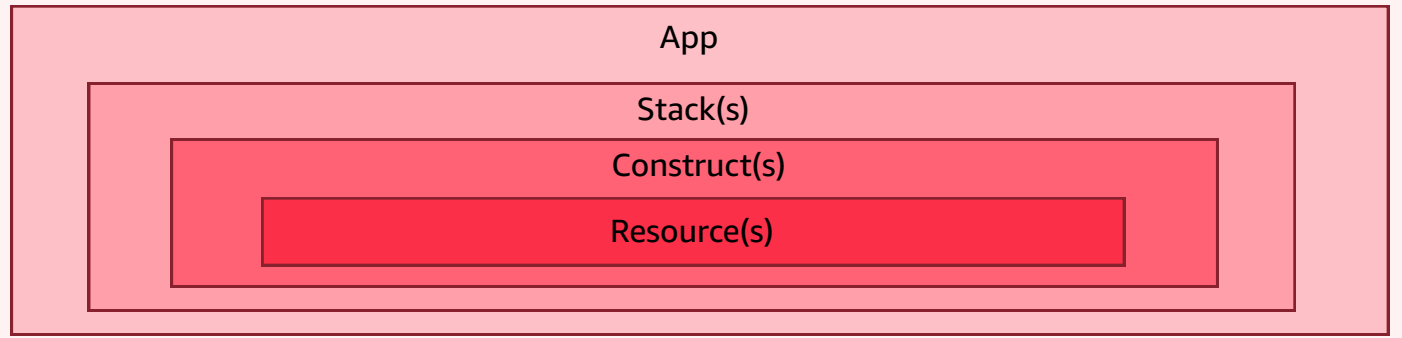


CDK Apps

apps represent a set of stacks deployed across multiple environments. apps can be componentized using constructs which contain resources.



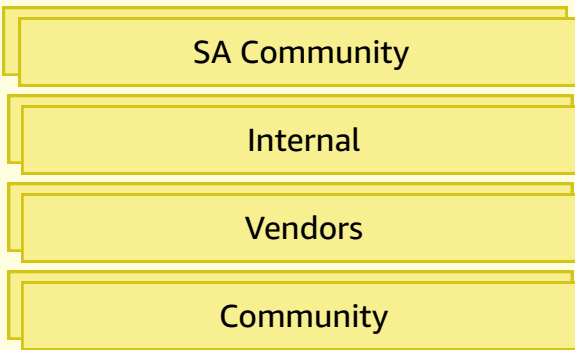
L3: Open ecosystem of purpose-built construct libraries

the solution architect community can publish constructs which represent best practices and common use cases

companies can publish internal construct libraries to reuse best practices

vendors such as twilio can publish constructs backed up by custom resources or transforms

community members can publish constructs



Construct Catalog

an open index of construct libraries with links to language-specific repositories and rich metadata to help developers to make wise choices when using constructs

AWS CDK

Cloud Development Kit

L2: aws-cdk-<service>



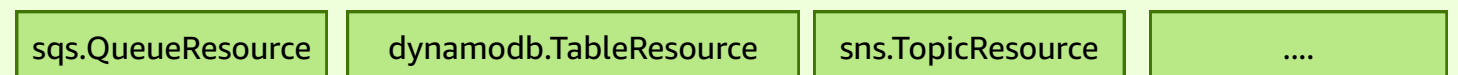
the aws construct libraries are a rich class library of constructs and object models designed to abstract and simplify common tasks for using aws services in the cdk.

resource types, property shapes and attribute types generated from the cloudformation resource model

L1: aws-cdk-resources

CloudFormation Resource Model

code generation

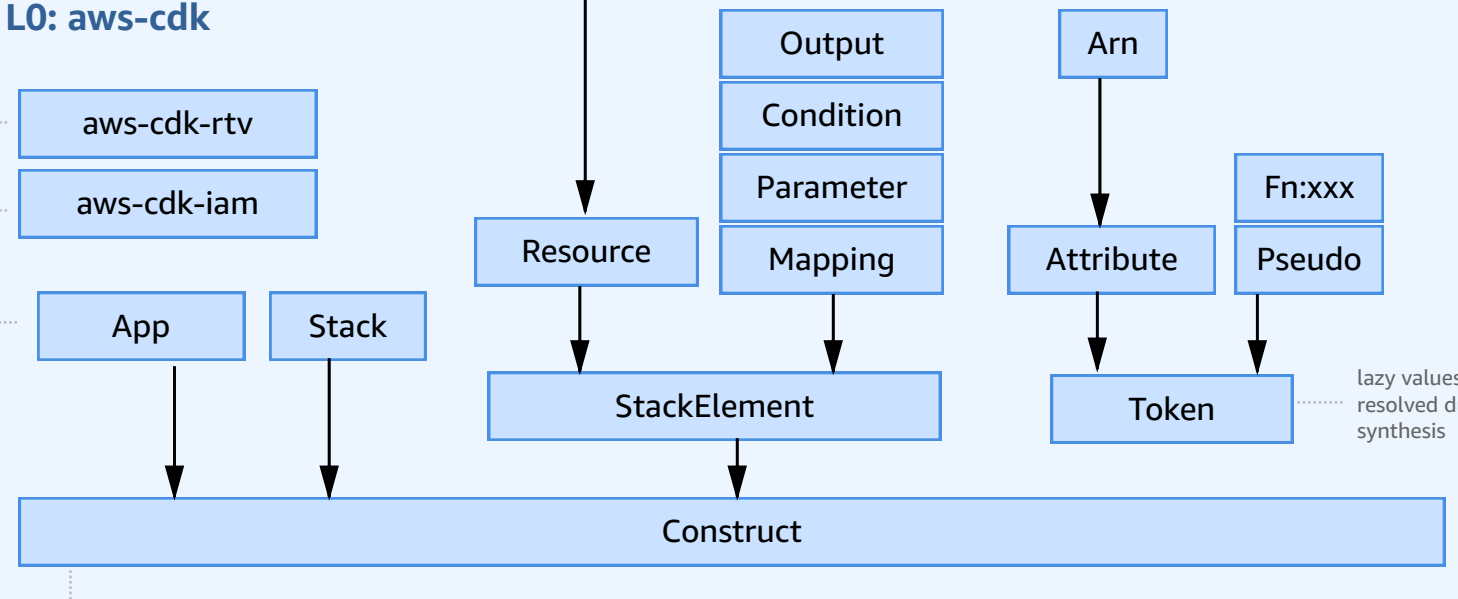


L0: aws-cdk

library for advertising values from CDK apps to runtime code

library for working with IAM policies and documents

CDK apps contain multiple stacks, which can be deployed independently

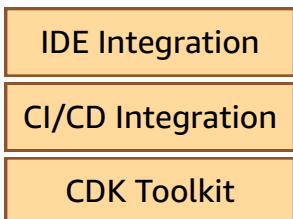


lazy values resolved during synthesis

enables full infrastructure development workflow from within popular IDEs

seamless integration with ci/cd systems such as CodePipelines and TravisCI

interacts with cloud executables to enable development and production deployment use-cases



construct is the basic building block of the CDK component model. constructs form a tree rooted by a Stack