Server Configuration

Wednesday, May 31, 2017   6:13 PM

JMS ActiveMQ

- Download Address: http://activemq.apache.org/download.html, \\10.43.88.206\Share\Cindy\Software\Other
- Guide Address: http://activemq.apache.org/version-5-getting-started.html
- **Note: precondition - your pc must have been installed Java Running Environment.**
- Common Step:
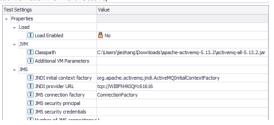   a. Download ActiveMQ and unzip it
    b. Go to conf folder and edit activemq.xml:
       <destinations><queue physicalName="dynamicQueues/dev" /><topic physicalName="dynamicTopics/dev" /></destinations>

    ```
    <queue physicalName="dynamicQueues/dev" />

    <topic physicalName="dynamicTopics/dev" />

    </destinations>

    </broker>
    ```

    c. Go to bin folder and input command "**activemq start**"
    d. **tcp://localhost:61616**, **http://localhost:8161/admin** (admin/admin), **ConnectionFactory**
    e. Edit information in UFT for JMS activity

Test Settings	Value
Properties	
Load	
Load Enabled	No
JVM	
Classpath	C:\Users\jiezhang\Downloads\apache-activemq-5.13.2\activemq-all-5.13.2.jar
Additional VM Parameters	
JMS	
JNDI initial context factory	org.apache.activemq.jndi.ActiveMQInitialContextFactory
JNDI provider URL	tcp://WIBFN4XIQH:61616
JMS connection factory	ConnectionFactory
JMS security principal	
JMS security credentials	
Number of JMS connections	1

MQTT Server - Mosquitto

- Download address: https://mosquitto.org/download/, \\10.43.88.206\Share\Cindy\Software\Other
- Guide address: https://mosquitto.org/man/mosquitto-8.html
- Common Step
    a. Download Mosquitto and install it
    b. Go to installation folder and input command "**mosquitto.exe**", use "**netstat -an**" check port's listening
    c. tcp://localhost:1883
    d. Mqttlen client to test server https://chrome.google.com/webstore/detail/mqttlens/hemojaaeigabkbcookmlgmdigohjobjm?hl=en

MTOM Server, SAML2 Server

- Download address: http://cxf.apache.org/download.html , \\10.43.88.206\Share\Cindy\Software\Other
- Guide address:
  http://cxf.apache.org/docs/sample-projects.html,
  http://cxf.apache.org/docs/overview.html,
  https://github.com/apache/cxf/tree/master/distribution/src/main/release/samples
  http://cxf.apache.org/docs/configuration.html -- Logging mechanism
- **STS Guide**: https://access.redhat.com/documentation/en-US/Fuse_ESB_Enterprise/7.1/html/Web_Services_Security_Guide/files/STS.html
- Note: precondition - Java Running Environment and MVN environment.
- Attention: Take a good look at **ReadMe.txt** (Such as STRONG encryption requirement**)**
- <xop:Include xmlns:xop="http://www.w3.org/2004/08/xop/include" href="cid:7d3a7cb8-1511-4380-b146-e80fdc1c3b25 @example.jaxws.sun.com"/>
- Common Step
    a. **mvn install**
    b. **mvn -Pserver** (from one command line window)
    c. **mvn -Pclient** (from a second command line window)
    d. mvn -Psts (optional) (from a third command window for SAML2)

HTTPS with SSL

- Download address: http://svn.apache.org/viewvc/cxf/trunk/distribution/src/main/release/samples/wsdl_first_https/
- Guide address:
  http://geekswithblogs.net/gvdmaaden/archive/2011/02/24/how-to-configure-soapui-with-client-certificate-authentication.aspx
  http://docs.oracle.com/javase/7/docs/technotes/guides/security/jsse/ReadDebug.html
  https://www.tbs-certificates.co.uk/FAQ/en/627.html
- Note: precondition: Convert JKS to P12 to be used in SoapUI, install P12 into local machine to be used in UFT
- Attention: Take a good look at ReadMe.txt (such as logging mechanism)
- Common Step
    a. Mvn clean install
    b. Mvn -Pserver
    c. Mvn -Psecure.client

IBM WebSphere MQ -- TODO

- Download Address: https://www-01.ibm.com/marketing/iwm/tnd/product.jsp?s=p&id=TDUN-49EVER, \\10.43.88.206\Share\Cindy\Software\Other
- Guide Address:
- Common Step

DELETE QCF(api_ConnectionFactory)

DEFINE QCF(api_ConnectionFactory) qmgr(api_QManager) tran(client)

chan(api_Channel) +
host(localhost) port(1414)

DISPLAY QCF(api_ConnectionFactory)

DELETE Q(api_Queue)

DEFINE Q(api_Queue) qmgr(api_QManger) qu(api_Queue)

DISPLAY Q(api_Queue)

end

1. Install ibm websphere mq
2. Add queuemanger, queue, channel
3. Verify folder for writing information below from the jmsadmin.config: PROVIDER_URL=file:/C:/JNDI-Directory
4. Add scp file in java/bin folder and user above content in the scp file
5. User command jsmadmin.bat to run the file
6. Add jms in mq explorer and verify the information you input.