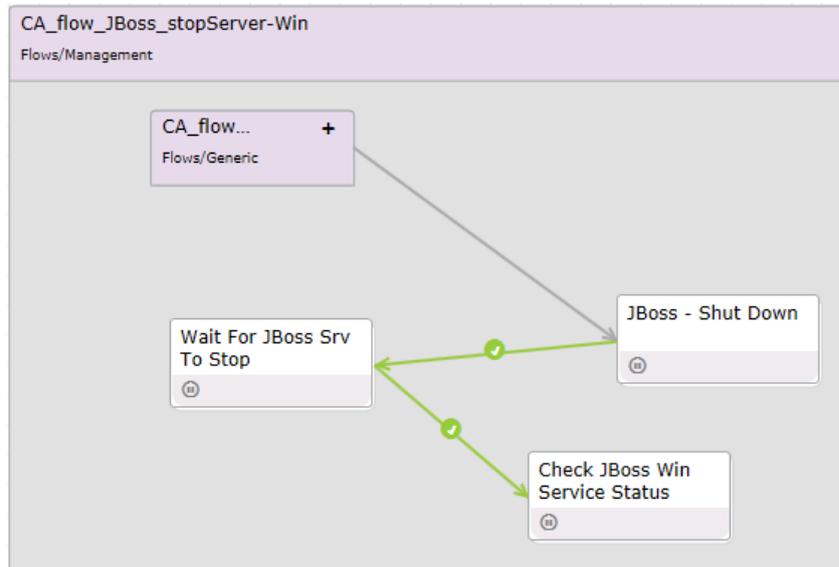
CA_flow_JBoss_stopServer

Description: This flow will stop the JBoss application server in a generic format.



CA_flow_JBoss_stopServer-Win

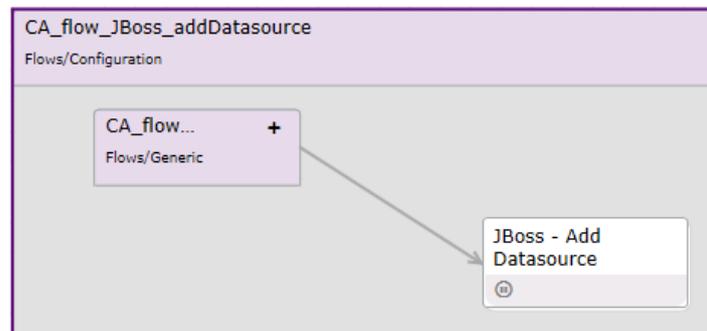
Description: This flow will stop the JBoss app server in a Windows env, where the server has been configured by the JBoss utilities.



Category Configuration

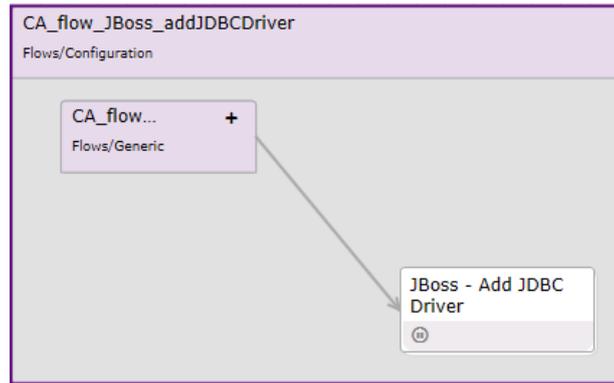
CA_flow_JBoss_addDatasource

Description: Adding a database data source to a JBoss application server.



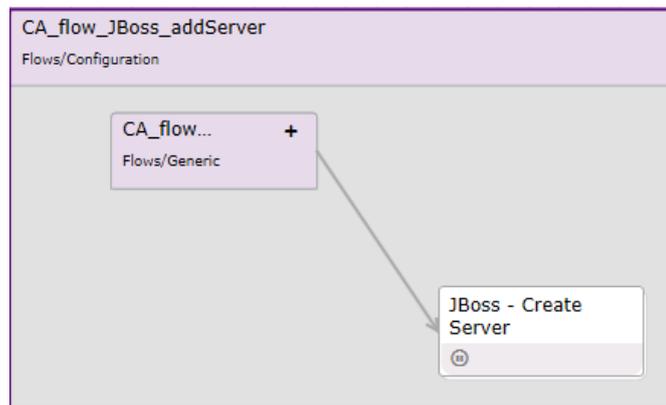
CA_flow_JBoss_addJDBCdriver

Description: Add a JDBC driver to a JBoss application server.



CA_flow_JBoss_addServer

Description: Add an additional server to a JBoss application server running in domain mode.



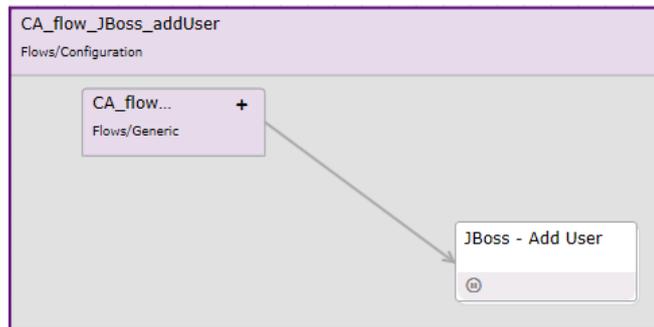
CA_flow_JBoss_addServerGroup

Description: Adding a server group to a JBoss application server running in domain mode.



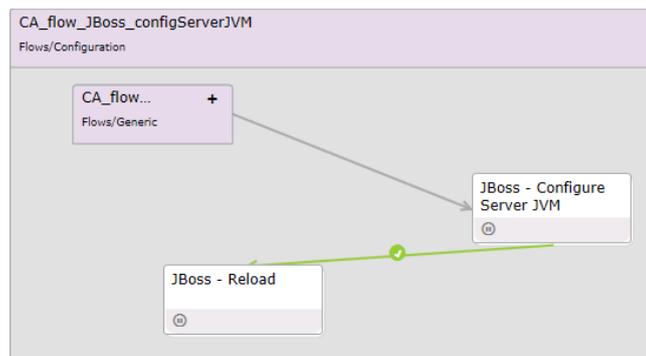
CA_flow_JBoss_addUser

Description: Add a user to the JBoss application server.



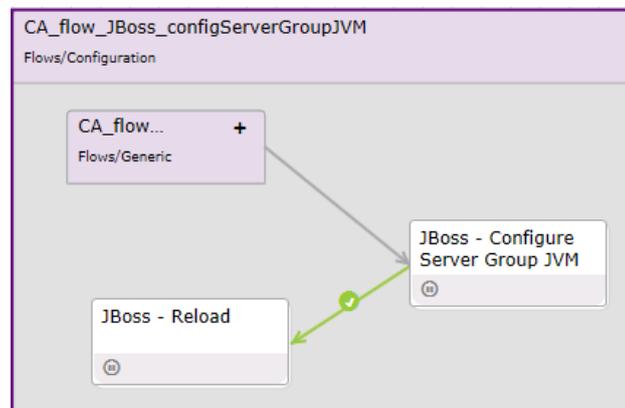
CA_flow_JBoss_configServerJVM

Description: Configure the server JVM entries in a JBoss application server.



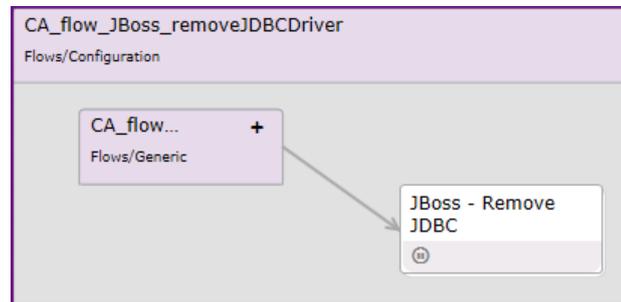
CA_flow_JBoss_configServerGroupJVM

Description: Update the configuration entries for the server group JVM in a JBoss application server.



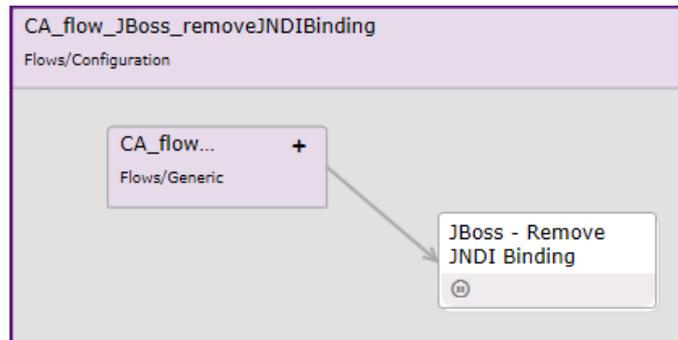
CA_flow_JBoss_removeJDBCdriver

Description: Remove a defined JDBC driver in a JBoss application server.



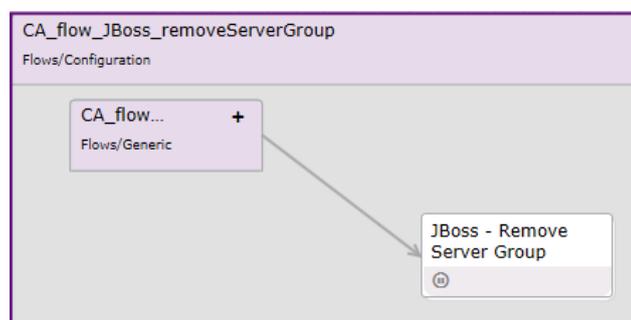
CA_flow_JBoss_removeJNDIBinding

Description: Remove a defined JNDI binding from a JBoss application server.



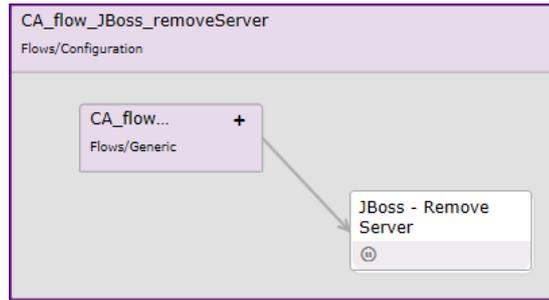
CA_flow_JBoss_removeServerGroup

Description: Remove a server group in a JBoss application server running in domain mode.



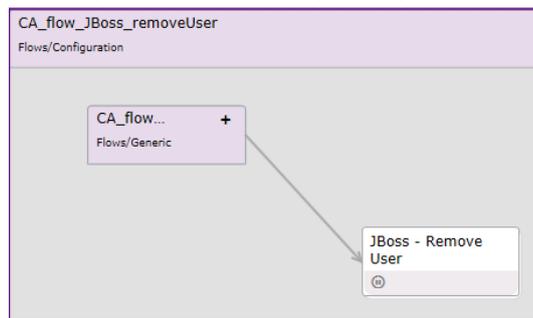
CA_flow_JBoss_removeServer

Description: Remove a server from a JBoss application server running in domain mode.



CA_flow_JBoss_removeUser

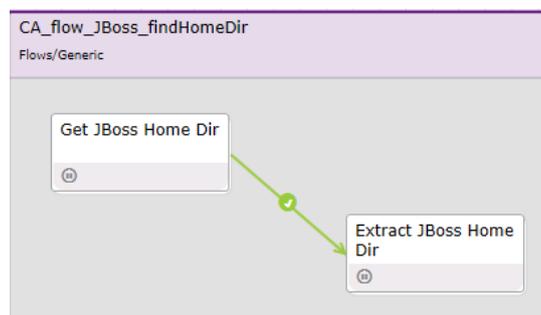
Description: Remove a user from a JBoss application server.



Category Generic

CA_flow_JBoss_findHomeDir

Description: This generic flow extracts the JBoss app server home directory at runtime, instead of providing this information via parameters.



If you do not want to use any of the provided flows in this shared component package, you can use the pre-defined actions directly, which are pre-populated with pre-defined parameters.

The actions are also listed by category, these are the available categories.

- Generic
- JBoss
- Setters
- Getters
- Checkers

Environment Variables

These are the environment variables that you would have to update for each given environment. This list will start with the generic variables that are familiar to the JBoss shared component.

Generic

These are the parameters that are always going to be utilized in this shared component.

- controllerHost_CAe
- controllerUsername_CAe
- controllerPassword_CAe
- ControllerPort_CAe

The following parameters are necessary when you are just going to be dealing with a single application deployment, where it is necessary that you know the location from where the application will be deployed from to the JBoss application server. For example the value for the “appToDeploy_CAe” will be “app.war”.

- appToDeployLoc_CAe
- appToDeploy_CAe

Configuration

These are the environment variables that will allow you to perform configuration changes to the JBoss application server.

- newJBossServer_CAe
- serverGroup_CAe
- serverName_CAe
- userJBoss_CAe
- userPasswordJBoss_CAe

It is also important that you realize that a JBoss application server can be started in either “standalone” or “domain” mode, this is controlled by the following internal variable “opsMode_CA”, which is default to “standalone” mode.

The shared component will determine at runtime the “JBoss home dir” and populate the internal environment variable “JBossHome_CA” prior to executing the flows within each of the JBoss shared component.

Artifacts

As part of the JBoss shared component, the following *global* artifacts have been defined to be used as part of the shared component.

- jbossApps
- jbossConfig

If these artifacts do not exist in the Release Automation installation, they will be created automatically; you will still need to populate these artifacts by adding the necessary artifact type definitions, and artifact software packages.

It is also very important that the appropriate server type be assigned to these newly created global artifacts.

These global artifacts will become part of the application that utilizes this shared component.