



உங்கள் கடை மற்றும் வியாபாரத்திற்கு ஏற்ற Website & Andriod App மற்றும் Software மிகச்சிறந்த முறையில் செய்து கொடுக்கப்படும்.

Expertise : AI, Machine Learning & Data Science \ Cybersecurity & Ethical Hacking
IoT, Blockchain & Cloud Computing \ Full Stack Web & Mobile Development
Digital Marketing & SEO

W3 App Developers

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Cloudflare – 100+ Lab Exercises (Basic, Intermediate, Advanced)

□ Basic Level (30+ Exercises)

Objective: Understand the fundamentals of Cloudflare, CDN basics, DNS management, and basic security configurations.

□ Cloudflare Fundamentals

- Create and configure a Cloudflare account.
- Add and verify your website on Cloudflare.
- Understand and configure DNS records via Cloudflare.
- Enable Cloudflare's CDN and understand cache behavior.
- Set up SSL/TLS (Flexible, Full, Full strict).
- Configure basic firewall rules (IP blocking, country blocking).
- Enable and test DDoS protection.
- Set up basic Page Rules for URL redirects and cache control.
- Explore and configure Cloudflare Analytics dashboards.
- Use Cloudflare's Automatic Platform Optimization (APO).

□ Practice Exercises

- Migrate DNS from your registrar to Cloudflare.
- Configure a domain with Cloudflare SSL and verify HTTPS.
- Set up caching and purge cache rules.
- Block specific IP addresses or countries using firewall rules.
- Create URL forwarding via Page Rules.

□ Intermediate Level (40+ Exercises)

Objective: Build expertise in performance optimization, security hardening, and advanced Cloudflare configurations.

□ Performance & Security Optimization



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- Configure Cloudflare Workers for edge computing.
- Implement custom caching strategies with Workers KV.
- Use Rate Limiting to protect APIs and login pages.
- Set up Cloudflare Load Balancing with health checks.
- Configure WAF (Web Application Firewall) custom rules.
- Use Cloudflare Access for Zero Trust security on internal apps.
- Implement Bot Management and monitor bot traffic.
- Enable HTTP/3 and QUIC protocol optimizations.
- Set up and manage Cloudflare Spectrum for TCP/UDP applications.
- Configure Brotli and Rocket Loader for frontend performance.

□ Practice Exercises

- Create a Cloudflare Worker script to modify HTTP headers.
- Implement rate limiting on a sensitive endpoint.
- Deploy Load Balancing with automatic failover between servers.
- Write custom WAF rules to block SQL injection attempts.
- Secure an internal app using Cloudflare Access.

□ Advanced Level (40+ Exercises)

Objective: Master Cloudflare's advanced edge solutions, automation, security at scale, and integration with CI/CD pipelines.

□ Advanced Edge & Automation

- Develop complex Cloudflare Workers with Durable Objects.
- Integrate Cloudflare Workers with external APIs and databases.
- Automate Cloudflare management using API and Terraform.
- Implement Cloudflare Stream for video streaming solutions.
- Use Cloudflare Logs for detailed traffic analysis and SIEM integration.
- Configure multi-cloud and hybrid architectures with Cloudflare.
- Enforce advanced Zero Trust policies with Cloudflare Gateway.
- Perform penetration testing and security audits using Cloudflare tools.
- Set up custom SSL certificates and keyless SSL.
- Deploy serverless functions with Workers to replace backend APIs.

□ Practice Exercises



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- Build a serverless authentication API using Cloudflare Workers.
- Automate DNS and firewall rule deployment via Cloudflare API and Terraform.
- Analyze and visualize Cloudflare logs for security insights.
- Integrate Cloudflare Stream into a video sharing platform.
- Design a multi-region failover system with Cloudflare Load Balancer and Workers.

□ Capstone Projects

- Deploy a globally distributed e-commerce platform using Cloudflare CDN and Workers.
- Build a secure internal dashboard accessible only via Cloudflare Access.
- Create a real-time edge API using Workers and Durable Objects.
- Automate Cloudflare infrastructure as code (IaC) with Terraform.
- Implement a bot mitigation and advanced WAF policy suite for a high-traffic website.

□ Tools & Technologies

- Cloudflare Dashboard & API
- Cloudflare Workers & Durable Objects
- Terraform Cloudflare Provider
- Cloudflare Access & Gateway
- Cloudflare Stream
- Cloudflare Load Balancer
- Security & Performance Analytics
- RESTful APIs & Webhooks