include::attributes.txt[]

// Attributes

[.topic] [#ref-cli-cmd] = {aws} CDK CLI command reference :keywords: {aws} CDK, {aws} CDK CLI, CDK Toolkit, IaC, Infrastructure as code, {aws} Cloud, {aws} CloudFormation

== [abstract]

## This section contains command reference information for the {aws} Cloud Development Kit ({aws} CDK) Command Line Interface (CLI). The CDK CLI is also referred to as the CDK Toolkit.

// Content start

This section contains command reference information for the {aws} Cloud Development Kit ({aws} CDK) Command Line Interface (CLI). The CDK CLI is also referred to as the CDK Toolkit.

[#ref-cli-cmd-usage] == Usage

== [source,none,subs=“verbatim,attributes”]

$ cdk ++++++++++++ ++++++++++++—-++++++++++++

[#ref-cli-cmd-commands] == Commands

[#ref-cli-cmd-commands-acknowledge] xref:ref-cli-cmd-ack[acknowledge ack]:: Acknowledge a notice by issue number and hide it from displaying again.

[#ref-cli-cmd-commands-bootstrap] xref:ref-cli-cmd-bootstrap[bootstrap]:: Prepare an {aws} environment for CDK deployments by deploying the CDK bootstrap stack, named CDKToolkit, into the {aws} environment.

[#ref-cli-cmd-commands-context] xref:ref-cli-cmd-context[context]:: Manage cached context values for your CDK application.

[#ref-cli-cmd-commands-deploy] xref:ref-cli-cmd-deploy[deploy]:: Deploy one or more CDK stacks into your {aws} environment.

[#ref-cli-cmd-commands-destroy] xref:ref-cli-cmd-destroy[destroy]:: Delete one or more CDK stacks from your {aws} environment.

[#ref-cli-cmd-commands-diff] xref:ref-cli-cmd-diff[diff]:: Perform a diff to see infrastructure changes between CDK stacks.

[#ref-cli-cmd-commands-docs] xref:ref-cli-cmd-docs[docs doc]:: Open CDK documentation in your browser.

[#ref-cli-cmd-commands-doctor] xref:ref-cli-cmd-doctor[doctor]:: Inspect and display useful information about your local CDK project and development environment.

[#ref-cli-cmd-commands-drift] xref:ref-cli-cmd-drift[drift]:: Detect configuration drift for resources that you define, manage, and deploy using CDK.

[#ref-cli-cmd-commands-import] xref:ref-cli-cmd-import[import]:: Use {aws} CloudFormation resource imports to import existing {aws} resources into a CDK stack.

[#ref-cli-cmd-commands-init] xref:ref-cli-cmd-init[init]:: Create a new CDK project from a template.

[#ref-cli-cmd-commands-list] xref:ref-cli-cmd-list[list, ls]:: List all CDK stacks and their dependencies from a CDK app.

[#ref-cli-cmd-commands-metadata] xref:ref-cli-cmd-metadata[metadata]:: Display metadata associated with a CDK stack.

[#ref-cli-cmd-commands-migrate] xref:ref-cli-cdk-migrate[migrate]:: Migrate {aws} resources, {aws} CloudFormation stacks, and {aws} CloudFormation templates into a new CDK project.

[#ref-cli-cmd-commands-notices] xref:ref-cli-cmd-notices[notices]:: Display notices for your CDK application.

[#ref-cli-cmd-commands-synthesize] xref:ref-cli-cmd-synth[synthesize, synth]:: Synthesize a CDK app to produce a cloud assembly, including an {aws} CloudFormation template for each stack.

[#ref-cli-cmd-commands-watch] xref:ref-cli-cmd-watch[watch]:: Continuously watch a local CDK project for changes to perform deployments and hotswaps.

[#ref-cli-cmd-options] == Global options

The following options are compatible with all CDK CLI commands.

[#ref-cli-cmd-options-app] --app, -a <STRING>:: Provide the command for running your app or cloud assembly directory. + *Required*: Yes

[#ref-cli-cmd-options-asset-metadata] --asset-metadata <BOOLEAN>:: Include aws:asset:\* {aws} CloudFormation metadata for resources that use assets. + *Required*: No + *Default value*: true

[#ref-cli-cmd-options-build] --build <STRING>:: Command for running a pre-synthesis build. + *Required*: No

[#ref-cli-cmd-options-ca-bundle-path] --ca-bundle-path <STRING>:: Path to a CA certificate to use when validating HTTPS requests. + If this option is not provided, the CDK CLI will read from the AWS\_CA\_BUNDLE environment variable. + *Required*: Yes

[#ref-cli-cmd-options-ci] --ci <BOOLEAN>:: Indicate that CDK CLI commands are being run in a continuous integration (CI) environment. + This option modifies the behavior of the CDK CLI to better suit automated operations that are typical in CI pipelines. + When you provide this option, logs are sent to stdout instead of stderr. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-context] --context, -c <ARRAY>:: Add contextual string parameters as key-value pairs.

[#ref-cli-cmd-options-debug] --debug <BOOLEAN>:: Enable detailed debugging information. This option produces a verbose output that includes a lot more detail about what the CDK CLI is doing behind the scenes. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-ec2creds] --ec2creds, -i <BOOLEAN>:: Force the CDK CLI to try and fetch Amazon EC2 instance credentials. + By default, the CDK CLI guesses the Amazon EC2 instance status. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-help] --help, -h <BOOLEAN>:: Show command reference information for the CDK CLI. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-ignore-errors] --ignore-errors <BOOLEAN>:: Ignore synthesis errors, which will likely produce an output that is not valid. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-json] --json, -j <BOOLEAN>:: Use JSON instead of YAML for {aws} CloudFormation templates that are printed to standard output (stdout). + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-lookups] --lookups <BOOLEAN>:: Perform context lookups. + Synthesis will fail if this value is false and context lookups need to be performed. + *Required*: No + *Default value*: true

[#ref-cli-cmd-options-no-color] --no-color <BOOLEAN>:: Remove color and other styling from the console output. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-notices] --notices <BOOLEAN>:: Show relevant notices. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-output] --output, -o <STRING>:: Specify the directory to output the synthesized cloud assembly to. + *Required*: Yes + *Default value*: cdk.out

[#ref-cli-cmd-options-path-metadata] --path-metadata <BOOLEAN>:: Include aws::cdk::path {aws} CloudFormation metadata for each resource. + *Required*: No + *Default value*: true

[#ref-cli-cmd-options-plugin] --plugin, -p <ARRAY>:: Name or path of a node package that extends CDK features. This option can be provided multiple times in a single command. + You can configure this option in the project’s cdk.json file or at ~/.cdk.json on your local development machine: + [source,json,subs=“verbatim,attributes”] — { // … “plugin”: [ “module\_1”, “module\_2” ], // … } — + *Required*: No

[#ref-cli-cmd-options-profile] --profile <STRING>:: Specify the name of the {aws} profile, containing your {aws} environment information, to use with the CDK CLI. + *Required*: Yes

[#ref-cli-cmd-options-proxy] --proxy <STRING>:: Use the indicated proxy. + If this option is not provided, the CDK CLI will read from the HTTPS\_PROXY environment variable. + *Required*: Yes + *Default value*: Read from HTTPS\_PROXY environment variable.

[#ref-cli-cmd-options-role-arn] --role-arn, -r <STRING>:: The ARN of the IAM role that the CDK CLI will assume when interacting with {aws} CloudFormation. + *Required*: No

[#ref-cli-cmd-options-staging] --staging <BOOLEAN>:: Copy assets to the output directory. + Specify false to prevent the copying of assets to the output directory. This allows the {aws} SAM CLI to reference the original source files when performing local debugging. + *Required*: No + *Default value*: true

[#ref-cli-cmd-options-strict] --strict <BOOLEAN>:: Do not construct stacks that contain warnings. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-trace] --trace <BOOLEAN>:: Print trace for stack warnings. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-verbose] --verbose, -v <COUNT>:: Show debug logs. You can specify this option multiple times to increase verbosity. + *Required*: No

[#ref-cli-cmd-options-version] --version <BOOLEAN>:: Show the CDK CLI version number. + *Required*: No + *Default value*: false

[#ref-cli-cmd-options-version-reporting] --version-reporting <BOOLEAN>:: Include the +{aws}::CDK::Metadata+ resource in synthesized {aws} CloudFormation templates. + *Required*: No + *Default value*: true

[#ref-cli-cmd-configure] == Providing and configuring options

You can pass options through command-line arguments. For most options, you can configure them in a cdk.json configuration file. When you use multiple configuration sources, the CDK CLI adheres to the following precedence:

. *Command-line values* – Any option provided at the command-line overrides options configured in cdk.json files. . *Project configuration file* – The cdk.json file in your CDK project’s directory. . *User configuration file* – The cdk.json file located at ~/.cdk.json on your local machine.

[#ref-cli-cmd-pass] == Passing options at the command line

[#ref-cli-cmd-pass-bool] *Passing boolean values*:: + For options that accept a boolean value, you can specify them in the following ways: +

* Use true and false values – Provide the boolean value with the command. The following is an example:

## [source,none,subs=“verbatim,attributes”]

* $ cdk deploy –watch=true $ cdk deploy –watch=false —
* Provide the option’s counterpart – Modify the option name by adding no to specify a false value. The following is an example:

## [source,none,subs=“verbatim,attributes”]

* $ cdk deploy –watch $ cdk deploy –no-watch —
* For options that default to true or false, you don’t have to provide the option unless you want to change from the default.

include::ref-cli-cmd-ack.adoc[leveloffset=+1]

include::ref-cli-cmd-bootstrap.adoc[leveloffset=+1]

include::ref-cli-cmd-context.adoc[leveloffset=+1]

include::ref-cli-cmd-deploy.adoc[leveloffset=+1]

include::ref-cli-cmd-destroy.adoc[leveloffset=+1]

include::ref-cli-cmd-diff.adoc[leveloffset=+1]

include::ref-cli-cmd-docs.adoc[leveloffset=+1]

include::ref-cli-cmd-doctor.adoc[leveloffset=+1]

include::ref-cli-cmd-drift.adoc[leveloffset=+1]

include::ref-cli-cmd-gc.adoc[leveloffset=+1]

include::ref-cli-cmd-import.adoc[leveloffset=+1]

include::ref-cli-cmd-init.adoc[leveloffset=+1]

include::ref-cli-cmd-list.adoc[leveloffset=+1]

include::ref-cli-cmd-metadata.adoc[leveloffset=+1]

include::ref-cli-cmd-migrate.adoc[leveloffset=+1]

include::ref-cli-cmd-notices.adoc[leveloffset=+1]

include::ref-cli-cmd-rollback.adoc[leveloffset=+1]

include::ref-cli-cmd-synth.adoc[leveloffset=+1]

include::ref-cli-cmd-watch.adoc[leveloffset=+1]