

Chapter Zero To Blockchain: Where's my Code?

Learning Bluemix & Blockchain

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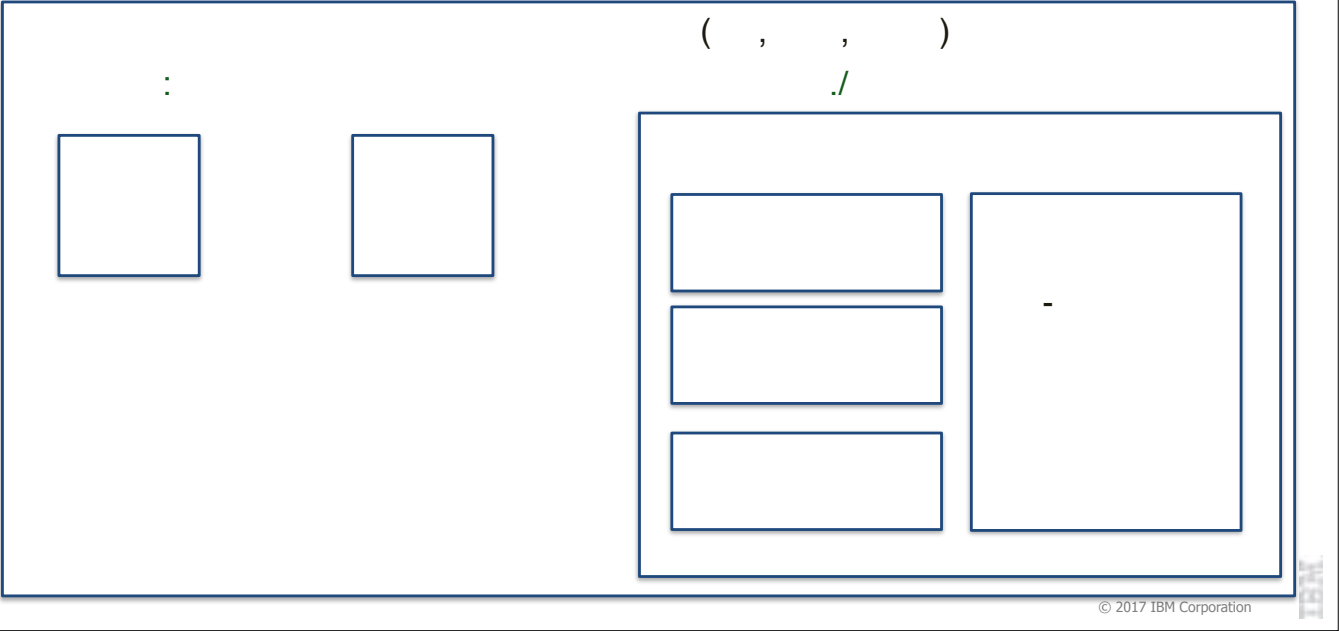




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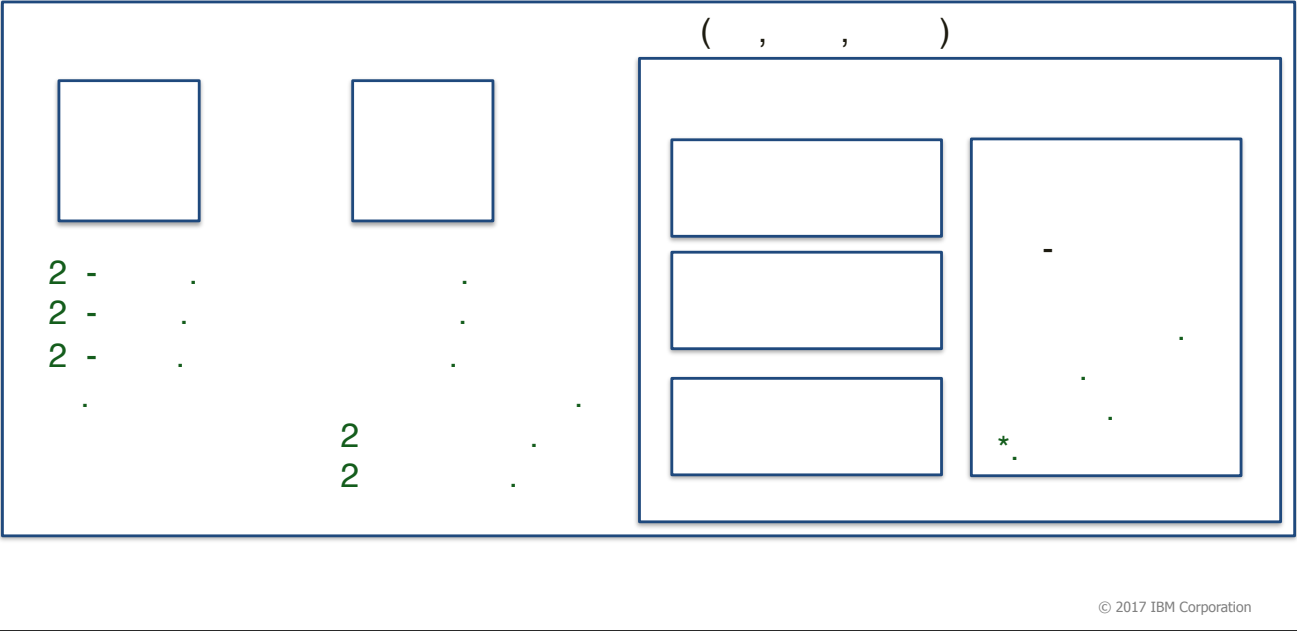
What activates my code (Chapters 1-12)?



You activate the code for these different services by executing different commands:

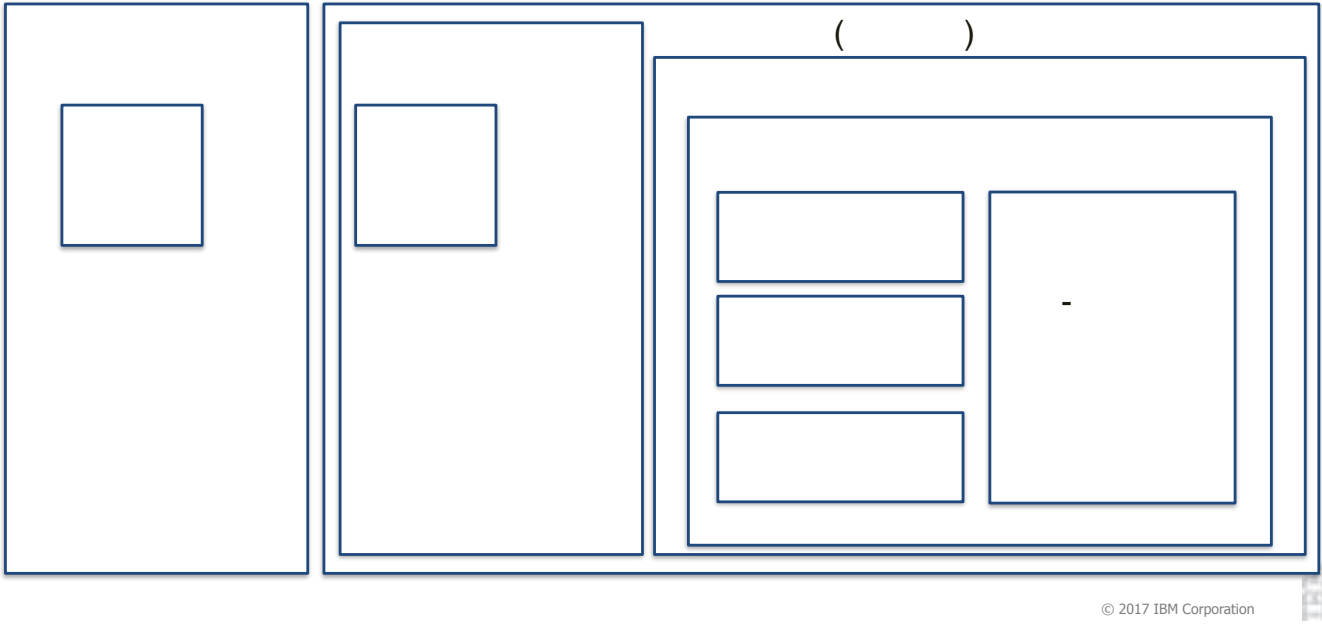
- (1) ./BuildAndDeploy creates the business network from the information in the network folder in your current chapter. Once created, it then clears out the docker containers and reloads them with a new instance of hyper ledger fabric and your business network.
- (2) npm install reads the package.json file and loads all of the nodejs modules necessary to support your application. npm start starts your nodejs application. When startup is complete, your terminal window will tell you what port the application is using (for example, 6002)
- (3) After the application starts. You connect to the application by typing localhost:6002 (or whatever number is provided in the terminal window) and pressing enter

Where is my Code (Chapters 1-12)?



This shows representative examples of what code is running on each of the parts of your system.

Elements of the running application: Chapter 13

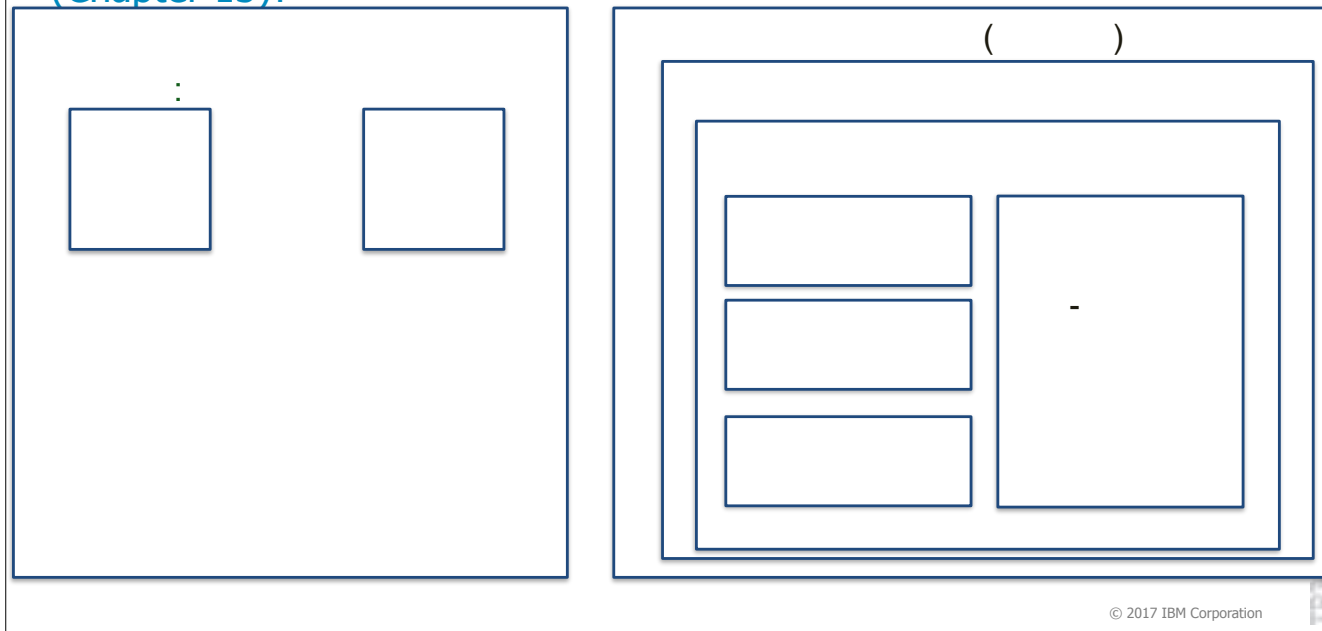


When chapter 13 is fully deployed, your browser is still loaded from your local machine and the rest of the application is running in IBM Cloud.

(1)The nodejs application runs as a cloud foundry based application. This is the URL you use in your browser.

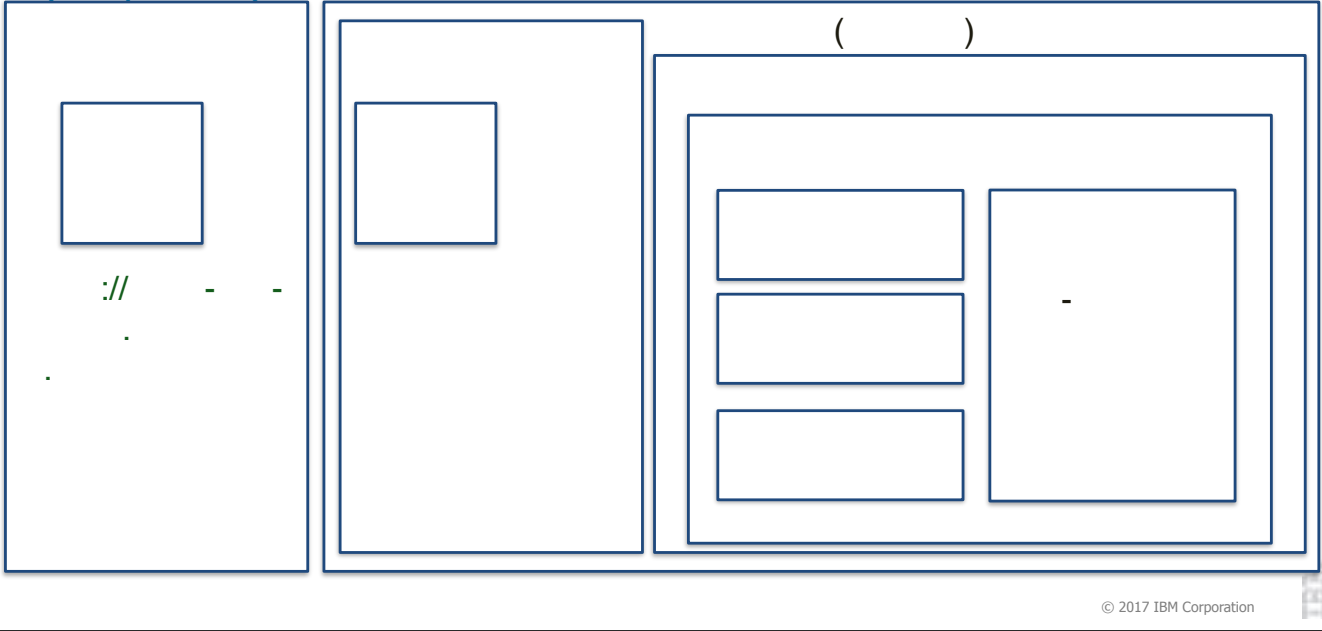
(2)The hyper ledger fabric code is deployed to an IBM Cluster and managed using the kubernetes service

What activates my code if I run the nodejs app on my local workstation
(Chapter 13)?



If you choose to run the nodejs application locally in chapter 13 (great idea if you're testing) then you would continue to use the npm install and npm start commands.
Your business network is loaded to the IBM Cluster using the ./kubernetes-deploy.sh script

What activates my code if I run the nodejs application in the IBM Cloud (Chapter 13)?



When you choose to deploy your nodejs code to the IBM Cloud, you'll use `bx cf push` (after logging in, of course). This will send your code to Cloud Foundry in IBM Cloud, install and then start your application using the `npm start` command. The app name is defined in your `manifest.yml` file and must be globally unique. The `cf push` will fail if the name is invalid or not unique.

Logging: console.log

