Lab-exercise: Introducing BlueData's Application Workbench.

Task 1

Run bdwb command to enter into Application Workbench shell

bdwb

Task 2

The workbench has inline help. Try the following

help

help catalog

help catalog new

Let's build a simple application.

Task 1 of 6

First you need to specify your organization. This is for easy identification of the application source. This also helps disambiguate same big data application built by different teams or corporations.

builder organization --name tutorial

Task 2 of 6

Define a new catalog (or application) entry

catalog new --distroid tutorial1 --name "First tutorial application" --desc "Application built using tutorial1"

Task 3 of 6

Define a role you want to assign to your containers.

role add node 1+

Task 4 of 6

You can autogenerate the application configuration scripts. As we are going to build a simple app with no services, we just need the following to autogenerate the necessary configuration code.

appconfig autogen --new

appconfig autogen --generate

appconfig package

Task 5 of 6

You now need to specify a docker image you want to use for this application. For our first application were are going to user BlueData's base image. Any docker image you build later on should always be based off of this base image. We have base images for CentOS/RHEL 6x/7x and Ubuntu 16.x

image pull --image-repotag docker.io/bluedata/centos7:4.0

image package --image-repotag docker.io/bluedata/centos7:4.0 --os centos7

Task 6 of 6

We are ready to package everything.

catalog save

catalog package

Congrats! Your first Application for BlueData EPIC platform is successfully created. You should see the last command display the location of the application bin (extension .bin) file.

Let's see what you built.

Task 1 of 3

Exit out of the workbench shell

exit

Task 2 of 3

The newly built application package (or bundle) is saved in the deliverables directory.

cd deliverables

ls

Task 3 of 3

Inspect the bundle generated

./bdcatalog-centos7-tutorial-tutorial1-1.0.bin --meta

./bdcatalog-centos7-tutorial-tutorial1-1.0.bin --help