

**Application Deployment with Cloudflare**

**Course Number:** CFLR-102  
**Duration:** 2 days

**Overview**

This Application Deployment with Cloudflare training teaches attendees how to leverage Cloudflare's services in their applications, including domain registration, SSL certificates, traffic management, and caching.

Note: This class is taught with Node.js and JavaScript/TypeScript.

**Prerequisites**

It is recommended but not required that participants have JavaScript/TypeScript programming experience.

**Materials**

All Cloudflare training students receive courseware covering the topics in the class.

**Software Needed on Each Student PC**

Visual Studio, Node.js, a web browser, and Internet access.

**Objectives**

* Explore how Cloudflare supports application deployment
* Understand domain registration and SSL certificates
* Employ different kinds of SSL Certificates to secure web applications
* Configure caching to speed the delivery of resources

**Outline**

* Introduction
  + What is Cloudflare?
  + How does Cloudflare support Application Deployment?
* Domain Registration Services
  + What are Domain Registration and Domain Registration Services?
  + Benefits of Cloudflare Registration
  + Manage Domain Names
  + Purchase a Domain Name
  + Transfer a Domain Name
* SSL/TLS Services
  + What are SSL and SSL Management Services?
  + Encrypt Traffic Between Cloudflare and Web Browser
  + End-to-End Encryption with a Self-Signed Cert on the Web Server
  + Strict End-to-End Encryption
  + SSL/TLS Recommender
  + Update SSL Settings via the API
* SSL Certificates
  + Edge Certificates
  + Client Certificates
  + Origin Server
  + Custom Hostname
* Enable SSL for SaaS Applications
* Speed
  + File Size Optimization
  + Optimized Delivery
  + Caching
  + Mobile Redirect
  + Browser Insights
* Caching
  + Configuration
  + Cache Rules
  + Tiered Cache
  + Cache Reserve
* Traffic
  + Cloudflare Tunnel
  + Load Balancing
  + Load Balancing Analytics
  + Health Checks
  + Waiting Room
* Enable Multi-Cloud
  + What is Multi-Cloud?
  + Cloudflare + AWS
  + Cloudflare + Azure
  + Cloudflare + Google Cloud
  + Cloudflare + IBM
* Reduce Cloud Data Transfers
  + What is the Bandwidth Alliance?
* Integrate a deployed web application with Cloudflare
  + Evaluate how Cloudflare can optimize the web application
  + Configure a Domain Name
  + Configure SSL
  + Setup Email Routing
  + Improve Speed
  + Cache Resources
  + Manage Traffic
* Conclusion