

**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