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# Introduction

This guide walks you through MDW upgrade. This is mainly written for apps on MDW 5.2. There are many variables on how the MDW upgrade can get impacted. Few things to consider are:

* 1. Which deployment Container: Fuse, PCF, ServiceMix, Tomcat
  2. DB: New vs Old
  3. In-flight orders
  4. Task Manager

# Prerequisites

* 1. Make sure you have Java Runtime 7 installed on your computer:
  + [**http://www.oracle.com/technetwork/java/javase/downloads**](http://www.oracle.com/technetwork/java/javase/downloads)
  1. Install Eclipse Mars (4.5.x). The easiest way to get Eclipse with all the necessary dependencies is to grab the prepackaged version from this shared location:
  + [**\\eldnp1515dm4.ad.qintra.com\union\_station\IT\MDW\eclipse**](file:///\\eldnp1515dm4.ad.qintra.com\union_station\IT\MDW\eclipse)
  1. Launch Eclipse. Here’s an example command line that includes appropriate JVM memory settings for running and debugging:
  + C:\eclipse\_4.5.2\eclipse.exe -vm C:\jdk1.7.0\_45\bin\javaw.exe -vmargs -Xms512m -Xmx1024m
  1. Install the latest version of the MDW Plug-In via Eclipse Software Updates (Help > Install New Software > Add > http://lxdenvmtc143.dev.qintra.com:6101/MdwPlugin > Install).
  2. Make sure Eclipse has a Java 7 or Java 8 Installed JRE available in your workspace (Window > Preferences > Java > Installed JREs).
  3. Follow one of the cook book to download Tomcat, Fuse or ServiceMix to your local environment. http://cshare.ad.qintra.com/sites/MDW/Developer%20Resources/Tutorials

# Steps

## Create a Local Cloud Project

Follow one of the cookbooks to create an empty MDW project

* + 1. <http://cshare.ad.qintra.com/sites/MDW/Developer%20Resources/Tutorials>

## DB

* + 1. We recommend that MDW 5.5 migration should happen with new MDW 5.5 DB schema, if you still plan to use old schema and upgrade in place then contact MDW team.
    2. You'll use the SQL scripts at the following URL to install the MDW db schema and reference data, and the initial user set is inserted via seed\_users.sql:

<http://cshare.ad.qintra.com/sites/MDW/Developer%20Resources/MDW%20Database/Base%20Scripts%20MDW%205.5%20Oracle/5.5%20Pure>

* + 1. Import users and workgroup from old db

## Java Code

* + 1. Copy over your java classes into this new project
    2. Remove any Java Compilation errors (Refer to documents in Sharepoint link in this section for help with this)
    3. Some of the documentation related to upgrade by various teams are located here:

<http://cshare.ad.qintra.com/sites/MDW/MDW%20Upgrades/Upgrading%20to%205.5>

## Config

* + 1. Edit the following properties in com.centurylink.mdw.cfg (Fuse) or config/mdw.properties (for Tomcat):
    2. mdw.asset.location - This is the directory path on your hard-drive where your assets are located.
    3. mdw.git.local.path - The root directory of your new Git project.
    4. mdw.hub.user - You may have noticed the Java system property runtimeEnv in your server config, which is preset to "dev". This property allows you to bypass authentication locally.
    5. Also update Server ip and port and db details.

## Assets and Git

* + 1. We recommend that you use Git repository for source code control
    2. Import base and hub packages in new environment
    3. Export your application specific packages from old production environment. Do NOT check the box for exporting implementers
    4. Prior to importing packages, check that your process names do NOT contain special characters such as / \ : \* ? “ < > |. If you do have to change any process names in your exported xml file, make sure you change ALL references to said processes (i.e. sub process invocation, etc)
    5. Import packages in new environment; check the box for upgrading implementers
    6. You will have to manually update any dynamic java code in the imported packages to MDW 5.5 code, like in **Config** step above
    7. If you application code references/invokes package assets such as dynamic java classes or Excel spreadsheets, please verify that the asset extension is present in your code. The package Import process will add extensions to any assets lacking them (i.e. .java, .xlsx, etc)

## Next Steps

* + 1. Browse through the online help docs, which are the same as those in Eclipse:

<http://lxdenvmtc143.dev.qintra.com:8989/mdw/doc/index.html>

* + 1. The MDW JavaDocs: <http://lxdenvmtc143.dev.qintra.com:8989/mdw/javadoc/index.html>
    2. Clone DSP environment <http://ne1itcprhas51.corp.intranet/dsp/dsp.git> with mdw.development/mdwdev123 credentials to see how a MDW 5.5 app look like.
    3. Search Support forum for upgrade related issues
    4. VCS asset persistence introduction <http://lxdenvmtc143.dev.qintra.com:8989/mdw/doc/assetPersistence.html>