

Al-Kitab University Website Optimization & Management Plan

1. Hosting & Server Stack

- Hosting Type: Cloud Enterprise Hosting (Hostinger)
- Frontend Stack:
 - HTML5, CSS3, JS (Minified & Optimized)
- Backend Stack:
 - MySQL Database optimized and maintained
 - PHP (OOP-based) as used by WordPress and most of its plugins
 - Serv<mark>er Techn</mark>ologies:
 - LiteSpeed Web Server used for page caching, image optimization, and delivery
 - Cloudflare CDN protects and accelerates DNS, static, and dynamic content
 - QUIC.cloud works with LiteSpeed to cache both static and dynamic pages
- The combination of Cloudflare + QUIC.cloud ensures:
 - Static content caching (CSS, JS, images)
 - Dynamic page caching (HTML, personalized content)
 - DDoS protection and smart edge delivery

2. Core Performance Optimization

CSS & JS Optimization
All features are handled via LiteSpeed Cache:



- CSS Minify 0
- Generate UCSS 0
- **CSS** Combine External and Inline 0
- Load CSS Asynchronously (currently disabled for debugging one section) 0
- Critical CSS per URL 0
- Inline CSS Async Library 0
- INIVERSIO Font Display Optimization: swap
- JS:
 - **JS Minify** 0
 - **Combine External and Inline** 0
 - Defer JavaScript 0
- HTML Minify
- Image & Lazy Load
 - Lazy Load (images, background images) 0
 - Generate LQIP (Low Quality Image Placeholder) in background 0
 - Viewport Images L-KITAB UNIVERSITY 0
 - Viewport Images Cron 0
 - Convert images to WebP format 0

3. Caching & CDN

- LiteSpeed Cache Settings
 - Public Cache TTL: 604800 seconds (1 week) 0
 - Private Cache TTL: 1800 seconds (30 min) 0



- REST API & Feed Cache TTL: 604800 seconds
- Cache Purging Hierarchy:
 - 1. Elementor change \rightarrow Regenerate files if needed
 - 2. Purge LiteSpeed cache
 - 3. Purge Cloudflare cache
 - 4. (Optional) Clear file-level cache in Hostinger

RSI

- Cloudflare Configuration
 - DNS Protection:
 - DDoS Protection: ON
 - IP obfuscation: Enabled
 - Caching & Acceleration:
 - HTTP/2
 - HTTP/3
 - HTTP/2 to Origin
 - 0-RTT Connection Resumption
 - Always Use HTTPS
 - TLS 1.3 AL-KITAB UNIVERSITY
 - SSL/TLS Encryption: Full (Strict)
 - Early Hints
 - Bot & Firewall Protection:
 - Bot Fight Mode: ON
 - Custom firewall rules (blocking suspicious regions, VPNs, and known bots)



4. Cron & Scheduled Tasks

- Default WordPress Cron: Disabled in wp-config.php
- Manual Cron via hPanel:
 - Schedule: Every 30 minutes
- Reliable task execution for:
 - Plugin schedules (LiteSpeed CSS queue, backups, etc.)
 - Prevents delays from visitor-based cron triggering

5. Database Optimization

- Database Engine: MySQL
- LiteSpeed Cache Database Optimization: ON
 - Removes post revisions, auto-drafts, trashed items, spam comments, transients, etc.
 - Keeps tables clean and query time fast
- 6. Security Measures
- Server Security:

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- TLS 1.3 with Full (Strict) encryption
- DDoS protection at Cloudflare level
- Custom Cloudflare firewall rules
- Bot Management:
 - Allowed bots only (Googlebot, Bingbot, etc.)
 - Block unknown bots & crawlers
- HTTPS Everywhere:



- Enforced site-wide via Cloudflare and WordPress
- Sensitive Area Protection:
 - \circ $\,$ wp-login and wp-admin rate limited or challenged by Cloudflare
- 7. Maintenance & Monitoring
- Weekly:
 - Review cron jobs queue and task completion
 - Monitor CPU, RAM, and load from hPanel
- Monthly:
 - Purge cache fully and re-optimize via LiteSpeed if changes are made
 - Backup full site
 - Security audit via Cloudflare Firewall Events
- As Needed:
 - Monitor Elementor compatibility when regenerating CSS/JS

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