

**Building Applications with Cloudflare**

**Course Number:** CFLR-100  
**Duration:** 3 days

**Overview**

Accelebrate’s Building Applications with Cloudflare training course teaches students how to leverage Cloudflare's services for building applications, including domain registration, serverless hosting, cloud storage, and website development.

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

**Prerequisites**

Participants must have JavaScript/TypeScript programming experience. All students must have a credit card to sign up for free services.

**Materials**

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

**Software Needed on Each Student PC**

* A recent version of Visual Studio Code or Visual Studio + Node.js
* Web Browser
* Related lab files that Accelebrate provides

**Objectives**

* Explore how Cloudflare can be used to build applications
* Understand  Cloudflare's services that support application development
* Deploy serverless applications
* Store cloud application data with Cloudflare
* Build web applications with Cloudflare

**Outline**

* Introduction
  + What is Cloudflare?
* Domain Registration
  + What are Domain Registration and Domain Registration Services?
  + Benefits of Cloudflare Registration
  + Manage Domain Names
  + Purchase a Domain Name
  + Transfer a Domain Name
* Serverless Applications
  + Workers
  + Email Routing
* Management Tools
  + Cloudflare Dashboard
  + Wrangler CLI
* Workers
  + What are Workers?
  + Workers Pricing Model
  + Supported Languages
  + Building Workers
  + Autoscaling
  + Generate static assets when needed
* Build Workers
  + Using Node.js
  + Code Workings
  + Storing Key-Value Pairs
  + Queues
* Email Routing
  + Register a domain
  + Register destination email accounts
  + Setup email DNS
  + Reroute email from one destination to another
  + Practical applications for development
* SaaS for Developers
* Storage
  + R2
  + Workers KV
  + Durable Objects
* Website Development
  + Pages
  + Stream
  + Images
* Web3 Gateways
  + What is Web3?
  + InterPlanetary File System
  + Interact with Ethereum Blockchain
* Conclusion