



Journey & Tips Passing CKA certification

Jakarta Kubernetes meetup, 11 May 2019 at DeepSpace Jakarta
@Husni Alhamdani





Husni Alhamdani

DevOps Engineer at ECnet

21ys old

Certifications:

- Certified Openstack Administrator (COA)
- Certified Kubernetes Administrator (CKA)

CKA :



Certificate ID Number
CKA-1900-001848-0100

Agenda

CKA ?

Journey

Exam Environment

Tips

Learn Resources

Practice Lab

CKA ?



Certified Kubernetes Administrator (CKA)

LinuxFoundation Program, provide assurance that ...

CKAs have the **skills, knowledge, and competency** to perform the responsibilities of **Kubernetes administrators**.

CKA Curriculum:

- Application Lifecycle Management – 8%
- Installation, Configuration & Validation – 12%
- Core Concepts – 19%
- Networking – 11%
- Scheduling – 5%
- Security – 12%
- Cluster Maintenance – 11%
- Logging / Monitoring – 5%
- Storage – 7%
- Troubleshooting – 10%

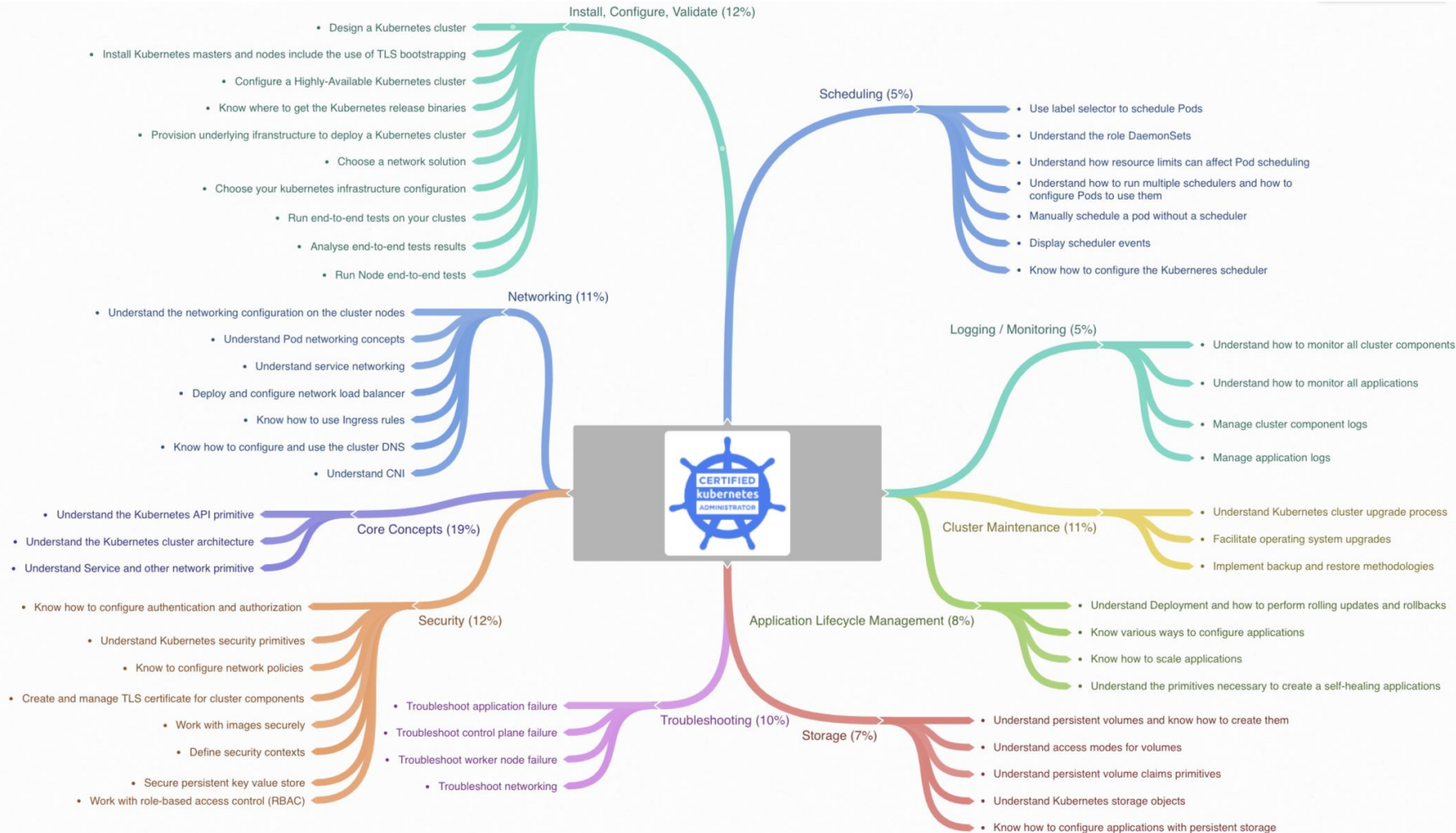
More details:

<https://github.com/cncf/curriculum>

Mind Map:

<https://s.id/hudani-road-to-cka>





Journey ...

Register exam : Dec 1, 2018

Schedule exam #1 : Jan 5, 2019

Reschedule exam #2 : March 27, 2019

Reschedule exam #3 : April 17, 2019

Exam: April 17, 2019

Result: April 21, 2019



The Cloud Native Computing Foundation hereby certifies that

Husni Alhamdani

has successfully completed the program
requirements to be recognized as a

Certified Kubernetes Administrator

A handwritten signature in black ink, appearing to read 'Dan Kohn'.

DAN KOHN, EXECUTIVE DIRECTOR
CLOUD NATIVE COMPUTING FOUNDATION

April 21, 2019

DATE OF COMPLETION

CKA-1900-001848-0100

CERTIFICATE ID NUMBER

Exam Environment (1)

Exam Type : Performance based (FULL LAB)
monitored by proctors via **webcam, audio, and remote screen viewing.**

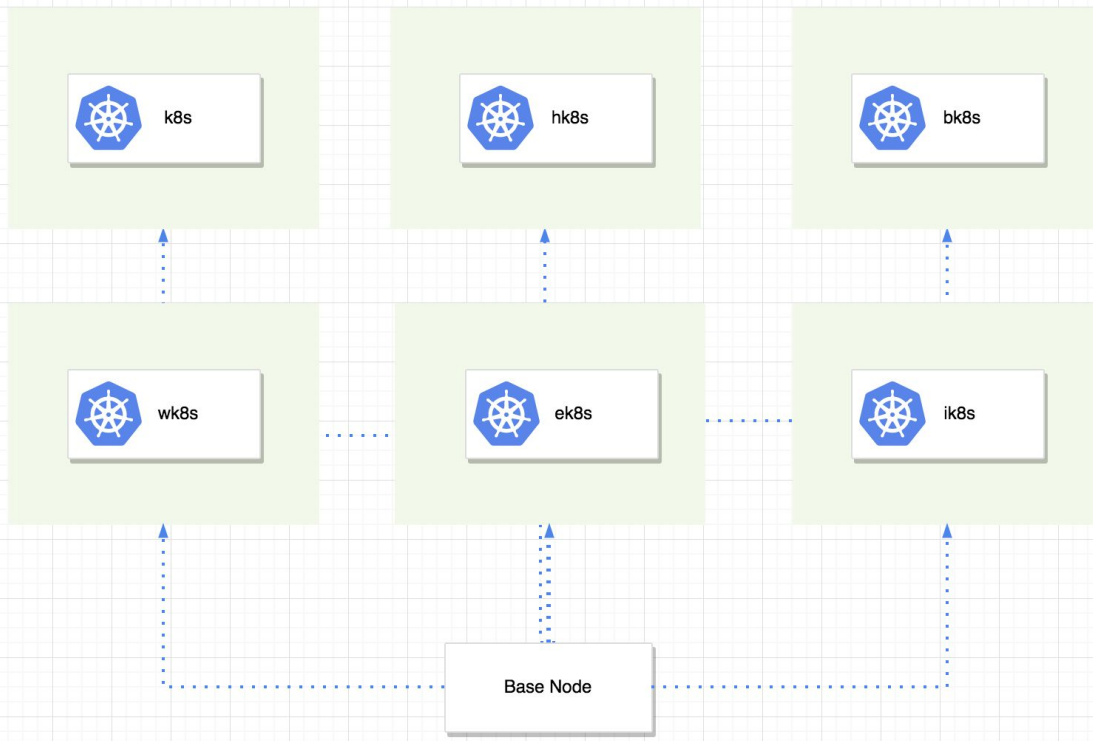
Duration: **3 Hours**

Questions: **24**

Clusters:

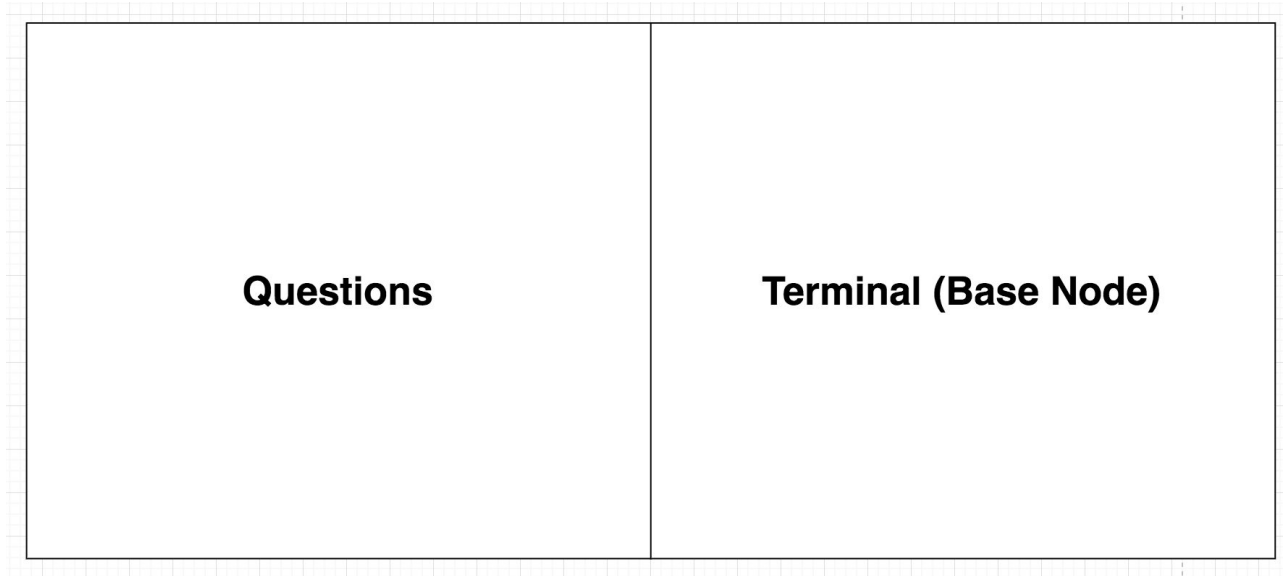
6 cluster k8s for CKA
3 cluster k8s for CKAD

CKA Clusters



Exam Environment (2)

Left side : Question
Right side : Terminal



Tips #1

Learn all things in CKA curriculum:

Learn all things in the CKA curriculum blueprint

<https://github.com/cncf/curriculum>

Complete all sections in Concept

<https://kubernetes.io/docs/concepts/>

Complete all sections in Tasks

<https://kubernetes.io/docs/tasks/>

Tips #2

Generate Manifest :

```
$ kubectl run pod1 --image=busybox --restart=Never --dry-run -o yaml > pod1.yaml
```

```
$ kubectl run deployment --image=nginx --dry-run -o yaml > deployment1.yaml
```

```
$ kubectl create secret generic my-secret --from-literal=foo=bar -o yaml --dry-run > my-secret.yaml
```

```
$ cp pod1.yaml pod2.yaml
```

```
$ cp deployment1.yaml deployment2.yaml
```

```
$ cp manifest-x.yaml manifest-y.yaml
```

Tips #3

Make an Alias

alias kgp="kubectl get pods"

alias kgd="kubectl get deployments"

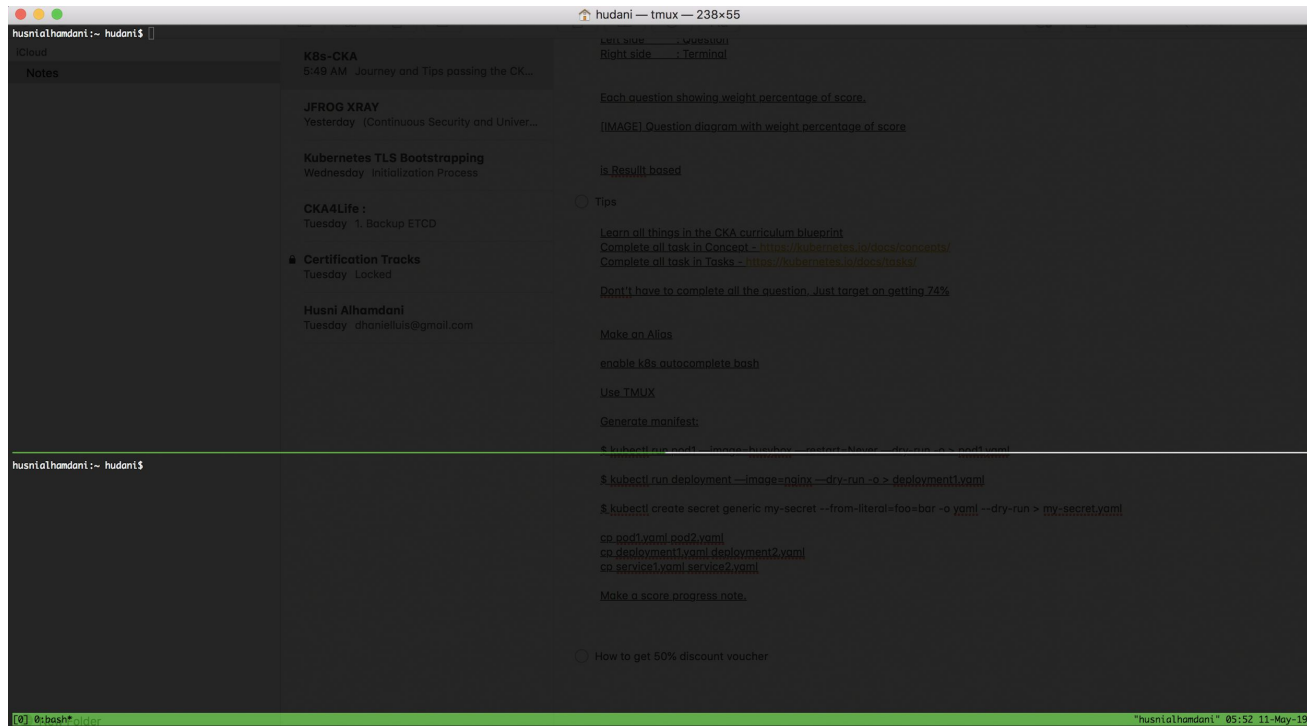
alias kgs="kubectl get services"

Enable k8s autocomplete bash

source <(kubectl completion bash)

Tips #4

Use TMUX:



Tips #5

Pay attention to the question context

Questions 1 :

Use context “ik8s” to complete this question



Questions 2 :

Use context “wk8s” to complete this question



Questions N :

Use context “some-context” to complete this question



Tips #6

Each question showing weight percentage of score.

Questions 1 :

3%



Questions 2 :

5%



Questions N :

x%



Tips #7

Make a score progress note

1. 3%

2. 5%

3. 7%

.

.

.

24. 8%

Don't have to complete all the questions, just target on getting above

74%

Learn Resources #1

Mind Map link CKA blueprint:

<https://cka-exam.blog/>

<https://github.com/walidshaari/Kubernetes-Certified-Administrator>

Katacoda:

<https://www.katacoda.com/courses/kubernetes>

Kubernetes Learning Resources (Kubernauts):

<https://goo.gl/RywkpD>

Learn Resources #2

Join @kubernauts community

<https://kubernauts-slack-join.herokuapp.com/>

Kuberentes the hard way:

<https://github.com/kelseyhightower/kubernetes-the-hard-way>

Kubernetes Doc (Concept, Task)

<https://kubernetes.io/docs/tasks/>

Practice Lab

labs.play-with-k8s.com :

The screenshot displays the labs.play-with-k8s.com web interface. The browser's address bar shows the URL: https://labs.play-with-k8s.com/p/bjav8hqv6bk000equ660#bjav8hqv_bjav8r2v6bk000equ67g. The interface is divided into a left sidebar and a main content area.

Left Sidebar:

- A digital clock displays **03:59:12**.
- An orange button labeled **CLOSE SESSION** is present.
- A section titled **Instances** with a gear icon for settings.
- A link to **+ ADD NEW INSTANCE**.
- A list of instances:
 - 192.168.0.13 node1
 - 192.168.0.12 node2
 - 192.168.0.11 node3 (highlighted)

Main Content Area:

- The session title is **bjav8hqv_bjav8r2v6bk000equ67g**.
- Metadata for the selected instance (192.168.0.11):
 - IP:** 192.168.0.11
 - Memory:** 1.26% (50.29MiB / 3.906GiB)
 - CPU:** 9.74%
 - URL:** ip172-18-0-4-bjav8hqv6bk000equ660.direct.labs.play-with-k8s.com
- An orange **DELETE** button is located below the metadata.
- A terminal window at the bottom shows the prompt **[node3 ~]\$** on a black background.

Thank you!

<https://t.me/husnialhamdani>

Husni Alhamdani from ECnet

