# Installing CommandBox in the Alion environment. (George Murphy)

What is CommandBox? CommandBox is a standalone developer tool that provides a CLI (Command Line Interface) to launch almost any version of an embedded CFML server as a WAR file. It is perfect for the Alion style of development. Currently we are supporting a CFML legacy application that is running on ColdFusion 11. Our new ColdBox application will be running on ColdFusion 2016. Switching between these 2 versions is seamless with CommandBox. Here is the suggested way to get started in the Alion environment using CommandBox. In this document do a find and replace for gmurphy.ALIONSCIENCE with the folder name of your Alion user account. Please make sure you have removed all preinstalled CommandBox paths and box.exe files.

1. First make sure you have the latest JAVA JDK installed and running. This is accomplished by opening a DOS prompt and running this command.

C:\>java –version (the expected result below)

java version “1.8.0\\_141” Java(TM) SE Runtime Environment (build 1.8.0\\_141-b15)

Java HotSpot(TM) Client VM (build 25.141-b15, mixed mode)

If you get an undefined it means you do not have a JAVA JDK installed. Go here to install it.

http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

2. Prepare folders for where you will install the CommandBox Home and CommandBox Servers folders. Log into your local account with Administrator privileges.

3. Run these DOS commands. The first command will create **your CommandBox Home**.

C:\>mkdir Users\gmurphy.ALIONSCIENCE\

Next cd to this directory

C:\>cd Users\gmurphy.ALIONSCIENCE\cbhome

4. Copy the CommandBox box.exe file from our transfer directory

C:\Users\gmurphy.ALIONSCIENCE\cbhome>copy T:\AlionPMSESDev\commandbox-win380\box.exe C:\Users\gmurphy.ALIONSCIENCE\cbhome\box.exe

5. Make a property file for CommandBox. This will declare where your servers directory will be created at the cbhome directory. Run this DOS command.

C:\Users\gmurphy.ALIONSCIENCE\cbhome>start notepad commandbox.properties Notepad will open asking you if you want to create this file say yes. Paste this into your commandbox.properties file and save it. Commandbox\_home=C:/Users/gmurphy.ALIONSCIENCE/cbservers

6. Let’s create the cbservers directory. Run this DOS command. C:\Users\gmurphy.ALIONSCIENCE\cbhome>mkdir C:\Users\gmurphy.ALIONSCIENCE\cbservers

7. Next open Windows Explorer and navigate to C:\Users\gmurphy.ALIONSCIENCE\cbhome> then double click the box.exe file and follow the prompts.

8. Now let’s make sure the new box.exe is added the PATH environment variables. Click the Windows button lower left corner of your screen. Right click computer and select properties. In the dialog box under the left menu with the title Control Panel Home select the 4th menu text link from the top advanced system settings. This will open a system properties dialog box. The advanced tab should be selected. Click the button at the bottom called environment variables. Select Path at the bottom under system variables. Make sure to select this. That way it is available for all users. Then click edit and add the path ( ;C:\Users\gmurphy.ALIONSCIENCE\cbhome ) to the end of the string making sure to add a semi-colon to the end of the existing string.

9. Now let’s add our encryption policy files to the JDK. Let’s navigate to where the JDK was installed. C:\Program Files\Java\jdk1.8.0\\_77\jre\lib\security Let’s rename these files.

local\\_policy.jar to OLDlocal\\_policy.jar, US\\_export\\_policy.jar to OLDUS\\_export\\_policy.jar.

10. Let’s copy to new encryption files to this location. Run these 2 commands separately.

copy T:\AlionPMSESDev\security\local\\_policy.jar C:\Program Files\Java\jdk1.8.0\\_77\jre\lib\security\local\\_policy.jar

copy T:\AlionPMSESDev\security\US\\_export\\_policy.jar C:\Program Files\Java\jdk1.8.0\\_77\jre\lib\security\US\\_export\\_policy.jar

11. Let’s setup our website environment. Let’s run these commands in DOS.

mkdir C:\projects\pmses\\_cb2016 cd C:\projects\pmses\\_cb2016

mkdir pms-es

12. Go to folder C:\projects\pmses\\_cb2016\pms-es and right click on it in Windows Explorer Run Git Bash Here. Next run this Git Command in Git Bash.

git clone git@192.168.50.78:developers/pms-es.git .

MAKE SURE TO INCLUDE THE TRAILING PERIOD as you run this command in Git Bash at this path. /c/projects/pmses\\_cb2016/pms-es.

13. Next we will copy all of the web site files that are needed for pms-es to run. Open Git Bash and Run this command. mkdir /c/projects/pmses\\_cb2016/coldbox && cp -r /t/AlionPMSESDev/pmsesdependencies/coldbox/\\* /c/projects/pmses\\_cb2016/coldbox

Run this command. mkdir /c/projects/pmses\\_cb2016/extjs-latest && cp -r /t/AlionPMSESDev/pmsesdependencies/extjs-latest/\\* /c/projects/pmses\\_cb2016/extjs-latest

14. Open DOS cmd cd to C:\projects\pmses\\_cb2016 Run this command

start notepad startup16.boxr. Notepad will open asking you if you want to create this file say yes. Paste this into file. ( server start cfengine=adobe@2016.0.05+303689 name=pmses\\_cb2016 heapSize=4096 –force ) and save.