# Examples and Tutorials

Real-world examples and step-by-step tutorials for AWS CDK applications.

## 🎯 Featured Examples

### Serverless Applications

* [Serverless Example](serverless_example.md) - Complete serverless application walkthrough

## 📚 Tutorial Categories

### Web Applications

* Examples of web applications built with CDK
* Frontend and backend integration patterns
* Static site hosting with CDK

### Serverless Patterns

* [Serverless Example](serverless_example.md) - Lambda, API Gateway, DynamoDB
* Event-driven architectures
* Microservices with CDK

### Data and Analytics

* Data pipelines and processing
* Analytics and reporting solutions
* Real-time data streaming

### Container Applications

* ECS and EKS deployment patterns
* Containerized application examples
* Multi-service architectures

## 🚀 Getting Started with Examples

### For Beginners

1. Start with [Serverless Example](serverless_example.md) - comprehensive tutorial
2. Review the code and understand the patterns
3. Modify the example for your use case

### For Intermediate Users

* Explore multiple examples to understand different patterns
* Combine concepts from different examples
* Build upon existing examples

## 🔧 How to Use Examples

1. **Study the Code** - Understand the CDK constructs used
2. **Deploy and Test** - Run the examples in your AWS account
3. **Modify and Extend** - Adapt examples to your needs
4. **Learn Patterns** - Extract reusable patterns for your projects

## 📋 Prerequisites

Before working with examples: - Complete [Getting Started](../01-getting-started/) tutorials - Understand [Core Concepts](../02-core-concepts/) - Have AWS environment set up and bootstrapped

## 💡 Best Practices for Examples

* Always review costs before deploying examples
* Clean up resources after testing
* Adapt security settings for your requirements
* Use examples as learning tools, not production templates

## 🔗 Related Sections

* [Getting Started](../01-getting-started/) - Foundation tutorials
* [Development](../03-development/) - Best practices for building
* [Advanced](../05-advanced/) - Advanced patterns and techniques

## 🤝 Contributing Examples

Have a great CDK example to share? Consider contributing: - Ensure examples follow CDK best practices - Include clear documentation and README - Test examples thoroughly before sharing