

## How to hookup monitoring gents from AppDynamics/NewRelic with BWCE applications running on Docker?

Products	Versions
TIBCO BusinessWorks Container Edition	2.2.1

### Summary

The requirement is to use monitoring agents from third party providers like AppDynamics/NewRelic to monitor BWCE applications after they have been deployed into Docker containers.

### Environment

Docker

### Details

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Please follow the steps below to create a BWCE Base Docker Image with monitoring agents included and how to hookup a BWCE application to the monitoring agent.

#### Resolution

## Pre-Requisites:

1. You must have downloaded and installed TIBCO BusinessWorks Container Edition DesignTime on your local machine.
2. You must have installed Docker on your local machine.
3. You must have downloaded the TIBCO BusinessWorks™ Container Edition Docker Runtime (**bwce\_cf.zip**) from TIBCO's eDelivery site and placed it at **<TIBCO\_HOME>/bwce/2.2/docker/resources/bwce-runtime** directory on your local machine.
4. You must have downloaded the monitoring agent zip file (i.e. AppServerAgent-4.2.14.0.zip for AppDynamics or newrelic-java-3.30.1.zip for NewRelic) to your local machine.

## Steps:



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1. Copy the Monitoring Agent zip file to **<TIBCO\_HOME>/bwce/2.2/docker/resources/addons/monitor-agents** directory of your local machine. Use just one of the provider zips.

PS: If you have several applications using AppDynamics and several other applications using NewRelic, please create two separate BWCE Docker Base Images to be used with specific group of applications.

2. Open a command terminal at **<TIBCO\_HOME>/bwce/2.2/docker** directory and execute the following command:

**docker build -t TAG-NAME .**

i.e.

**docker build -t tibco/bwce:monitoragent .**

A successful execution of the above command will build a new BWCE Base Docker Image with tag **tibco/bwce:monitoragent**.

3. Now create an ear file of for the BW application you want to monitor. Create a file called Dockerfile in the same directory as the ear file as follows:

```
FROM tibco/bwce:monitoragent
MAINTAINER Tibco
ADD Sample.application_1.0.0.ear /
EXPOSE <PORT>
:
:
EXPOSE <PORT>
# AppDynamics Specific Configuration
ENV BW_JAVA_OPTS="-javaagent:/tmp/agent/javaagent.jar -
Dappdynamics.controller.hostName=<appdynamics controller host name> -
Dappdynamics.controller.port=<appdynamics controller port> -
Dappdynamics.agent.applicationName=<AppDynamics Agent App Name> -
Dappdynamics.agent.tierName=<AppDynamics Agent Tier Name> -
Dappdynamics.agent.nodeName=<AppDynamics Agent Node Name> -
Dappdynamics.agent.accountAccessKey=<AppDynamics AccessKey> -
Dappdynamics.controller.ssl.enabled=true -Dappdynamics.agent.reuse.nodeName=true -
Dappdynamics.agent.reuse.nodeName.prefix=<AppDynamics Agent ReUse Nodename
Prefix> -Dsun.net.inetaddr.ttl=300"
# NewRelic Specific Configuration
ENV BW_JAVA_OPTS="-javaagent:/tmp/agent/newrelic/newrelic.jar -
Dnewrelic.config.license_key=<NewRelic License Key> -Dnewrelic.config.proxy_host=
<NewRelic Proxy Host IP> -Dnewrelic.config.proxy_port=<NewRelic Proxy Port>
```

PS: Use just one of the monitoring agent for a specific BWCE Base Docker Image and comment out the other. Remember to supply appropriate <values> to all parameters enclosed within <> in the Dockerfile.

4. Now build the application image from the appdynamics base image using the command from the same location that contains the ear file and the Dockerfile:

**docker build -t tibco/bwce:SampleApp**

5. Run the application container using the command:

**docker run -i tibco/bwce:SampleApp**

If everything has been configured properly, the application should start up fine.

## Reference

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### Article ID

000030645

### Published

2017/03/10 01:48

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