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Amazon CDK training: Define your cloud application resources

2 days (14 hours)

Presentation

Our Amazon CDK training course is an open source cloud development framework that will enable you to create reliable, cost-effective and scalable applications using common programming languages to model your applications...

With the help of our training, you'll be able to create high-level constructs that automatically provide secure default values for your AWS resources, defining more infrastructure with less code.

Consolidate your infrastructure, application code and configuration in one place, ensuring that at every stage you have a complete, deployable system in the cloud.

Share and design reusable components that meet your organization's security, governance and compliance requirements.

This training will focus on the latest version of CDK, version 2.93.0.

Objectives

- Write applications using tools designed for the cloud
- Understanding the CDK principle
- Connect your AWS resources

Target audience

- Network architects

* DevOps

Prerequisites

* Basic knowledge of AWS
* Knowledge of infrastructure concepts

Amazon CDK training program

Introduction to CDK

* What is the Cloud Development Kit?
* Why use CDK?
* Discover the Construct programming model (CPM)
  * CDK for Terraform
  * CDK for Kubernetes
* Authenticate with AWS
* Installing AWS CDK

Constructions to generate an AWS infrastructure

* Buildings
* Reusable elements
* Glue logic
* Modify parameters
* Encoding your own construction

CLI AWS CDK

* cdk init
* cdk synth
* cdk diff
* cdk deploy

Dependency management

* Building libraries
* Updating and installing dependencies
* Project file modification
* Visual Studio NuGet
  * The nuget console
  * The nuget command

Concepts

- Marking
- Environments
- Parameters
- Functionality indicators
- Aspects

AWS CDK toolbox

- Battery specification
- Bootstrapping your AWS environment
- Synthesizing batteries
- Deploying batteries
- Configuration cdk.json

Security

- Identity and access management
- Compliance validation
- Resilience
- Infrastructure safety

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.