



# Certified Kubernetes Application Developer (CKAD) Certification BootCamp

Duration: 2 Day

## DESCRIPTION

This course aims to help participants prepare for Certified Kubernetes Application Developer examination by the Cloud Native Computing Foundation (CNCF). Hence the outline is derived out of the CKAD curriculum published by CNCF and the entire course is based on Kubernetes clusters built using Kubeadm and by using Kubernetes version 1.13

Kubernetes Essentials course is a mandatory pre-requisite to take up prior to taking this course, as many of the essential topics of CKAD are covered as part of Kubernetes Essentials course.

## OBJECTIVES

- Creating a Kubernetes cluster with version 1.13 of Kubernetes using Kubeadm
- Understand Kubernetes Jobs and CronJobs
- Understand multi-container pods
- Setting up Readiness and Liveness probs to self-heal application pods
- Setting up Role Based Access Control in Kubernetes cluster
- Understand how to use user accounts and service accounts in RBAC
- Configure NetworkPolicies to control ingress and egress traffic to a Pod
- Understand Logging and Monitoring in Kubernetes
- Setting up Horizontal Pod AutoScaler for Kubernetes Deployments
- Understanding debugging and troubleshooting in Kubernetes
- Understand ConfigMaps and Secrets and use them in Complex Deployments
- Understand how to apply SecurityContext in Pod and Container level
- Overview of CKAD Examination

## COURSE OUTLINE

### Day 1

- Kubernetes Installation Using Kubeadm Tool
- Pod Design
- Multicontainer Pods
- Observability

### Day 2

- Configuration
- Role Based Access Control
- Services & Networking
- CKAD Overview

## WHO SHOULD ATTEND

- Developers who wish to containerize software applications
- Administrators who are new to container technology and container orchestration
- Architects who are considering using container technologies in software architectures

## PREREQUISITES

- Knowledge of basic unix / linux commands will be good to have
- Valid AWS account and individual credentials to create EC2 instances
- Should have knowledge to create AWS EC2 instances and should know how to access EC2 instances via SSH
- Should have attended Kubernetes Essentials course by CloudThat

### TRAINING CALENDAR

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## TESTIMONIALS

“ CloudThat has impressed me with their AWS training expertise and this time I had a similar experience with OpenStack. I appreciate their service for their expertise in the subject and the professional approach they show in offering their service. ”

- Safer (Tech Lead, Yahoo)

“ It is very professional and hands-on training. The trainer is extremely responsive and knowledgeable on the topics covered. I would recommend CloudThat to anyone who is looking for quality, hands-on training on these latest technologies. ”

- Srinivasa (Associate Professor, PES University)

“ CloudThat - The best place to learn Cloud Computing technologies. Trainers at CloudThat have indepth knowledge about the subject. The way they explain is too good. They give personal attention to all candidates and keep the sessions interactive. ”

- Gladwin (Cloud Admin, Cognizant)

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