# Deployment Guide

Everything you need to deploy AWS CDK applications to AWS environments.

## 🚀 Deployment Essentials

### Environment Setup

* [Bootstrapping](bootstrapping.md) - Prepare AWS environments for CDK
* [Bootstrap Environment](bootstrapping-env.md) - Environment-specific bootstrapping
* [Bootstrap Customizing](bootstrapping-customizing.md) - Custom bootstrap templates
* [Bootstrap Troubleshooting](bootstrapping-troubleshoot.md) - Common bootstrap issues

### Configuration and Access

* [Configure Access](configure-access.md) - Set up AWS credentials and permissions
* [Configure Environment](configure-env.md) - Environment configuration
* [Configure Synthesis](configure-synth.md) - Synthesis configuration options
* [SSO CLI Example](configure-access-sso-example-cli.md) - AWS SSO setup example

### Deployment Process

* [Deployment Chapter](chapter-deploy.md) - Overview of deployment process
* [CLI Reference](cli.md) - CDK CLI commands and options
* [Deploy Troubleshooting](deploy-troubleshoot.md) - Common deployment issues

### Permissions and Security

* [Permissions](permissions.md) - IAM permissions for CDK deployments
* [Usage Data](usage-data.md) - Understanding CDK usage metrics

## 🎯 Quick Start Deployment

### First-Time Setup

1. [**Configure Access**](configure-access.md) - Set up AWS credentials
2. [**Bootstrapping**](bootstrapping.md) - Prepare your AWS environment
3. [**CLI Usage**](cli.md) - Learn essential CDK CLI commands

### Environment-Specific Deployment

1. [**Configure Environment**](configure-env.md) - Set up multiple environments
2. [**Bootstrap Environment**](bootstrapping-env.md) - Bootstrap specific environments
3. [**Deployment Chapter**](chapter-deploy.md) - Deploy to different environments

### Troubleshooting

* [**Bootstrap Issues**](bootstrapping-troubleshoot.md) - Fix bootstrap problems
* [**Deploy Issues**](deploy-troubleshoot.md) - Resolve deployment failures

## 📋 Pre-Deployment Checklist

* ☐ AWS credentials configured
* ☐ Target environment bootstrapped
* ☐ Necessary permissions assigned
* ☐ Application tested locally
* ☐ CloudFormation templates synthesized

## 🔗 Related Sections

* [Getting Started](../01-getting-started/) - Initial setup
* [Development](../03-development/) - Prepare your application
* [Advanced](../05-advanced/) - Advanced deployment patterns