Exercise 2.6: Domain Review

Very Important

The source pages and content in this review could change at any time. **IT IS YOUR RESPONSIBILITY TO CHECK THE CURRENT INFORMATION**.

1. Using a browser go to https://www.cncf.io/certification/ckad/ and read through the program description.
2. In the **Exam Resources** section open the Curriculum Overview and Candidate-handbook in new tabs. Both of these should be read and understood prior to sitting for the exam.
3. Navigate to the Curriculum Overview tab. You should see links for domain information for various versions of the exam. Select the latest version, such as **CKAD_Curriculum_V1.15.0.pdf**. The versions you see may be different. You should see a new page showing a PDF.
4. Read through the document. Be aware that the term `Understand`, such as `Understand Services`, is more than just knowing they exist. In this case expect it to also mean create, update, and troubleshoot.
5. Locate the **Core Concepts** section. If you review the lab, you will see we have covered these steps. Again, please note this document will change, distinct from this book. **It remains your responsibility to check for changes in the online document**. They may change on an irregular and unannounced basis.

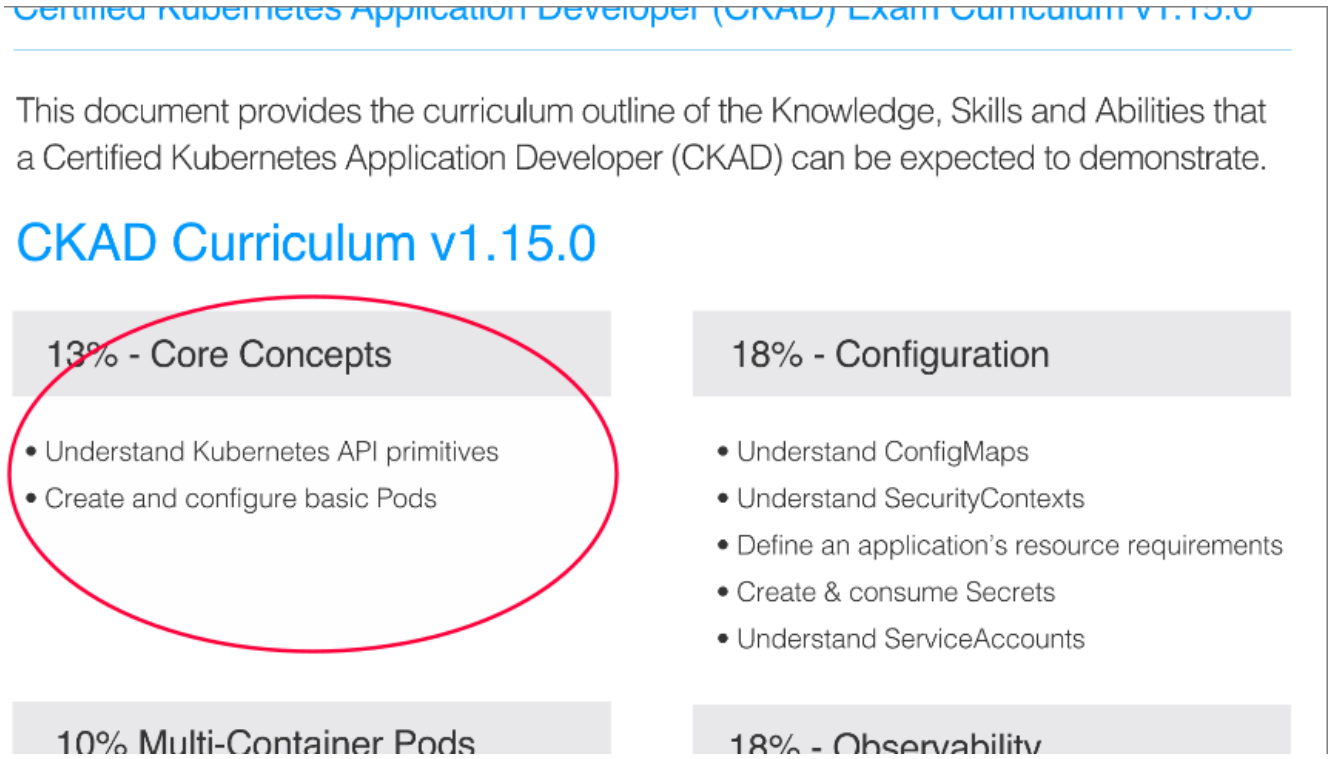

Figure 2.9: **Core Concepts Domain**

6. Navigate to the Candidate-handbook tab. You are strongly encourage to read and understand this entire document prior to taking the exam. Again, please note this document will change, distinct from this book. **It remains your responsibility to check for changes in the online document**. They may change on an irregular and unannounced basis.

7. Find the **Guidelines and Tips for Use of the Linux server terminal"** section in the document.

8. Among other points you will note the current exam version and three (at the time this was written) domains and subdomains you can use, with some stated conditions.

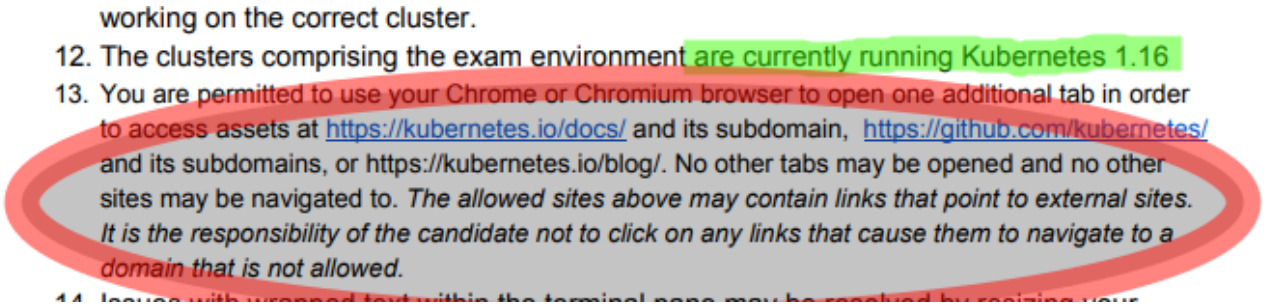
working on the correct cluster.
12. The clusters comprising the exam environment are currently running Kubernetes 1.16
13. You are permitted to use your Chrome or Chromium browser to open one additional tab in order to access assets at https://kubernetes.io/docs/ and its subdomain, https://github.com/kubernetes/ and its subdomains, or https://kubernetes.io/blog/. No other tabs may be opened and no other sites may be navigated to. *The allowed sites above may contain links that point to external sites. It is the responsibility of the candidate not to click on any links that cause them to navigate to a domain that is not allowed.*

Figure 2.10: **Exam Handbook Guidelines and Tips**

9. Using only the allowed browser, URLs, and subdomains search for and bookmark a YAML example to create and configure a basic pod. Ensure it works for the version of the exam you are taking. URLs may change, plan on checking each book mark prior to taking the exam.

10. Using a timer and bookmarked YAML files see how long it takes you to create and verify. Try it again and see how much faster you can complete and test each step:

    - A new pod with the **nginx** image. Showing all containers running and a `Ready` status.
    - A new service exposing the pod as a **nodePort**, which presents a working webserver configured in the previous step.
    - Update the pod to run the **nginx:1.11-alpine** image and re-verify you can view the webserver via a nodePort.

11. Find and use the `architecture-review1.yaml` file included in the course tarball. Your path, such as course number, may be different than the one in the example below. Use the **find** output. Determine if the pod is running. Fix any errors you may encounter. The use of **kubectl describe** may be helpful.

```
student@ckad-1:~$ find $HOME -name architecture-review1.yaml
1 /home/student/LFD259/SOLUTIONS/s_02/architecture-review1.yaml

student@ckad-1:~$ cp <copy-paste-from-above>  .

student@ckad-1:~$ kubectl create -f architecture-review1.yaml
```

12. Remove any pods or services you may have created as part of the review before moving on to the next section. For example:

```
student@ckad-1:~$ kubectl delete -f architecture-review1.yaml
```