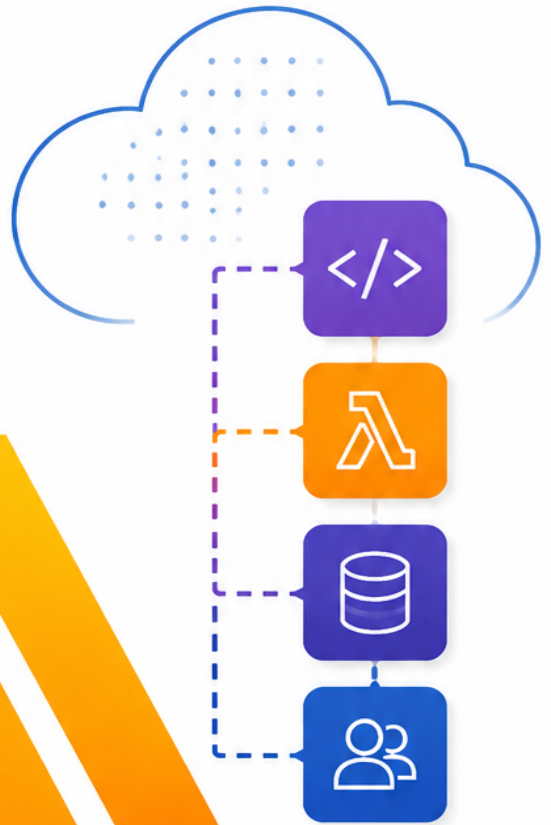


AWS Amplify Gen 2

FULL-STACK
DEVELOPMENT
ON THE CLOUD

Build, Deploy, and Scale
Modern Applications with
TypeScript, Serverless,
and AI-Powered Workflows



TypeScript
First



Serverless
by Default



Secure
by Design



Scale
with Confidence

STEVE T.

AWS Amplify Gen 2: Full-Stack Development on the Cloud

Build, Deploy, and Scale Modern Applications with TypeScript, Serverless, and AI-Powered Workflows

Steve T. Team Publications

This book is available at

<https://leanpub.com/awssamplifygen2full-stackdevelopmentonthecloud>

This version was published on 2026-06-24



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AWS Amplify Gen 2: Full-Stack Development on the Cloud

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Build, Deploy, and Scale Modern Applications with TypeScript, Serverless, and AI-Powered Workflows

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Introduction: The Full-Stack Problem and Its Solution

Every full-stack developer has been here. You start with a vision for an application. A task manager, a social feed, a SaaS dashboard, a real-time collaboration tool. You sketch the data model, imagine the UI, and then you hit the wall that every full-stack project eventually encounters: the infrastructure gap.

On one side, you have your frontend code: React components, state management, routing. On the other, you have your backend: a database with tables and indexes, an API with endpoints and auth middleware, a file storage bucket with access policies, a serverless function to handle business logic, and all of it wired together with IAM roles, VPC configurations, and deployment scripts. Each piece is well-understood in isolation. The problem is stitching them into a coherent system that works reliably, scales when traffic spikes, and survives a security audit.

This gap exists because traditional cloud development forces you to be two people at once: a frontend developer who knows React and a backend engineer who understands DynamoDB, AppSync, Cognito, and Lambda. The tooling has not kept pace with the expectation that a single developer or small team should be able to build and deploy a complete application.

AWS Amplify Gen 2 was built to close this gap. It is not a framework in the traditional sense. It is a full-stack development platform that lets you define your entire backend: data models, authentication, storage, serverless functions – in TypeScript, and then provisions and deploys the underlying AWS infrastructure automatically. You write `defineData()` and Amplify creates an AppSync GraphQL API backed by DynamoDB. You write `defineAuth()` and it sets up a Cognito user pool with all the right policies. You write a function in TypeScript and it becomes a Lambda with the right triggers. The infrastructure is not something you configure separately. It emerges from your code.

This book will walk you through that journey. We begin with the evolution of Amplify: why Gen 1 existed, what worked, what did not, and why Gen 2 was necessary. We then move into hands-on territory: setting up your development environment, defining data models, implementing authentication, building APIs, adding real-time capabilities, handling file storage, deploying with CI/CD, hardening security, monitoring production, optimizing performance and cost, and finally putting it all together in production-grade architectures.

By the end, you will not just know how to use Amplify. You will understand when to use it, when to reach for something else, and how to make it work at scale. Let us begin.

Chapter 1: The Amplify Landscape – From Gen 1 to Gen 2

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The Problem with Traditional Full-Stack Tooling

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AWS Amplify Gen 1: What Worked, What Did Not

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Introducing Amplify Gen 2: A New Paradigm

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Choosing the Right API Style for Your Use Case

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Decision Point

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Yes

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No

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Production-Grade Troubleshooting: Performance and Cost Optimization Workflows

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Multi-Tenant Data Access Flow

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