

Home: Public Cloud & Documentation Engine

Welcome to the documentation of the **Cloud-Based Knowledge Base**.

This project focuses on deploying a secure and globally accessible DokuWiki instance using modern cloud infrastructure and advanced security layers.

Infrastructure Overview

Unlike the local lab, this environment is hosted in the public cloud to ensure high availability and accessibility:

- **Compute Provider:** Oracle Cloud Infrastructure (OCI).
- **Operating System:** Ubuntu Server.
- **Edge Security:** Cloudflare (DNS Proxying & Web Application Firewall).
- **SSL/TLS:** Automated encryption via Certbot (Let's Encrypt).

Security Architecture

To protect the data and the server, multiple layers of security have been implemented:

- **Network Isolation:** Strict Security Lists in OCI and internal iptables configuration.
- **Brute-Force Protection:** **Fail2Ban** monitoring SSH and web access logs.
- **Privacy:** Cloudflare Proxy mode to mask the origin server's IP address.

Project Goals

1. Create a central, encrypted place for technical documentation.
2. Automate server maintenance and backup processes.
3. Implement a production-grade security setup for public-facing servers.

— **Navigation Hint:** Use the menu on the left to explore technical details regarding OCI setup, Cloudflare integration, and automated backup strategies.

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