

AWS CloudFormation Cheat Sheet

by forrestbrazeal via cheatography.com/62457/cs/16025/

Template Anatomy	
Resources	Mappings
Description	Conditions
Metadata	Transform
Parameters	Outputs
A Resources section is required.	·

Intrinsic Functions Syntax	
YAML Shorthand	! Ref arg
YAML	Fn::Ref arg
JSON	{ "Fn::Ref": arg }

Common Intrinsic Functions	
!FindInMap [Map,	Returns values of keys in 2-level
TopLevelKey,	map declared in Mappings section
SecondLevelKey]	
!GettAtt a.Arn	Get Arn attribute of resource a in
	this stack
!ImportValue a	Reference export a from another
	stack
!Join [':',['a','b']]	Produces 'a:b'
!Ref a	Get value of parameter or resource
	a in this stack
!Select ['1',['a','b']]	Produces 'b'
!Split [':', 'a:b']	Produces ['a', 'b']
!Sub 'a-\${b}'	Inject the value of b into a string

You can't nest the shorthand YAML functions. You must do:

Fn::ImportValue: !Sub "\${a}-b" not!ImportValue !Sub "\${a}-b"

Transforms

'Fn::Transform':

- Name: 'AWS::Include'

Parameters:

Location: s3://bucket/snippet.yml

Use an Include transform to reference a template snippet stored separately from the main CloudFormation template.

Custom Resources

Use the AWS::CloudFormation::CustomResourceOr

Custom::String resource type to define custom resources.

To create a custom resource, you need:

- A template that includes a custom resource type.
- A custom resource provider with a service token that the template developer uses.

During a stack operation, CloudFormation sends a request to a service token specified in the template, then waits for a response before proceeding.

Common Pseudo Parameters		
AWS::AccountId	12-digit AWS account	
AWS::NoValue	Use in conditionals	
AWS::Region	Deployment region	
AWS::StackId	ARN of the current stack	
AWS::StackName	Name of the current stack	
Reference pseudo parameters just like regular parameters, e.g.!Ref		
AWS::Region		

Condition Functions	
!Equals ['a', 'b']	false
!And [!Equals ['a', 'a'], !Equals ['a', 'b']]	false
!Or [!Equals ['a', 'a'], !Equals ['a', 'b']]	true
!Not [!Equals ['a', 'a']]	false
!If [condition, 100, 10]	100 if condition is true, else 10

Export Outputs

Outputs:

MyVPCOutput:

Value: !Ref VPCResource

Export:

Name: !Sub "\${AWS::StackName}-VPCID"

- For each AWS account, Export names must be unique within a region.
- You can't create cross-stack references across regions.
- You can't delete a stack if another stack references one of its outputs.



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