



ADINUSA PRO

Study Plan Kubernetes Developer (K9-DEV)

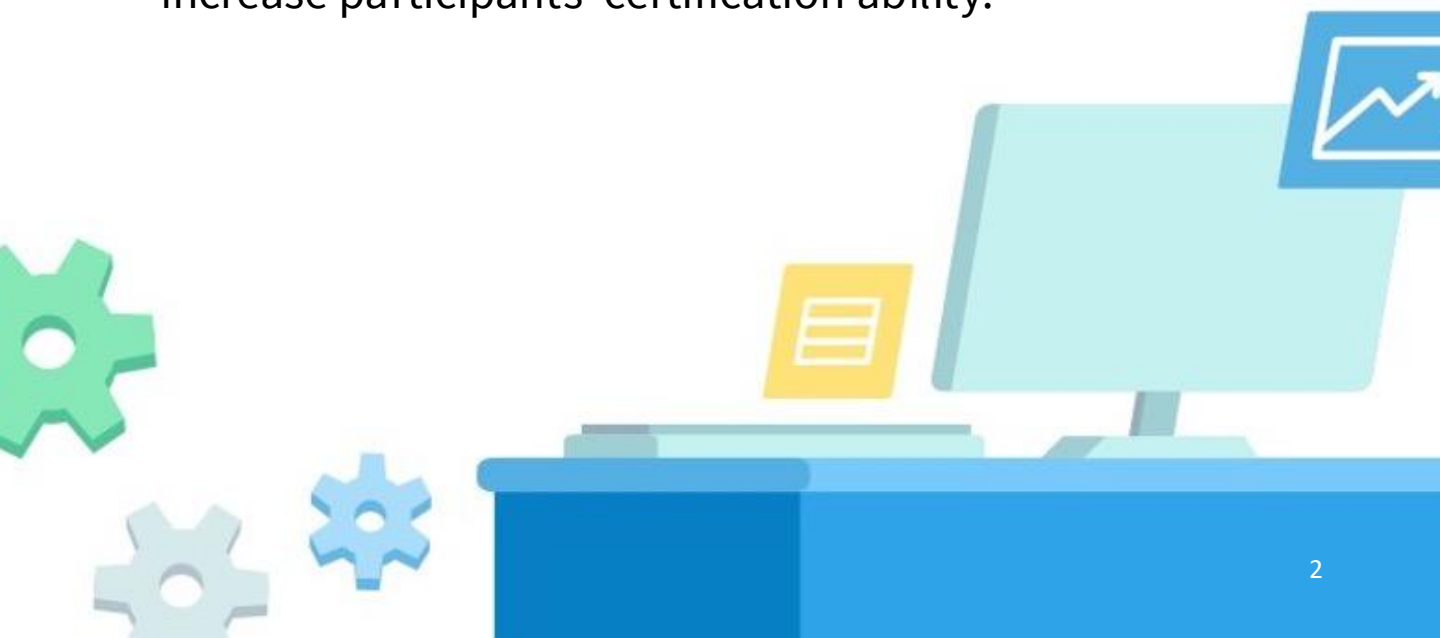


**ADINUSA
PRO TRAINING**
by Boer Technology

adinusa.id/pro-training

About This Course

This course is ideal for developers looking to gain skills in Kubernetes application development. Students should be familiar with the Linux command line programming languages like Python, Node.js, Golang and have a basic understanding of cloud-native application concepts and architectures. The course covered is directly aligned with the knowledge domains tested by the Cloud Native Computing Foundation Certified Kubernetes Application Developer (CKAD) Program and will substantially increase participants' certification ability.



Summary



Training Duration: 18 Hours

Course Main Subjects

- Introduction to Kubernetes
- Kubernetes Deployment
- Application Design and build using multi language programming
- Kubernetes Application Environment and Security
- Kubernetes Services and Networking
- Application Deployment
- Application Observability and Maintenance



Target Audience

System Administrators, Cloud Administrators, Developers, Site Reliability Engineer.

Prerequisites

- Linux Administration (LF-ADM)
- Docker Administration (DO-ADM)

Learning Output

The learning topics will assist participants in :

1. Understand how to manage Kubernetes resources
2. Understand how to create container image
3. Understand how to deploy application to Kubernetes.

Technical Requirements

Participants must have a laptop or computer with the following minimum specifications and tools installed:

Specification	Details
Operating System	Windows, Linux, or MacOs
Processor	Intel Core i3
Memory	4 GB RAM
SSH Client	Termius / Putty / MobaXTerm
Text Editor	Sublime Text / VSCode
Browser	Chrome and Firefox
VPN (Optional)	https://client.pritunl.com/

Facilities and Resources

Participants will have access to the following resources on and after the training:

- **Virtual machine lab** : Available until H+5 post-training for hands-on practice and experimentation.
- **Discussion group** : Available until H+30 post-training for ongoing support and collaboration with peers.
- **Class materials** : Access to all class materials for 1 year (start day one training)
- **Certificate** : Participants will receive a certificate of completion upon finishing the course.
- **Recording Class** : Access to recorded sessions for review and reinforcement of learning.



Terms and Conditions

Course Purchase Rules

- **Registration:**

Participants must register through the official ADINUSA website and fill out the registration form with accurate and complete information.

- **Payment:**

Course payment must be made in full before access to training materials is granted. Accepted payment methods include bank transfer, credit card, and digital payment.

- **Purchase Confirmation:**

After payment is received, participants will receive a confirmation email containing course details and instructions for accessing the materials.

- **Schedule Changes:**

ADINUSA reserves the right to change the course schedule or replace instructors if necessary. Participants will be notified of such changes via email or whatsapp.



Terms and Conditions

Access Management

- **Access License:**

Each participant will be granted an access license for 1 year, starting from the date of registration. This license includes access to all relevant training materials.

- **Use of Materials:**

Training materials may only be used for personal purposes and may not be distributed, sold, or published without written permission from ADINUSA.

- **Account Security:**

Participants are responsible for maintaining the confidentiality of their account information. ADINUSA is not liable for any losses arising from unauthorized account use.

- **Access Termination:**

ADINUSA reserves the right to terminate a participant's access to training materials if violations of the applicable terms and conditions are found, including but not limited to unauthorized distribution of materials.

For detailed information regarding our terms and conditions, please visit [Terms and Conditions](#).

Certification

Upon successful completion of the course, participants will receive two certificates with validation 2 years:



Digital Certificate



Learning Strategies



Pre-Test



Theory



Hands-on Lab



Post-Test



Internal Exam



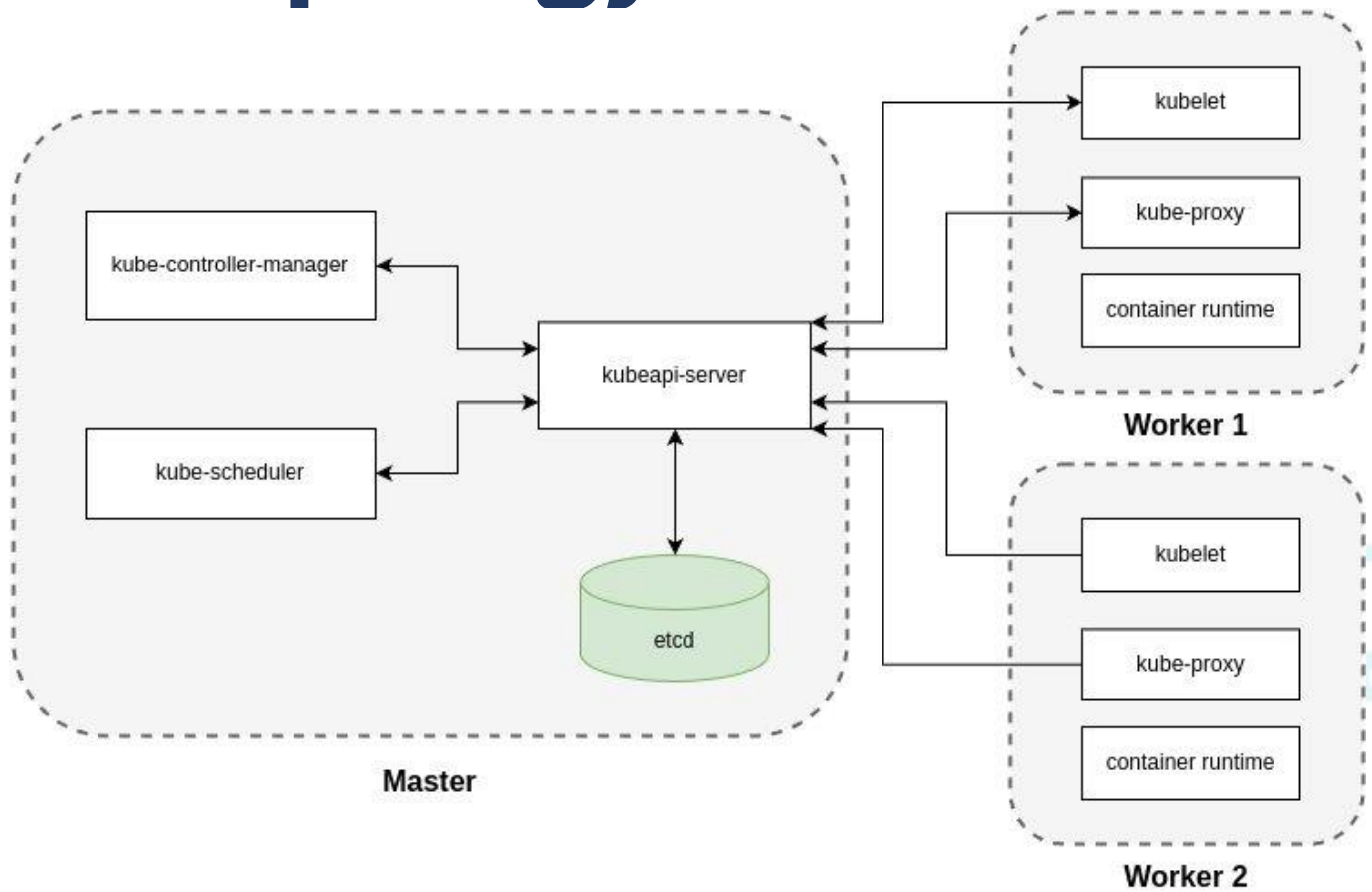
Reporting



Forum
Discussion



Training Topology



Learning Modules

Training Plan	
Topic	Outcome
Introduction Kubernetes	Understand the concept of microservices technology in building applications Understanding kubernetes technology
Kubernetes Architecture	Understand the master and worker function Understand the concepts of pods, containers, and nodes Understanding network services on a Kubernetes cluster
Application Design and Build	Understand Efficient Resource Management Understand Improved Scalability
Application Environment, Configuration, and Security	Understand Improved Configuration Management Understand Implementation Security Features
Services & Networking	Understand the concept of Reliable Service Discovery Can implement Network Policies on kubernetes

Application Deployment	Understand the concept of Blue/Green Deployments Can implement Rolling Updates
Application Observability and Maintenance	Understand the concept of Improved Observability kubernetes Can implement proactive maintenance kubernetes

Thank You

Another Course :

<https://adinusa.id/pro-training>