

# KUBERNETES AND CLOUD NATIVE ASSOCIATE (KCNA)

- @HRITTIKHERE



# HRITTIK ROY

- GitHub Campus Expert
- Pre final year undergrad, India
- Google Venkat Scholar
- CKA, KCNA, PCA
- Love Long walks



# blogs

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## Latest Blog Posts

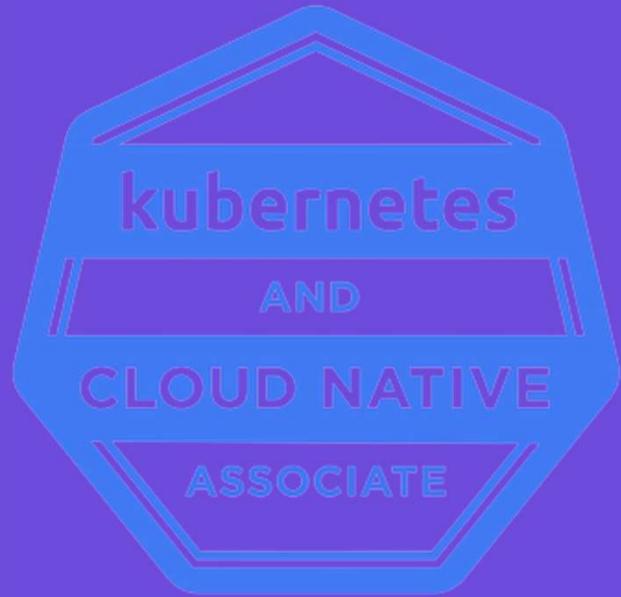
contributors 1 My Certifications —> Credly

This page contains a non-exhaustive list of some of my blogs I am proud of:

- How to use Kubernetes events for effective alerting and monitoring / [Grafana Labs](#)
- Profiling Go Code with GoLand / [JetBrains](#)
- Understanding Fuzz Testing in Go / [JetBrains](#)
- How to SSH into a Docker container / [Tailscale](#)
- How infrastructure as code improves DevOps / Tailscale
- Managing Your Hyperconverged Network with Harvester / [SUSE](#)
- 5 Ways to Access Kubernetes Clusters / [Loft Labs](#)
- Harness Software Delivery Foundation: How you can crack it? / dev.to
- How to Set Up Helm Rollbacks in Harness / [Harness](#)
- Helm on Harness / Harness
- Introducing Delegate Installation via Helm / Harness
- Start Deploying in 5 Minutes with a Delegate-first Approach / Harness
- Top AWS Interview Questions / Exponent
- Openshift vs. Kubernetes: Understanding Container Orchestration Options / [Earthly](#)
- 15 Essential Linux Terminal Commands / [Earthly](#)
- Using Kubectl Logs / In-Depth Tutorial
- Kubernetes Storage Classes / In-Depth Tutorial
- How to Deploy Postgres on Kubernetes

# FACTS

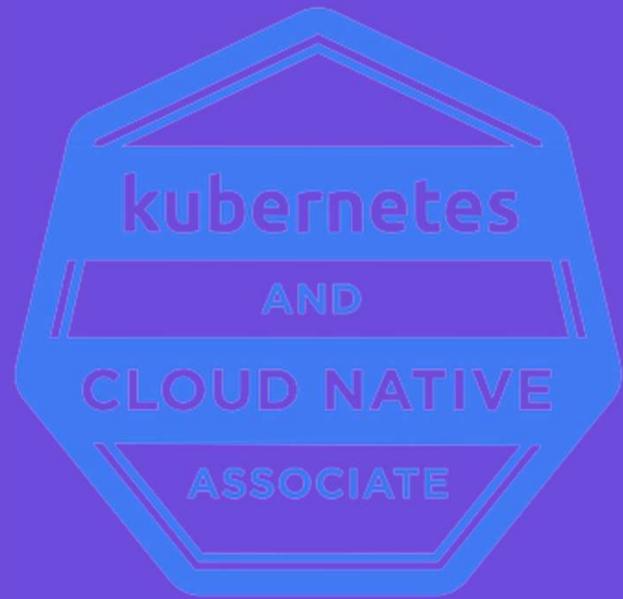
- Created by CNCF
- 250 USD
- Online based with MCQs unlike CKA
- Duration of Exam 90 minutes + 30
- Certification Valid for 3 Years



# WHO'S IT FOR

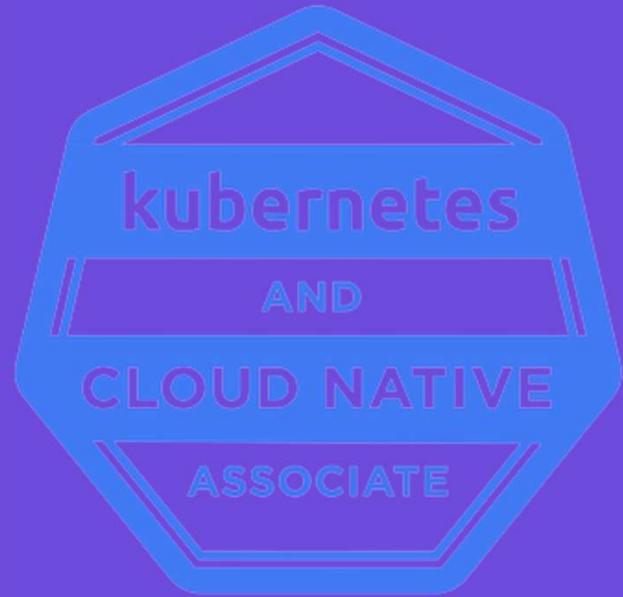
*Students interested in advancing to the professional level through a demonstrated understanding of Kubernetes foundational knowledge and skills.*

- Difficult Exam for Beginners
- Requires Hands on Knowledge
- Students who're getting started
- People who want in the cloud native ecosystem



# PASSING MARKS

- Passing Score 75% or above
- Total ~ 60 Questions
- Can get max 15 questions wrong
- No Negative Marking
- Two Attempt to Pass



# TEST ENVIRONMENT

- Proctored with Verification
- Verification consist of Room
  - Clutter-free work area
  - Clear walls
  - Lighting
  - In Focus of Camera
  - No person in the room

## Your Hardware

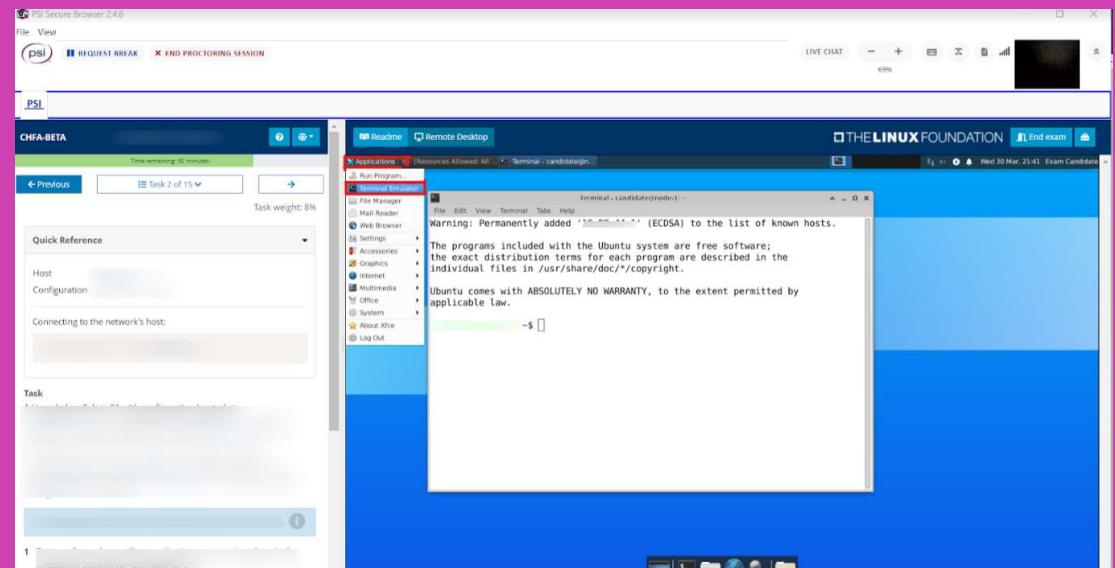
Here are the supported operating systems in the new PSI Bridge Platform

Windows (64-bit only)	Windows 8.1, 10, 11
MacOS	macOS 10.15(Catalina), 11(Big Sur), 12(Monterey)
Ubuntu	18.04, 20.04

Your machine's display resolution should be at least **1368x769** or higher. Must have a working microphone. Your internet speed should be at least **300kbps** download and upload speed. And lastly, your camera should be movable enough to show your entire room. If you're using a laptop you can just carry the laptop and pan it around but if you have a desktop, then you'll need an external webcam. Note that you can only take the exam with computers, so no tablets or mobile devices.

# TEST ENVIRONMENT

- Reliable Internet
- Webcam / Microphone
- PCA Browser
- Windows, Mac or Linux
- Verification of ID
  - Passport
  - Drivers License
  - Aadhar/Pan



# EXAM ENVIRONMENT



- MCQ Based
- Can Review your questions
- Questions are independent with no hints
- Exam can stop if you go out of Frame

# SYLLABUS

## Exam details

This exam is an online, proctored, multiple-choice exam.

DOMAIN	WEIGHT
Kubernetes Fundamentals	46%
Container Orchestration	22%
Cloud Native Architecture	16%
Cloud Native Observability	8%
Cloud Native Application Delivery	8%

# KUBERNETES FUNDAMENTALS

46% Weightage

- Kubernetes Resources
- Kubernetes Architecture
- Kubernetes API
- Containers
- Scheduling



# CONTAINER ORCHESTRATION

22% Weightage

- Container Orchestration Fundamentals
- Runtime
- Security
- Networking
- Service Mesh
- Storage



# CLOUD NATIVE OBSERVABILITY

8% Weightage

- Telemetry & Observability
- Prometheus
- Cost Management

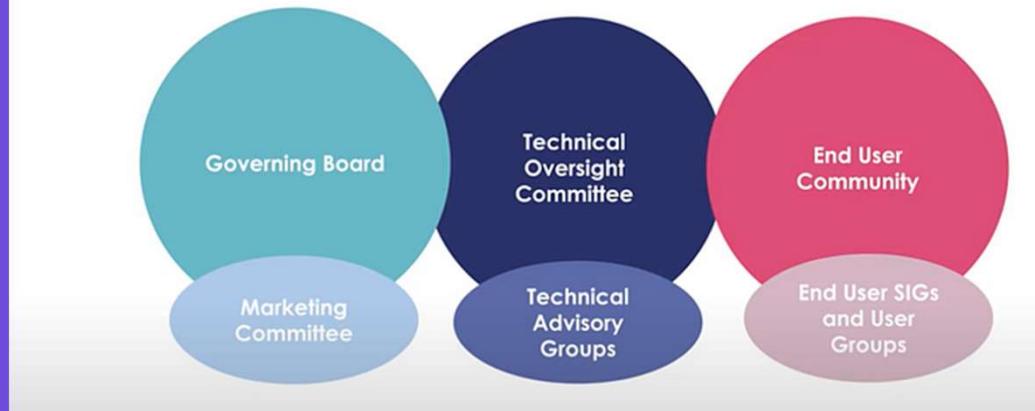


# CLOUD NATIVE ARCHITECTURE

16% Weightage

- Cloud Native Architecture Fundamentals
- Autoscaling
- Serverless
- Community and Governance
- Personas
- Open Standards

**CNCF Governance Structure**



# CLOUD NATIVE APPLICATION DELIVERY

8% Weightage

- Application Delivery Fundamentals
- GitOps
- CI/CD



# RESOURCES

- Full Course from freeCodeCamp
- Preparation for Other Exams like CKA
- Training course for Linux Foundation (299\$ with Exam)
- Practice on real Environment



A thumbnail for a training course. It features a dark blue background with white text. At the top, there's a small white box containing a play icon and the text "TRAINING COURSE". Below this, the main title "Kubernetes and Cloud Native Essentials (LFS250)" is displayed in large, bold, white font. Underneath the title, there's a short description in smaller white text: "This course provides an overview of cloud native technologies and how container orchestration systems like Kubernetes can help to implement and maintain them." At the very bottom, there's a rating section showing five yellow stars followed by the text "4.3/5 Stars".

# RESULTS

- 24 HOURS after exam ends



# WHAT'S NEXT

- Prepare for CKA and other Cloud Native Certs
- Focus on sharing knowledge





**Q&A** [linktr.ee/hrittikhere](https://linktr.ee/hrittikhere)

