Quick2Cloud for Cloud Systems

Built on IBM Cloud

CLOUD F🌐UNDRY

Quick2Cloud College - Course 100

Craft an Application for the IBM Cloud

Welcome to college, let□s try and pick up the pace a little, you are going to deploy your first web application into the IBM Cloud! For the purpose here in college you will be deploying a *Quick2Cloud Web Server Sample Application* to get an idea how the whole deploy thing is done. This will be a local deploy into the Cloud, meaning, it will use as its code source a desktop directory where *Quick2Cloud* will compose an application for your selected runtime.

Tip: Before you start. Create a Web Browser Shortcut to quick2cloud.org so you can enter *Quick2Cloud* quickly from the Desktop
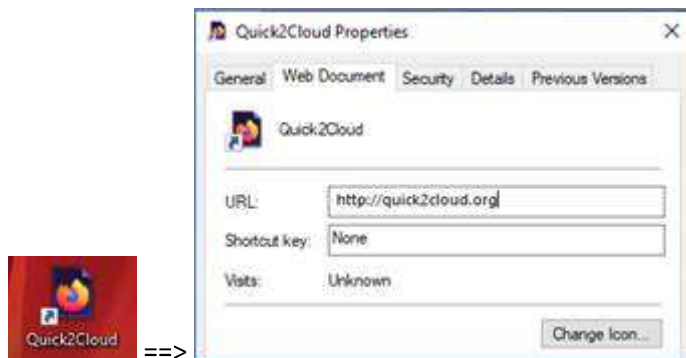
Later, you will have the choice to deploy this sample application from a local repository, a remote repository located at Github.com or a remote repository located in the IBM Cloud itself. You may choose to just maintain your code locally on the desktop, specifically if you are the sole developer whose actions will not get in the way of other developers work. If you choose to house your code locally, you will be coding and potentially testing it on the desktop then pushing it up to the IBM Cloud to run for the entire world to see.

Tip: *Quick2Cloud* College uses color to help highlight key concepts of what is being discussed. **Bold** or purple are items that need to stand out where green are for everything repository related such as the name of a repository command.

The required use of a repository comes into play when you want to develop and test in the Cloud or are working with a team of developers where a repositories source code management strategy stops everyone from getting in the way of each other providing a way to rewind back to a previous release if somehow they do. Also, using a repository makes you more marketable since most large companies have adopted the use of repositories for some time. It is a good idea to at least practice using a repository, just for your professional growth if for nothing else, and that will be learned when **Course 103** is taken.

But, for now, we march forward in this course with the source code residing on the desktop in an application directory.

Let us begin

With *Quick2Cloud□s* assistance, you will create a local directory that will hold the *Quick2Cloud□s* generated sample application and once *Quick2Cloud* comingles it with the necessary Cloud support files, it will almost be ready to be pushed up into the IBM Cloud.

Diagram of what you are about to accomplish:
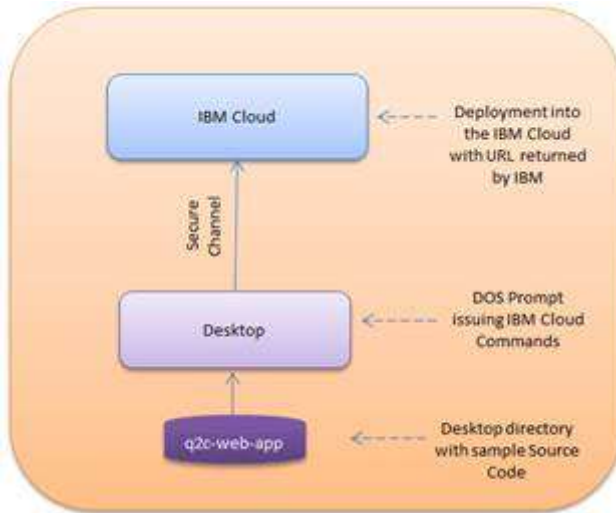
In this Course, your local source code directory will be called q2c-web-app and it will be the target of all *Quick2Cloud* assist operations. Keep this directory name just as stated but you can put it anywhere you want. You may want to put it somewhere easy to get to, such as the Root, since it will be referenced a lot during your college days. Primarily, q2c-web-app will be the target of downloaded files that *Quick2Cloud* will be generating for you and ultimately will contain a working sample application.

While at college, you will be following **Steps**, performing each one in order, with an explanation of what that step is accomplishing. When questions are asked by the *Quick2Cloud* user interface that requires you to enter in something into an input field, press the gray button that is in close proximity so that information can be transferred to the *Quick2Cloud* Server.

It is <u>very important</u> not to skip answering any of the questions or pushing of the associated buttons before moving on or your application deployment may fail. Your choices will be remembered and show up in the fields as long as you don□t close your browser. If you do close the browser, just enter them in again.

We always start at **Step 0** in our college courses, why not, you are all developers and indexing from zero should feel normal by now.

In assisting you, it is the intention for *Quick2Cloud* to support various Cloud programming runtimes and languages and depending on which one you pick will depend on how this course provides information. For example, you are using Node.js in this course but after graduation you will be free to pick others such as Python and you may find you will be asked a different set of questions to make that application deploy in the IBM Cloud. Then again, you may select a container like Docker and that will cause yet another set of questions and assists. To not overwhelm you at this time we will begin with your SDK for Node.js runtime for **Course 100**.

Enter your IBM ibmID that you created when signing up for IBM Cloud. The format is ibmID@email.com

| ibmID@email.com | Set UserID |

Step 0

Create a q2c-web-app directory on your local desktop. You can use the Browse button below to have *Quick2Cloud* assist you or create it using another method. The directory can exist as part of the Root directory or reside as a sub-directory somewhere else but **it does need to be empty** after it is created.

Put it in a place easy to get to, we will be visiting it a lot. When it is created it should look something like what is shown below. Empty!

Choose File | No file chosen

In windows here is a diagram of a valid initial q2c-web-app empty directory:

Continue

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