include::attributes.txt[]

// Attributes :https–docs-aws-amazon-com-general-latest-gr-rande-html-regional-endpoints: https://docs.aws.amazon.com/general/latest/gr/rande.html#regional-endpoints :https–aws-amazon-com-about-aws-global-infrastructure-regions-az-: https://aws.amazon.com/about-aws/global-infrastructure/regions\_az/

[.topic] :info\_titleabbrev: Environments :keywords: {aws} CDK, {aws} Cloud Development Kit ({aws} CDK), environment, env, {aws} account, {aws} Region

[#environments] = Environments for the {aws} CDK

== [abstract]

## An environment consists of the {aws} account and {aws} Region that you deploy an {aws} Cloud Development Kit ({aws} CDK) stack to.

// Content start

An environment consists of the {aws} account and {aws} Region that you deploy an {aws} Cloud Development Kit ({aws} CDK) stack to.

*{aws} account*:: When you create an {aws} account, you receive an account ID. This ID is a 12-digit number, such as *012345678901*, that uniquely identifies your account. To learn more, see https://docs.aws.amazon.com/accounts/latest/reference/manage-acct-identifiers.html[View {aws} account identifiers] in the *{aws} Account Management Reference Guide*.

*{aws} Region*:: {aws} Regions are named by using a combination of geographical location and a number that represents an Availability Zone in the Region. For example, *[.noloc]us-east-1* represents an Availability Zone in the US East (N. Virginia) Region. To learn more about {aws} Regions, see https://aws.amazon.com/about-aws/global-infrastructure/regions\_az/[Regions and Availability Zones]. For a list of Region codes, see https://docs.aws.amazon.com/general/latest/gr/rande.html#regional-endpoints[Regional endpoints] in the *{aws} General Reference* Reference Guide.

The {aws} CDK can determine environments from your credentials and configuration files. These files can be created and managed with the {aws} Command Line Interface ({aws} CLI). The following is a basic example of these files:

*Credentials file*:: + [source,toml,subs=“verbatim,attributes”] — [default] aws\_access\_key\_id=ASIAIOSFODNN7EXAMPLE aws\_secret\_access\_key=wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY aws\_session\_token = IQoJb3JpZ2luX2IQoJb3JpZ2luX2IQoJb3JpZ2luX2IQoJb3JpZ2luX2IQoJb3JpZVERYLONGSTRINGEXAMPLE

[user1] aws\_access\_key\_id=ASIAI44QH8DHBEXAMPLE aws\_secret\_access\_key=je7MtGbClwBF/2Zp9Utk/h3yCo8nvbEXAMPLEKEY aws\_session\_token = fcZib3JpZ2luX2IQoJb3JpZ2luX2IQoJb3JpZ2luX2IQoJb3JpZ2luX2IQoJb3JpZVERYLONGSTRINGEXAMPLE —

*Configuration file*:: + [source,toml,subs=“verbatim,attributes”] — [default] region=us-west-2 output=json

[profile user1] region=us-east-1 output=text —

You can pass environment information from these files in your CDK code through environment variables that are provided by the CDK. When you run a CDK CLI command, such as cdk deploy, you then provide the profile from your credentials and configuration files to gather environment information from.

The following is an example of specifying these environment variables in your CDK code:

== [source,javascript,subs=“verbatim,attributes”]

new MyDevStack(app, ‘dev’, { env: { account: process.env.CDK\_DEFAULT\_ACCOUNT, region: process.env.CDK\_DEFAULT\_REGION }}); —

The following is an example of passing values associated with the user1 profile from your credentials and configuration files to the CDK CLI using the --profile option. Values from these files will be passed to your environment variables:

== [source,bash,subs=“verbatim,attributes”]

$ cdk deploy ++++++–profile ++++++—-++++++++++++

Instead of using values from the credentials and configuration files, you can also hard-code environment values in your CDK code. The following is an example:

== [source,javascript,subs=“verbatim,attributes”]

const envEU = { account: ‘238383838383’, region: ‘eu-west-1’ }; const envUSA = { account: ‘837873873873’, region: ‘us-west-2’ };

new MyFirstStack(app, ‘first-stack-us’, { env: envUSA }); new MyFirstStack(app, ‘first-stack-eu’, { env: envEU }); —

[#environments-learn] == Learn more

To get started with using environments with the {aws} CDK, see xref:configure-env[Configure environments to use with the {aws} CDK].