# Development Guide

Best practices, testing, and development workflows for AWS CDK applications.

## 🛠️ Development Essentials

### Core Development

* [Development Chapter](chapter-develop.md) - Development workflow overview
* [Projects](projects.md) - Organizing CDK projects
* [Versioning](versioning.md) - Managing CDK and dependency versions

### Assets and Resources

* [Assets](assets.md) - Working with files, Docker images, and assets
* [Build Containers](build-containers.md) - Custom build environments
* [Tagging](tagging.md) - Resource tagging strategies

### Testing and Quality

* [Testing](testing.md) - Unit testing, integration testing
* [Testing Locally](testing-locally.md) - Local development and testing
* [Testing with SAM CLI](testing-locally-with-sam-cli.md) - Using SAM for local testing
* [Testing Build with SAM](testing-locally-build-with-sam-cli.md) - Build testing with SAM

### Best Practices

* [Best Practices](best-practices.md) - General CDK best practices
* [Security Best Practices](best-practices-security.md) - Security guidelines and practices

### Getting Started with Local Testing

* [Testing Locally - Getting Started](testing-locally-getting-started.md) - Quick start for local testing

## 🎯 Recommended Learning Path

### For New Developers

1. [**Development Chapter**](chapter-develop.md) - Overview of development process
2. [**Projects**](projects.md) - Project organization
3. [**Best Practices**](best-practices.md) - Follow established patterns

### For Testing

1. [**Testing Overview**](testing.md) - Comprehensive testing guide
2. [**Testing Locally**](testing-locally.md) - Local development setup
3. [**SAM CLI Integration**](testing-locally-with-sam-cli.md) - Advanced local testing

### For Production

1. [**Security Best Practices**](best-practices-security.md) - Security guidelines
2. [**Tagging**](tagging.md) - Resource organization
3. [**Versioning**](versioning.md) - Dependency management

## 🔗 Related Sections

* [Core Concepts](../02-core-concepts/) - Understand fundamentals first
* [Deployment](../04-deployment/) - Deploy your applications
* [Advanced](../05-advanced/) - Advanced patterns and techniques