

Master Reference Document

(MRD)

Holds various artefacts information in the form of Matrix



Version : V1.0

**Document Control**

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# Introduction

This document is a master reference document that holds information of various artefacts represented in the form of a matrix. This is mainly used as a starting point for referring Mulesoft ESB related operations, configuration and setup activities. This document serves as an index for various information in Mulesoft Technology and its features.

This can also be enhanced and used as traceability matrix document.

# How to ?

### Start Active MQ?

At the command prompt / terminal, issue

|  |
| --- |
| cd /opt/messagebroker/apache-activemq-5.16.0  sudo sh activemq start  or  sudo ./activemq start |

### Stop Active MQ?

|  |
| --- |
| cd /opt/messagebroker/apache-activemq-5.16.0  sudo sh activemq stop  or  sudo ./activemq stop |

### Test Active MQ?

At the command prompt / terminal, issue

|  |
| --- |
| netstat -an | grep 61616 |

You should see

|  |
| --- |
| tcp6 0 0 :::61616 :::\* LISTEN |

### Login to DEV DB (MySQL)

Connect to Dev DB Server over 172.31.41.232 using any terminal tool (Like Putty or CMD)

|  |
| --- |
| $ mysql -u root -p  $ Enter password: << empty >>  mysql> use database esb\_schema;  Database changed  mysql> |

### Login to Stage / Test DB (MySQL)

|  |
| --- |
| $ mysql -u root -p  $ Enter password: << empty >>  mysql> |

### Login to Prod DB (MySQL)

|  |
| --- |
| mysql -u USERNAME -pPASSWORD -h HOSTNAMEORIP DATABASENAME |

### Check if ports are running

|  |
| --- |
| $ sudo lsof -i -P -n | grep LISTEN |

### Start Mule Soft Server

|  |
| --- |
| $ $MULE\_HOME/bin/mule start |

### Stop Mulesoft Server

|  |
| --- |
| $ $MULE\_HOME/bin/mule stop |

### Restart Mulesoft Server

|  |
| --- |
| $ $MULE\_HOME/bin/mule restart |

### Create ESB Metadata to support Audit tables

Create Database

|  |
| --- |
| mysql> create database esb\_schema; |

Grant Privileges

|  |
| --- |
| mysql> grant all privileges on esb\_schema.\* to root@10.10.29.243;  mysql> flush privileges; |

Create Audit Tables

|  |
| --- |
| mysql> CREATE TABLE `t\_audit\_log` (  `message\_id` varchar(250) NOT NULL,  `api\_reference` varchar(250) NOT NULL,  `log\_type` varchar(10) NOT NULL,  `record\_created\_time` datetime NOT NULL,  `corelation\_id` varchar(250) NOT NULL,  `log\_message` longtext NOT NULL,  `error\_message` longtext NOT NULL,  `flow\_name` varchar(100) DEFAULT NULL  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci  mysql> desc t\_audit\_log;  +---------------------+--------------+------+-----+---------+-------+  | Field | Type | Null | Key | Default | Extra |  +---------------------+--------------+------+-----+---------+-------+  | message\_id | varchar(250) | NO | | NULL | |  | api\_reference | varchar(250) | NO | | NULL | |  | log\_type | varchar(10) | NO | | NULL | |  | record\_created\_time | datetime | NO | | NULL | |  | corelation\_id | varchar(250) | NO | | NULL | |  | log\_message | longtext | NO | | NULL | |  | error\_message | longtext | NO | | NULL | |  | flow\_name | varchar(100) | YES | | NULL | |  +---------------------+--------------+------+-----+---------+-------+ |

# References

### GIT Repositories

* GIT Remote Server : 10.10.29.247
* Git Repository for Docs : git@10.10.29.247:reference.git
* Git Repository for Source : git@10.10.29.247:esb-fdbsrc.git
* Git Branch for Docs : master
* Git Branch for Source : master

\*\* We need to create branches to when sharing the source code with different users

### Resource Locations and Link(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resource Id | Name | Location / Link | Version | Remarks |
| D1 | MuleSoft Setup | git@10.10.29.247:reference.git | v1.0 | Contains details of Mulesoft setup at CeG |
| D2 | MuleSoft Exchange | git@10.10.29.247:reference.git | v1.0 | Contains information about MuleSofte exchange |
| D3 | MuleSoft RM | git@10.10.29.247:reference.git | v1.0 | Contains information about Runtime Manager |
| D4 | MuleSoft Product Support | git@10.10.29.247:reference.git | v1.0 | Contains information about product support from Mulesoft. Steps and Support portals are explained in detail |
| L1 | Anypoint Studio | https://docs.mulesoft.com/studio/latest/ | Latest | Points developer to extensive documentation on AnypointStudiio |
| L2 | Runtime Manager | https://docs.mulesoft.com/runtime-manager/ | Latest | Points developer to extensive information on MuleSoft runtime |
| L3 | API Manager | https://docs.mulesoft.com/api-manager/2.x/latest-overview-concept | Latest | Points developer to extensive API Documentation |
| L4 | Design Center | https://docs.mulesoft.com/design-center/ | Latest | Points developer to extensive Design Center related information |
| L5 | Exchange | https://docs.mulesoft.com/exchange/ | Latest | Points developer to MuleSoft exchange documentation |
| S1 | Dev Server | 10.10.29.243 | N/A | Runtime Instance on Dev Instance |
| S2 | Stage Server | 10.10.29.244 | N/A | Runtime instance on Stage / Test instance |
| S3 | Prod Server | 10.10.29.245 | N/A | Runtime instance on Prod Instance |
| S4 | Prod Server (Passive) | 10.10.29.246 | N/A | Runtime instance on Prod (passive) instance |
| S5 | DB Server 1 Dev | 172.31.41.231 | N/A | Dev Server |
| S6 | DB Server 2 Test | 172.31.41.232 | N/A | Stg Server |
| S7 | DB Server 1 Prod | 172.31.41.233 | N/A | Prod Server |
| S8 | DB Server 1 Prod | 172.31.41.234 | N/A | Prod Server |
| S9 | Utility Server | 10.10.29.247 | N/A | This is where at present most tools are installed. Ideally they should be seperated. |
| T1 | GIT Local | 10.10.29.247 |  | Git |
| T2 | Jenkins | 10.10.29.247 |  | Jenkin |
| T3 | Active MQ | 10.10.29.247 |  | ActiveMQ |
| U1 | Usecase 1 | On Dev (S1)  On Stage (S2)  On Prod (S3)  git@10.10.29.247:esb-fdbsrc.git | N/A | Straight Passthrough |
| U2 | Usecase 2 | On Dev (S1)  git@10.10.29.247:esb-fdbsrc.git | N/A | Filter and Render |
| U3 | Usecase 3 | On Dev (S1)  git@10.10.29.247:esb-fdbsrc.git | N/A | Fetch Merge and Enrich |
| U4 | Usecase 4 | On Dev (S1)  git@10.10.29.247:esb-fdbsrc.git | N/A | Notify over Pub-Sub |
| U5 | Usecase 5 | On Dev (S1)  git@10.10.29.247:esb-fdbsrc.git | N/A | Notify over email |