**Introducing IBM Digital Experience V9 Kubernetes Cluster build scripts**

This release further extends the capabilities of the Docker build scripts by providing build scripts to create and manage an IBM Cloud Kubernetes cluster for WebSphere Portal Server 9.0.

The Kubernetes cluster provides a solution for deploying, maintaining, and scaling applications. The basis for the Kubernetes cluster node is created as a WebSphere Portal Docker image using the procedure defined in the Docker build scripts located here:

<https://github.com/digexp/ci.docker.websphere-portal>

This image can be used as a standalone WebSphere Portal Server 9.0 or extended to a Kubernetes compatible image using the Dockerfile located here:

<https://github.ibm.com/fridrich/DX_Bluemix_Kubes>

Details are provided in the repository README.md

The required steps to setup the Kubernetes cluster are as follows:

1. Create the WebSphere Portal V9.0 Docker image using the ci.docker.websphere-portal repository scripts
2. Optionally extend the WebSphere Portal V9.0 image to CF14, using the instructions posted with the IBM-WP-WCM-COMBINED-CF14 entry
3. Extend the image to be Kubernetes compatible using the Dockerfile from the DX\_Bluemix\_Kubes repository
4. Create a Kubernetes cluster in the IBM Cloud UI
5. Install the required CLI’s on your local server . The CLI’s provide the interface to run commands on your local server that manage the Kubernetes cluster:

* IBM Cloud CLI
* IBM Cloud Container Service plug-in
* Kubernetes CLI
* IBM Cloud Container Registry plug-in
* Docker CLI

1. Upload the Docker image to the Kubernetes cluster on IBM Cloud using CLI commands

A useful reference containing more details on creating the Kubernetes cluster can be found here:

<https://console.bluemix.net/docs/containers/cs_tutorials.html#cs_tutorials>

A useful reference containing more details on deploying apps into the Kubernetes cluster:

<https://console.bluemix.net/docs/containers/cs_tutorials_apps.html#cs_apps_tutorial>

<https://console.bluemix.net/docs/containers/cs_apps.html#cs_apps_ui>