

Universal Command Agent for SOA 5.2.0

XD Connector

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Getting Started with Universal Command Agent for SOA - XD Connector 5.2.0

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Objective

The objective of this document is to assist in the following activities regarding the Universal Command Agent for SOA: XD Connector:

- Installing Opswise Universal Agent for SOA 5.2.0, which is comprised of:
 - Universal Command Agent for SOA
 - Universal Event Monitor for SOA
- Validating the WebSphere environment.
- Running the XD Connector on Universal Command Agent for SOA.

Installation Requirements

The following is required for running Universal Command Agent for SOA with an XD Connector:

• Opswise Universal Agent 5.2.0.0 or later (32-bit package): installed, licensed, and running.

Installation

Note

These instructions describe installation of the Opswise Universal Agent for SOA 5.2.0 for the Linux x86 package.

Opswise Universal Agent for SOA 5.2.0 is packaged as an RPM file (extension .rpm). It is installed using the Linux rpm command.

The name of the Opswise Universal Agent for SOA 5.2.0 package file has the following format:

sb-soa-5.2.0.0-linux-2.4-i386.tar.Z

(The name assumes product maintenance level 5.2.0.0 for Opswise Universal Agent for SOA 5.2.0.)

To unpack and install Opswise Universal Agent for SOA, perform the following steps:

Step 1	Create a directory (or select an existing directory) in which to save the package file.			
Step 2	Save the package file into that directory.			

Step 3 Uncompress and extract the installation files in the current working directory. The command to extract the files is:							
	zcat sb-soa-5.2.0.0-linux-2.4-i386.tar.Z tar xvf -						
	If your operating system does not support the zcat command, use the following command: gunzip sb-soa-5.2.0.0-linux-2.4-i386.tar.Z The output of the gunzip command provides the following tar file: tar -xvf sb-soa-5.2.0.0-linux-2.4-i386.tar						
Step 4	After the extraction is complete, run the installation script, upsinst , which executes the rpm command:						
	./upsinst						
	An installation log is written to file install.log in the current directory. upsinst automatically restarts the Universal Broker daemon, ubrokerd , at the end of the install.						
Step 5	From the license file that was sent to you by Stonebranch, Inc., add the license information to the /etc/universal/uacs.conf file.						
Step 6	Recycle Universal Broker using the following commands (cd to /opt/universal/ubroker):						
	First:						
	./ubrokerd stop						
	Then:						
	./ubrokerd start						

Step 7	Use Universal Query (cd to /opt/universal/bin) to validate that the Universal Application Container Server component of Universal Command Agent for SOA 5.2.0 is running:							
	uguery -host localhost (or the name of your server) The output should have the following format:							
	Component ID: 1360109684							
	Component Name: uac (Server)							
	Component Description: Universal Application Container Server							
	Component Version: 5.2.0 Level 0 Release Build 101							
	Component Typei uac							
	Component Process ID: 23331000							
	Component Start Time: 18:14:42							
	Component Start Date: 02/05/13 Component Command ID: uac							
	Component State: REGISTERED							
	Component MGR UID							
	Component MGR Work ID:							
	Component MGR Host Name:							
	Component MGR IP Address:							
	Component MGR Port							
	Component Comm State: ESTABLISHED							
	Component Comm State Time.: 18:14:44							
	Component Comm State Date.: 02/05/13							
	Component MGR Restartable.: NO							
	Component Comment:							

Validating the WebSphere XD Environment

To ensure trouble-free operation of Universal Command Agent for SOA: XD Connector 5.2.0, the WebSphere XD environment must be set up correctly.

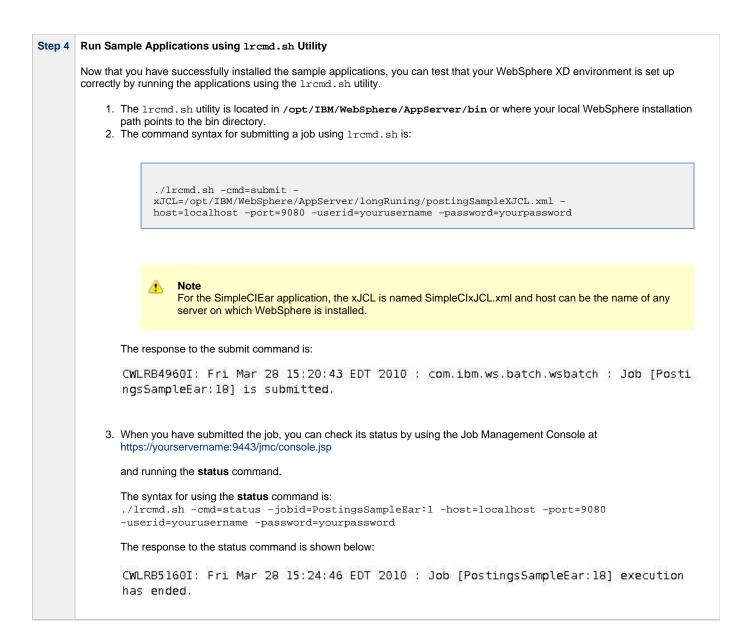
The following steps should be made before using the Universal Command Agent for SOA: XD Connector 5.2.0.

Secu	ire administration, applications, and infra	structure
	ecure administration, applications, and in	
т	he application serving environment is com	pletely secured when administration is
	ne administration and applications also are	secured.
	Configuration	
	Security Configuration Wizard	Security Configuration Report
	Administrative security	
	Enable administrative security	Administrative User Roles
		Administrative Group Roles
	Application security	
	Enable application security	
	Java 2 security	
	Use Java 2 security to restrict ap	oplication access to local resources
		anted custom permissions

Step 2	2 Map Users to Job Scheduler								
	Users that have been set up in WebSphere must be mapped to a user in the job scheduler before they can run operations in the job scheduler.								
	 Select System administration / Job scheduler in the Integrated Solutions Console menu. Click Security role to user/group mapping in the Addition Properties group to display the Security role to user/group mapping page. 								
	Jo	b schedu	ler				2 -		
		Job sche	duler						
	ſ	job infor charge-b	he job scheduler accepts grid jobs and determines where and when to execute them. As part of managing jobs, the job scheduler persists b information in an external job database. This configuration panel allows the deployment target, datasource, database schema name, harge-back accounting and endpoint job log location to be configured for the scheduler.						
		Configu	ration						
		General Properties			Additional Pro	perties			
			neduler hosted by 'ebSphere:cell=soates	st2Node01Cell,no	de=soatest2Node01,server=serve	er1 💌			
			tabase schema name	8		Custom Custom Iob class			
		Sec.	SSCHEMA			Security webspri	role to user/group mapping ere grid enopoints		
		1.1	bc/Irsched ⊻						
			dpoint job log location GRID_JOBLOG_ROOT]			Related Items	5		
			Record usage data i	in scheduler data	base	 JDBC pro Middlewa 			
			Record usage data i	in SMF (z/OS only)	Service ;	su distante contra		
		Ap	pply OK Rese	t Cancel					
			ebSphere users to nticated? checkb		or Iradmin (or other job sch	eduler users if you hav	e created them). Make sure the		
	Th	e follow	ving screen illustra	ites the results	of mapping the WebSpher	e user admin to the Irs	ubmitter job scheduler user.		
	oť	b schedu	ler				2 -		
			eduler > Security role		apping				
			role to user/group ma		module must map to a user or o	roup from the domain user r	egistry.		
	Each role that is defined in the application or module must map to a user or group from the domain user registry. Look up users Look up groups								
		D							
		Select		Everyone?	All authenticated?	Mapped users	Mapped groups		
			Irsubmitter			admin			
			Iradmin						

OK Cancel

Install the Job Scheduler Sample Applications								
	You must install the SimpleCIEar and PostingsSampleEar applications if you want to validate the WebSphere XD installation and the Universal Command Agent for SOA: XD Connector operation.							
	Go to Applications / Install New Applications in the Integrated Solutions Console menu. Keep in mind that the PostingsSampleEar application requires the database to be set up before you install the application.							
	The followin	reen illustrates the two applications after they are installed.						
Enterprise Applications								
Use this page to manage installed applications. A single application can be deployed onto multiple servers. Preferences Start Stop Install Uninstall Update Rollout Update Remove File Export DDL Export File The server								
	Select	Name 👌 Application Status ሷ						
		DefaultApplication						
PostingsSampleEar_		PostingsSampleEar.						
		SimpleCIEar						
		ivtApp. 🚯						
		auery 🗢						
	Total 5							



Running a Universal Command Agent for SOA Job on z/OS Connecting to XD Connector

You now can run jobs in WebSphere XD using the Universal Command Agent for SOA: XD Connector.

The following z/OS examples reference the PostingsSampleEar application.

Step 1	Create the UMCD Manager JCL.						
	This provides the UCMD Manager options, references to the XD Connector options, and the xJCL payload.						
It has the following format:							
	<pre>//UACXD1A JOB CLASS=A,MSGCLASS=X,NOTIFY=&SYSUID //* //* //*torestingsSampleEar //*UCMD is the proc that calls UC Manager //*LOGON is the DD with userid and passwd (can use encrypted) //*SCR is the script that contains the XD Connector information //* to connect to Websphere job sche //*UNVIN provides the payload for the script in SCR //***********************************</pre>						
	-i yourserver -G yes -f logon						
Step 2	Create the XD Connector Command Options Data Set Member. This member contains the command options for the XD Connector that specify the required information to submit a job to the WebSpher environment. It is referenced with the SCR ddname and has the following format:						
	<pre># protocol is what protocol you are choosing(XDSOAP) # mep is the type of message (Request) # xdcmd is the xd command you want to perform (submit,restart) # cmdid is a unique identifier to match to jobid(websphere jobid) # serviceusername is the websphere user # serviceusername is the websphere user # servicepassword is the websphere user password # timeoutms is the timeout in milliseconds for the job #************************************</pre>						
Step 3	Create the xJCL Payload Data Set Member.						
	This member contains the xJCL that WebSphere XD will use to run the job specified in the xJCL and is read via STDIN.						
	The xJCL length depends on the job it describes. Verify that your data set member record length can accommodate the maximum line le xJCL.						
	The xJCL is an XML document. It is referenced using the UNVIN ddname, and can be referenced in your WebSphere XD install by going /opt/IBM/WebSphere/AppServer/longRunning/postingSampleXJCL.xml						
	(Your path may be different, depending on how you configured your WebSphere XD install.)						