

# CDN SSL/TLS Security: What it is, why it matters, and a safe setup checklist

Gridinsoft Help Center

## What it is

CDN SSL/TLS security wraps your website traffic in encryption at the CDN edge and all the way back to your origin. The CDN sits between visitors and your servers; done right, it stops eavesdropping, tampering, and spoofed look-alike pages while keeping your site fast. For a plain-English walkthrough, see our [CDN SSL/TLS guide](#).

## Why it matters

- Privacy & integrity: attackers can't read or alter what visitors see.
- Trust: the browser padlock + valid cert proves they reached your site.
- Resilience: modern TLS (1.3) with a CDN improves performance and uptime.

## How it works (30-second tour)

- Edge TLS: the CDN presents a certificate for your domain to visitors.
- Origin TLS: the CDN connects to your server over HTTPS, validating your origin cert (ideally strict verification or mTLS).
- Extras: HSTS, OCSP stapling, HTTP/2/3, and auto-renewed certs tighten security and speed.

## Common pitfalls (and quick fixes)

- Edge-only HTTPS: Traffic edge->origin left on HTTP. Fix: require "Full/Strict" TLS to origin.
- Expired/mismatched certs: Wrong hostname or chain. Fix: automate issuance; monitor expiry.
- Mixed content warnings: HTTP images/scripts on HTTPS pages. Fix: load everything via HTTPS.
- Blocked origin: Firewall doesn't allow CDN IPs. Fix: allowlist CDN ranges or use tunnels.

## Safe setup checklist

- Enable HTTPS at the CDN and auto-issue certs for all hostnames.
- Turn on TLS 1.3, modern ciphers, and OCSP stapling.
- Enforce HTTPS redirects and HSTS (test first, then consider preload).
- Set CDN->Origin to Strict HTTPS (validate origin cert or use mTLS).
- Monitor cert health and rotate keys on a schedule.