

Cdk Service Cheat Sheet

Account Number	Account Title	2001 Budget	2002 Budget	Proposed
>>10-303	BGTD FUND BAL	0.00	0.00	0.00
>>10-307	BG WD FR CAPRSV	0.00	0.00	0.00
>>10-308	Budgeted WD Sale/LB Rsv	0.00	0.00	0.00
>>10-309	Budgeted WD Cap Rsv - InEligible Costs	0.00	0.00	0.00
>>10-310	Budgeted WD Maint Rsv	0.00	0.00	0.00
>>10-ADR	Actual (Excess)Deficiency of Revenues	0.00	0.00	0.00
>>10-Enc	Adjust for Prior Year Encumbrances	0.00	91,777.80	0.00
10-0521-000	Transfer from Other Funds	0.00	0.00	0.00
10-1210-000	TAX LEVY	0.00	10,040,440.00	6,229,791.00
10-1270-000	OTHER LOCAL GOV	0.00	0.00	0.00
10-1310-000	TUNNDMDUALS	0.00	0.00	0.00
10-1320-000	TUITION	0.00	985,000.00	1,104,520.00
10-1500-000	MISC REV	0.00	150,000.00	150,000.00
10-1510-000	INTEREST	0.00	0.00	0.00
10-1511-000	INT/CAPITAL RES	0.00	5,000.00	5,000.00
10-1980-000	REFUND/PRIOR YR EXP	0.00	0.00	0.00
10-3111-000	CORE CURR. AID	0.00	3,384,011.00	3,384,011.00
10-3116-000	School Choice Aid	0.00	0.00	0.00
10-3120-000	TRANSPORTATION	0.00	54,508.00	54,508.00
10-3130-000	SPEC ED AID	0.00	565,100.00	565,100.00
10-3140-000	Bilingual Education	0.00	130,816.00	130,816.00
10-3171-000	Stabilization Aid	0.00	0.00	0.00
10-3193-000	Academic Achievement	0.00	0.00	0.00
Total For Fund 10 - General Fund		0.00	15,406,652.80	11,623,746.00

Copy Current Year Budget into Proposed

CDK Service Cheat Sheet: The AWS Cloud Development Kit (CDK) is an open-source software development framework that allows developers to define cloud infrastructure in code and provision it through AWS CloudFormation. This cheat sheet serves as a quick reference guide for developers who want to leverage CDK to build and manage cloud applications efficiently. By using familiar programming languages, CDK simplifies the process of deploying AWS resources, which can enhance productivity and reduce the complexity associated with infrastructure management.

Introduction to AWS CDK

The AWS CDK is designed to make it easier for developers to work with AWS services by defining their infrastructure using high-level programming constructs. Unlike traditional Infrastructure as Code (IaC) tools that require a deep understanding of JSON or YAML, CDK allows you to use languages like TypeScript, Python, Java, and C.

Key Features of AWS CDK

1. High-Level Abstractions: CDK provides high-level constructs that abstract away much of the complexity. For instance, you can define an Amazon S3 bucket with a single line of code.
2. Programming Language Support: CDK supports multiple programming languages, making it easier for developers to adopt it without the need to learn new syntax.

3. CloudFormation Integration: CDK synthesizes your code into CloudFormation templates, thus leveraging the capabilities of CloudFormation while allowing for greater flexibility.

4. Rich Ecosystem: CDK has a growing library of constructs that cover various AWS services, which can be easily integrated into your applications.

Getting Started with AWS CDK

Before diving into the specifics of the CDK service cheat sheet, it's essential to understand how to get started with CDK.

Prerequisites

- An AWS account
- Installed Node.js (recommended version 10.x or later)
- AWS CLI configured with appropriate credentials

Installation Steps

1. Install the CDK Toolkit:

```
```bash
npm install -g aws-cdk
```
```

2. Create a new CDK project:

```
```bash
mkdir my-cdk-app
cd my-cdk-app
cdk init app --language=typescript
```
```

3. Install dependencies (for example, if you want to use AWS S3):

```
```bash
npm install @aws-cdk/aws-s3
```
```

4. Build the project:

```
```bash
npm run build
```
```

5. Deploy the stack:

```
```bash
cdk deploy
```
```

CDK Constructs and Stacks

Understanding constructs and stacks is crucial for effectively using the CDK.

What are Constructs?

Constructs are the basic building blocks of AWS CDK applications. They represent AWS resources and can be:

- L1 Constructs: Low-level constructs that directly correspond to AWS CloudFormation resources.
- L2 Constructs: Higher-level constructs that provide additional functionality and ease of use.
- L3 Constructs: "Patterns" that combine multiple L2 constructs to create a more complex solution.

Stacks

A stack is a collection of resources that AWS CloudFormation manages as a single unit. In CDK, each stack is defined in a file, and you can have multiple stacks in a single CDK application.

Common AWS Services and Their CDK Constructs

Here's a cheat sheet for some of the most commonly used AWS services and their corresponding CDK constructs.

Amazon S3

- Creating a Bucket:

```
```typescript
import as s3 from '@aws-cdk/aws-s3';

const bucket = new s3.Bucket(this, 'MyBucket', {
 versioned: true,
});
```
```

- Bucket Policies:

```
```typescript
bucket.addToResourcePolicy(new iam.PolicyStatement({
 actions: ['s3:PutObject'],
 resources: [bucket.arnForObjects('')],
 principals: [new iam.AccountPrincipal('123456789012')],
}));
```
```

Amazon Lambda

- Creating a Lambda Function:

```
```typescript
import as lambda from '@aws-cdk/aws-lambda';

const myFunction = new lambda.Function(this, 'MyFunction', {
runtime: lambda.Runtime.NODEJS_14_X,
handler: 'index.handler',
code: lambda.Code.fromAsset('lambda'),
});
```
```

- Triggering Lambda with S3:

```
```typescript
bucket.addEventNotification(s3.EventType.OBJECT_CREATED, new
s3_notifications.LambdaDestination(myFunction));
```
```

Amazon DynamoDB

- Creating a DynamoDB Table:

```
```typescript
import as dynamodb from '@aws-cdk/aws-dynamodb';

const table = new dynamodb.Table(this, 'MyTable', {
partitionKey: { name: 'id', type: dynamodb.AttributeType.STRING },
});
```
```

Amazon API Gateway

- Creating a REST API:

```
```typescript
import as apigateway from '@aws-cdk/aws-apigateway';

const api = new apigateway.RestApi(this, 'MyApi', {
restApiName: 'My Service',
});

const getIntegration = new apigateway.LambdaIntegration(myFunction);
api.root.addMethod('GET', getIntegration);
```
```

Best Practices for Using AWS CDK

1. **Modularize Your Code:** Keep your constructs modular to improve readability and reusability.
2. **Use Context Variables:** Context variables allow you to customize your CDK application based on the environment it is deployed in.
3. **Version Control:** Keep your CDK project in version control to track changes and facilitate team collaboration.
4. **Testing:** Use unit tests to validate that your CDK stacks are defined as expected. This can catch issues before deployment.
5. **Documentation:** Document your constructs and stacks for future reference, especially in collaborative environments.

Conclusion

The CDK service cheat sheet provides a condensed reference for developers looking to utilize AWS CDK effectively. With its high-level abstractions, support for multiple programming languages, and integration with AWS CloudFormation, CDK empowers developers to build robust cloud applications with ease. By understanding constructs, stacks, and commonly used services, you can streamline your workflows and focus on delivering value through your applications. With best practices in mind, you can maximize your productivity and ensure that your infrastructure is maintainable and scalable.

Frequently Asked Questions

What is the purpose of a CDK service cheat sheet?

A CDK service cheat sheet serves as a quick reference guide that provides essential commands, functions, and examples for utilizing the AWS Cloud Development Kit (CDK) effectively.

What are the key components typically included in a CDK service cheat sheet?

Key components often include basic commands, environment setup instructions, common constructs, best practices, and links to official documentation for deeper learning.

How can a CDK service cheat sheet improve development efficiency?

By providing quick access to frequently used commands and patterns, a CDK service cheat sheet helps developers avoid searching through documentation, thus speeding up development and reducing errors.

Is there a difference between a CDK service cheat sheet and official documentation?

Yes, a CDK service cheat sheet is a concise summary designed for quick reference, while official documentation provides comprehensive details, tutorials, and in-depth explanations.

Where can I find a reliable CDK service cheat sheet?

Reliable CDK service cheat sheets can be found in the AWS documentation, community forums, GitHub repositories, or through developer blogs that focus on AWS CDK.

Can I create my own CDK service cheat sheet?

Absolutely! Creating your own CDK service cheat sheet tailored to your specific use cases and frequently used commands can be an excellent way to enhance your productivity and knowledge retention.

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Unlock the power of AWS CDK with our ultimate CDK service cheat sheet! Streamline your development process and boost efficiency. Learn more now!

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