

**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