Certified Kubernetes Application Developer (CKAD) Certification BootCamp

Duration: 2 Days

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

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

TESTIMONIALS

❝ Best training center to learn AWS Cloud Computing Services in India. Training was excellent and trainer has good knowledge about the real world market and used these cases to explain the course content. ❞
- Santosh (NOC Lead, CA Technologies)

❝ Good faculty, great atmosphere, great examples, made my life easier. Wish to advice friends & colleagues to join CloudThat. Great going, keep up the good work. Wish you a great success. ❞
- Veerendra (Assistant Manager, Accenture)

❝ Excellent training, there were lot of things to learn even for experienced AWS user. Trainer has very good knowledge and was able to explain real scenarios which were very good. ❞
- Srinivasa Rao (Technical Manager, Samsung Research India Bangalore)

For training inquiry,
please email us at: sales@cloudthat.in

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CloudThat Technologies
+91 8880002200
sales@cloudthat.in | www.cloudthat.in