OpenShift test

* **Q1**
  + Deploy <https://github.com/sclorg/nodejs-ex> on openshift in q1 namespace/project
    - The commands are as follows
      * Oc login -u developer -p redhat
      * Oc new-project ques1
      * Oc new-app --name q1 <https://github.com/sclorg/nodejs-ex>
* **Q2**
  + In q2 namespace, create imagestream for nodejs and deploy <https://github.com/sclorg/nodejs-ex>
    - The commands are as follows
      * Oc login -u developer -p redhat
      * Oc new-project ques2
      * Oc import-image --name nodejs --confirm --from <https://server.lab.example.com/nodejs> --insecure
      * Oc get is
        + **Above command will give u the image stream that was just created**
* Q3
  + Create a pod and configmap (of some file), use configmap as a volume
    - Oc login -u developer -p redhat
    - Oc new-project quotes
    - Let’s say that there is a **yaml** file naming **quotes-applicaton.yaml,** we will create a pod with that yaml file
      * We will add the yaml file into the project first
        + Oc create -f quotes-app.yaml
      * We will create an app based on that
        + Oc new-app --file quotes-app.yaml
    - Oc get pods
      * Above command will list the pods
    - **Create a config map**
      * Oc create configmap config-quotes --from-file /path/to/file
    - **Inject the configmap as a volume**
      * Oc set volume dc/quotes-app --add --t configmap -m /path/to/mount --name myvol --configmap-name config.quotes
* Q4
  + **Create a pod and secret (username and password), inject those secrets as env in your pod**
    - **Creating a pod**
      * Oc login -u developer -p redhat
      * Oc new-project q4
      * Oc new-app --name pod-secret <https://github.com/somerepo>
      * Oc get pods
        + Above command will list the pods

Assume podname to be **pod-secret-xyz123**

* + - * Oc export svc pod-secret --hostname=podsecret.example.com
    - **Creatng a secret**
      * Oc create generic secret secret-q4 --from-file /path/to/file.txt
    - **Setting the pod as env**
      * Oc set env bc/pod-secret --from secret/secretq4
* Q5
  + **Create a deployment which has init container, init container should create some file and which should be available in main pod. (logic of your choice)**
    - Never heard of what init container while doing Do288 (or maybe have missed it)
* Q6,Q7
  + Cannot recall sorry :/
* Q8
  + **Find template named cakephp-mysql-persistent and deploy it and export the yamls**
    - Oc login -u developer -p redhat
    - Oc new-project q8
    - Oc get template -n openshift | grep cake-php-mysql-persistent
    - Oc export cake-php-mysql-persistent -o cake.yaml **(not sure about this command)**
    - Oc new-app --name cakephp-template --from-file=cake.yaml
* Q9
  + Never did/heard/tried any ques like this sorry :/

**Theory Question**

* Pods and Deployment
  + Pod->smallest unit resource in openshft.When we run an app,it’ll will run n one of the pods.
  + Deployment->Contains the specification of pod like secrets,configmaps.Because we inject these in build config.
* Working of buildConfig and s2i
  + BuildConfig -> When we create an app then according to the build scripts defined,it’ll build the app according to that.
  + S2i
    - S2i will take your code and will add the appropiate parent images as defined in the file.
    - Then it will create a builder image out of it which can be used with any app.
* What is imagestream?
  + From a practical purpose
    - First we import the image in a project using the **oc import-image command** then an image stream will be created.
      * That image stream can be imported to any other app using **-i** flag.