Some Useful Handy Commands

Message Broker

MQSI List

sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsilist -r

Restart Brokers mqsistop <Broker> /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsistart <Broker> Deploy a BAR file sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsideploy "<Broker> -e <ExecutionGroup> -a <BarFile>" Stop Start Message Flow sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsistopmsgflow "<Broker> -e <ExecutionGroupName> -m <MessageFlow>" sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsistartmsgflow "<Broker> -e <ExecutionGroupName> -m <MessageFlow>"

List All Message flows with execution groups sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsilist -r | grep "Message flow" | grep -v "iap.eai.samples" | grep -v "iap.bib" | awk -F\' '{ print $4" "$2 }' Set DB User and Password mqsisetdbparms <Broker> -n <DSN> -u <User> -p '<Password>' mqsisetdbparms <Broker> -n dsn::DAN -u <User> -p '<Password>' mqsisetdbparms <Broker> -n dsn::<DSN> -u <User> -p '<Password>' Set FTP Credentials mqsisetdbparms <Broker> -n sftp::<SFTP\_ID> -u <User> -p '<Password>'

Enable SSL support on the broker instance

mqsichangeproperties <Broker> -b httplistener -o HTTPListener -n enableSSLConnector -v true Logs JVM Standard Out logs: /var/mqsi/mqsi/components/CMMPBRK1/<EG UID>/stdout JVM Standard Err logs: /var/mqsi/mqsi/components/CMMPBRK1/<EG UID>/stderr

Check Execution Group Start Times grep "Execution group started" /var/mqsi/mqsi/components/CMMPBRK1/<EG UID>/stdout Procedure to take a user or service trace of message flow at an integration server or execution group level http://www-01.ibm.com/support/docview.wss?uid=swg21177321 Create Security Profile mqsicreateconfigurableservice <Broker\_Name> -c SecurityProfiles -o <SecurityProfileObjectName> -n authentication,authenticationConfig,mapping,authorization,propagation -v "LDAP",\"ldap://ldaptest.appl.chrysler.com:389/ou=applications,o=dcx.com?cn"\,"NONE","NONE",TRUE Backup Configuration Before Change Controls ​​Take backup of PAI config directory(/global/site/vendor/mqsi/dcx/config) Take backup of /global/site/vendor/mqsi/jplugin directory Take backup of /var/mqsi/odbc/odbc.ini Take backup of /global/site/vendor/mqsi/jre16/lib/security/cacerts Take Backup of Broker configuration (mqsibackupbroker) Create New Execution Group Refer the following PAI Info Center document link for steps: http://pai.intra.chrysler.com/infocenter/infocenter/PAI\_40/BIB40/platforms/BIB/platform\_documentation/installation/PAI\_BIB\_4.0\_Installation\_Guide\_AIX.pdf ​Create new execution group QL\_00 using PAI BIB scripts. Please refer documentation for creating new execution group. (Scripts DSL Location: /clocal/dsl/Repository/GA/BIB4.0/aix/scripts/BIB\_4.0\_AIX.tar)​ ​​​Note: Please keep INSTALLATION\_DIRECTORY property as "/global/site/vendor" in install.properties files instead of "/global/site/vendor/mqsi".3. Run the Database patch for QL\_00 execution group: Refer to section 7 "PAI BIB 4.0.1 Patch: Considering new database changes" for steps. (Scripts DSL Location: /clocal/dsl/dropbox/PAI/BIB\_4.0/BIB\_4.0\_patch\_4.0.1.tar) Configure Message Broker to serve HTTPS requests mqsichangeproperties <Broker> -o BrokerRegistry -n brokerKeystoreFile -v <Key Store File>​

mqsichangeproperties <Broker> -o BrokerRegistry -n brokerTruststoreFile -v <Trust Store File>

mqsisetdbparms <Broker> -n brokerTruststore::password -u temp -p changeit

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mqsichangeproperties <Broker> -b httplistener -o HTTPListener -n enableSSLConnector -v true

​mqsichangeproperties <Broker> -b httplistener -o HTTPSConnector -n keystoreFile -v <Key Store File>

​mqsichangeproperties <Broker> -b httplistener -o HTTPSConnector -n keystorePass -v <password>

mqsichangeproperties <Broker> -b httplistener -o HTTPConnector -n port -v <Port>

mqsichangeproperties <Broker> -b httplistener -o HTTPSConnector -n port -v <Port>

mqsichangeproperties <Broker> -b httplistener -o HTTPSConnector -n clientAuth -v true

mqsistop <Broker> mqsistart <Broker>

mqsireportproperties <Broker> -b httplistener -o AllReportableEntityNames -a

mqsireportproperties <Broker> -b httplistener -o HTTPListener -a

mqsireportproperties <Broker> -b httplistener -o HTTPSConnector  -a

mqsichangeproperties <Broker> -e <EG> -o HTTPSConnector -n sslProtocol -v TLS

mqsichangeproperties <Broker> -e <EG> -o HTTPSConnector -n explicitlySetPortNumber -v <Port>

mqsichangeproperties <Broker> -e <EG> -o HTTPSConnector -n clientAuth -v true

mqsichangeproperties <Broker> -e <EG> -o HTTPSConnector -n keystoreFile -v <Key Store File>

mqsichangeproperties <Broker> -e <EG> -o HTTPSConnector -n keystoreType -v JKS

mqsichangeproperties <Broker> -e <EG> -o HTTPSConnector -n keystorePass -v <password>

mqsichangeproperties <Broker> -e <EG> -o ComIbmJVMManager -n keystoreFile -v <Key Store File> mqsichangeproperties <Broker> -e <EG> -o ComIbmJVMManager -n keystoreType -v JKS mqsichangeproperties <Broker> -e <EG> -o ComIbmJVMManager -n keystorePass -v brokerKeystore::password mqsichangeproperties <Broker> -e <EG> -o ComIbmJVMManager -n truststoreFile -v <Trust Store File>

mqsichangeproperties <Broker> -e <EG> -o ComIbmJVMManager -n truststoreType -v JKS

mqsichangeproperties <Broker> -e <EG> -o ComIbmJVMManager -n truststorePass -v brokerTruststore::password

mqsireportproperties <Broker> -e <EG> -o HTTPSConnector -r

Switch between Broker Wide Listener and Embedded Listener

mqsichangeproperties MB8BROKER -e exgroup1 -o ExecutionGroup -n httpNodesUseEmbeddedListener -v false

mqsichangeproperties MB8BROKER -e exgroup1 -o ExecutionGroup -n soapNodesUseEmbeddedListener -v false

Report Properties

Broker Registry Parameters sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsireportproperties "<Broker> -o BrokerRegistry -r"

All Reportable Entities sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsireportproperties "<Broker> -e <Execution Group> -o AllReportableEntityNames -r"

HTTP Listener Properties At Broker Level sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsireportproperties "<Broker> -b httplistener -o AllReportableEntityNames -r"

HTTP Connector Properties At Execution Group Level sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsireportproperties "<Broker> -e <ExecutionGroup> -o HTTPConnector -r"

HTTPS Connector Properties At Execution Group Level sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsireportproperties "<Broker> -e <ExecutionGroup> -o HTTPSConnector -r"

JVM Properties sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsireportproperties "<Broker> -o ComIbmJVMManager -a -e <ExecutionGroup>"

​Security Profile Properties sudo -u mqbrkrs /clocal/cmmmgt/user/pscmmadm/mqsi/bin/mqsireportproperties "<Broker> -c SecurityProfiles -o <Security Profile Name> -r

OS Version

oslevel -s

CPU/Memory Related Commands

​lparstat lparstat -i prtconf lsconf nmon https://www.ibm.com/developerworks/community/blogs/aixpert/entry/aix\_memory\_usage\_or\_who\_is\_using\_the\_memory\_and\_how20?lang=en vmstat -Iwt 2 30 iostat -Dl vmstat -s

List details of all volume groups with lsvg on AIX

 lsvg | lsvg -li​ Operating System Logs Viewing the general system error log (AIX) errpt -a | more Find out Process Listening on a port > netstat -Aan | grep <port> First part of the result is socket id. Run following command with socket id > rmsock <socket id> tcpcb​

Maximum number of processes per user AIX

lsattr -El sys0

​Certificate Related Commands

List Certificates in Key Store​​

/global/site/vendor/mqsi/jre16/bin/keytool -list -v -keystore "<keystore file>" CA Certificate File Location /global/site/vendor/mqsi/jre16/lib/security/cacerts Generate Private Key and Key Store /global/site/vendor/mqsi/jre16/bin/keytool -genkey -alias <alias\_name> -keyalg RSA -keystore "/global/site/vendor/mqsi/jre16/lib/security/<Key Store Name>" -keysize 2048 Enter information prompted. What is your first and last name? [Unknown]: shi006labt04.shdc.chrysler.com What is the name of your organizational unit? [Unknown]: ITM What is the name of your organization? [Unknown]: Chrysler Group LLC What is the name of your City or Locality? [Unknown]: Auburn Hills What is the name of your State or Province? [Unknown]: MICHIGAN What is the two-letter country code for this unit? [Unknown]: US Is CN=shi006labt04.shdc.chrysler.com, OU=ITM, O=Chrysler Group LLC, L=Auburn Hills, ST=MICHIGAN, C=US correct? (type "yes" or "no") [no]: yes Generate CSR /global/site/vendor/mqsi/jre16/bin/keytool -certreq -alias <alias\_name> -keystore "/global/site/vendor/mqsi/jre16/lib/security/cacerts" -file cmmdev.csr Send /global/site/vendor/mqsi/jre16/lib/security/cmmdev.csr to cdroot\_pki@chrysler.com for generating the certs. Convert p12 format to pem format Key Store and Private key conversion from p12 to pem

/global/site/vendor/mqsi/jre16/bin/​keytool -v -importkeystore -srckeystore keystore.jks -srcalias client -destkeystoremyp12file.p12 -deststoretype PKCS12​ openssl pkcs12 -in <File\_Name>.p12 -out <File\_Name>.pem Import a Certificate in Key Store /global/site/vendor/mqsi/jre16/bin/keytool -import -alias cmm\_cvp\_ngtp\_proxy -file "/clocal/cmmmgt/user/pscmmadm/certs/VSB\_NRT.crt" -keystore "/global/site/vendor/mqsi/jre16/lib/security/cacerts" Delete a Certificate from Key Store /global/site/vendor/mqsi/jre16/bin/keytool -delete -alias cmm\_cvp\_ngtp\_proxy -keystore "/global/site/vendor/mqsi/jre16/lib/security/cacerts"

Catalog DB2 Servers on Desktop

CATALOG TCPIP NODE CVPPROD REMOTE shi006cvpp01.shdc.chrysler.com SERVER 25800 CATALOG DATABASE CVPPROD AS CVPPROD AT NODE CVPPROD; CATALOG TCPIP NODE CVPTEST REMOTE cli007cpsd01.cldc.chrysler.com SERVER 25600 CATALOG DATABASE CVPTEST AS CVPTEST AT NODE CVPTEST CATALOG TCPIP NODE CVPDEV REMOTE cli007cpsd01.cldc.chrysler.com SERVER 25590 CATALOG DATABASE CVPDEV AS CVPDEV AT NODE CVPDEV; CATALOG TCPIP NODE SHRPROD REMOTE srvr2280.dbms.chrysler.com SERVER 22800 CATALOG DATABASE ASHRPROD AS ASHRPROD AT NODE SHRPROD CATALOG TCPIP NODE CMMDEV REMOTE odi006cmmt01.oddc.chrysler.com SERVER 26480 CATALOG DATABASE CMMDEV AS CMMDEV AT NODE CMMDEV

Other Commands

Commands Used​ to request certificates for New test Environment Load balancer

/global/site/vendor/mqsi/jre16/bin/keytool -genkey -alias ws-00.cmmtest.intra.chrysler.com -keyalg RSA -keystore ws-00.cmmtest.intra.chrysler.com.jks -keysize 2048 /global/site/vendor/mqsi/jre16/bin/keytool -genkey -alias ws-01.cmmtest.intra.chrysler.com -keyalg RSA -keystore ws-01.cmmtest.intra.chrysler.com.jks -keysize 2048 /global/site/vendor/mqsi/jre16/bin/keytool -genkey -alias ws-02.cmmtest.intra.chrysler.com -keyalg RSA -keystore ws-02.cmmtest.intra.chrysler.com.jks -keysize 2048 /global/site/vendor/mqsi/jre16/bin/keytool -genkey -alias ws-03.cmmtest.intra.chrysler.com -keyalg RSA -keystore ws-03.cmmtest.intra.chrysler.com.jks -keysize 2048 /global/site/vendor/mqsi/jre16/bin/keytool -genkey -alias ws-04.cmmtest.intra.chrysler.com -keyalg RSA -keystore ws-04.cmmtest.intra.chrysler.com.jks -keysize 2048 /global/site/vendor/mqsi/jre16/bin/keytool -genkey -alias ws-05.cmmtest.intra.chrysler.com -keyalg RSA -keystore ws-05.cmmtest.intra.chrysler.com.jks -keysize 2048 /global/site/vendor/mqsi/jre16/bin/keytool -certreq -alias ws-00.cmmtest.intra.chrysler.com -keystore ws-00.cmmtest.intra.chrysler.com.jks -file ws-00.cmmtest.intra.chrysler.com.csr /global/site/vendor/mqsi/jre16/bin/keytool -certreq -alias ws-01.cmmtest.intra.chrysler.com -keystore ws-01.cmmtest.intra.chrysler.com.jks -file ws-01.cmmtest.intra.chrysler.com.csr /global/site/vendor/mqsi/jre16/bin/keytool -certreq -alias ws-02.cmmtest.intra.chrysler.com -keystore ws-02.cmmtest.intra.chrysler.com.jks -file ws-02.cmmtest.intra.chrysler.com.csr /global/site/vendor/mqsi/jre16/bin/keytool -certreq -alias ws-03.cmmtest.intra.chrysler.com -keystore ws-03.cmmtest.intra.chrysler.com.jks -file ws-03.cmmtest.intra.chrysler.com.csr /global/site/vendor/mqsi/jre16/bin/keytool -certreq -alias ws-04.cmmtest.intra.chrysler.com -keystore ws-04.cmmtest.intra.chrysler.com.jks -file ws-04.cmmtest.intra.chrysler.com.csr /global/site/vendor/mqsi/jre16/bin/keytool -certreq -alias ws-05.cmmtest.intra.chrysler.com -keystore ws-05.cmmtest.intra.chrysler.com.jks -file ws-05.cmmtest.intra.chrysler.com.csr /global/site/vendor/mqsi/jre16/bin/keytool -v -importkeystore -srckeystore ws-00.cmmtest.intra.chrysler.com.jks -srcalias ws-00.cmmtest.intra.chrysler.com -destkeystore ws-00.cmmtest.intra.chrysler.com.p12 -deststoretype PKCS12 /global/site/vendor/mqsi/jre16/bin/keytool -v -importkeystore -srckeystore ws-01.cmmtest.intra.chrysler.com.jks -srcalias ws-01.cmmtest.intra.chrysler.com -destkeystore ws-01.cmmtest.intra.chrysler.com.p12 -deststoretype PKCS12 /global/site/vendor/mqsi/jre16/bin/keytool -v -importkeystore -srckeystore ws-02.cmmtest.intra.chrysler.com.jks -srcalias ws-02.cmmtest.intra.chrysler.com -destkeystore ws-02.cmmtest.intra.chrysler.com.p12 -deststoretype PKCS12 /global/site/vendor/mqsi/jre16/bin/keytool -v -importkeystore -srckeystore ws-03.cmmtest.intra.chrysler.com.jks -srcalias ws-03.cmmtest.intra.chrysler.com -destkeystore ws-03.cmmtest.intra.chrysler.com.p12 -deststoretype PKCS12 /global/site/vendor/mqsi/jre16/bin/keytool -v -importkeystore -srckeystore ws-04.cmmtest.intra.chrysler.com.jks -srcalias ws-04.cmmtest.intra.chrysler.com -destkeystore ws-04.cmmtest.intra.chrysler.com.p12 -deststoretype PKCS12 /global/site/vendor/mqsi/jre16/bin/keytool -v -importkeystore -srckeystore ws-05.cmmtest.intra.chrysler.com.jks -srcalias ws-05.cmmtest.intra.chrysler.com -destkeystore ws-05.cmmtest.intra.chrysler.com.p12 -deststoretype PKCS12 openssl pkcs12 -in ws-00.cmmtest.intra.chrysler.com.p12 -out ws-00.cmmtest.intra.chrysler.com.pem openssl pkcs12 -in ws-01.cmmtest.intra.chrysler.com.p12 -out ws-01.cmmtest.intra.chrysler.com.pem openssl pkcs12 -in ws-02.cmmtest.intra.chrysler.com.p12 -out ws-02.cmmtest.intra.chrysler.com.pem openssl pkcs12 -in ws-03.cmmtest.intra.chrysler.com.p12 -out ws-03.cmmtest.intra.chrysler.com.pem openssl pkcs12 -in ws-04.cmmtest.intra.chrysler.com.p12 -out ws-04.cmmtest.intra.chrysler.com.pem openssl pkcs12 -in ws-05.cmmtest.intra.chrysler.com.p12 -out ws-05.cmmtest.intra.chrysler.com.pem