

Testing configuration in YAML

Aurelijus Banelis





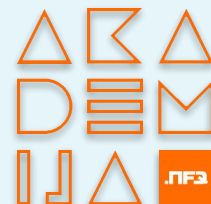
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Backend/DevOps

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PGP 0x320205E7**539B6203**
130D C446 1F1A 2E50 D6E3
3DA8 3202 05E7 539B 6203





DevOps

YAML

Python

AWS CloudFormation

Model and provision all your cloud infrastructure resources



Context Problem Solution

AWS CloudFormation

User Guide (API Version 2010-05-15)

Documentation - This Guide

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+ What is AWS CloudFormation?

+ Setting Up

+ Getting Started

Parameters:

Location: 's3://MyAmazonS3BucketName/MyFileName.yaml'

Syntax When the Transform Is Embedded Within a Section of a

To include a transform that is embedded within a section, use the F

AWS CloudFormation

Model and provision all your cloud infrastructure resources



AWS CloudFormation



User Guide (API Version 2010-05-15)

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YAML

Transform:

Name: 'AWS::Include'

Parameters:

Location: 's3://MyAmazonS3BucketName/MyFileName.yaml'

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AWS::Include



AWS::Include



AWS::Include



AWS::Include



AWS::Include



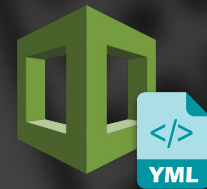
AWS::Include



AWS::Include



AWS::Include



Examples

To validate an AWS CloudFormation template

The following `validate-template` command validates the `sampletemplate.json` template:

```
aws cloudformation validate-template --cli-input-json body file://sampletemplate.json
```

Context

Problem 1/2

Solution



Examples

To validate an AWS CloudFormation template

The following `validate-template` command validates the `sampletemplate.json` template:

```
aws cloudformation validate-template --template-body file://sampletemplate.json
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AWS::Include



AWS::Include

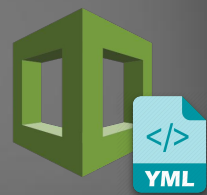


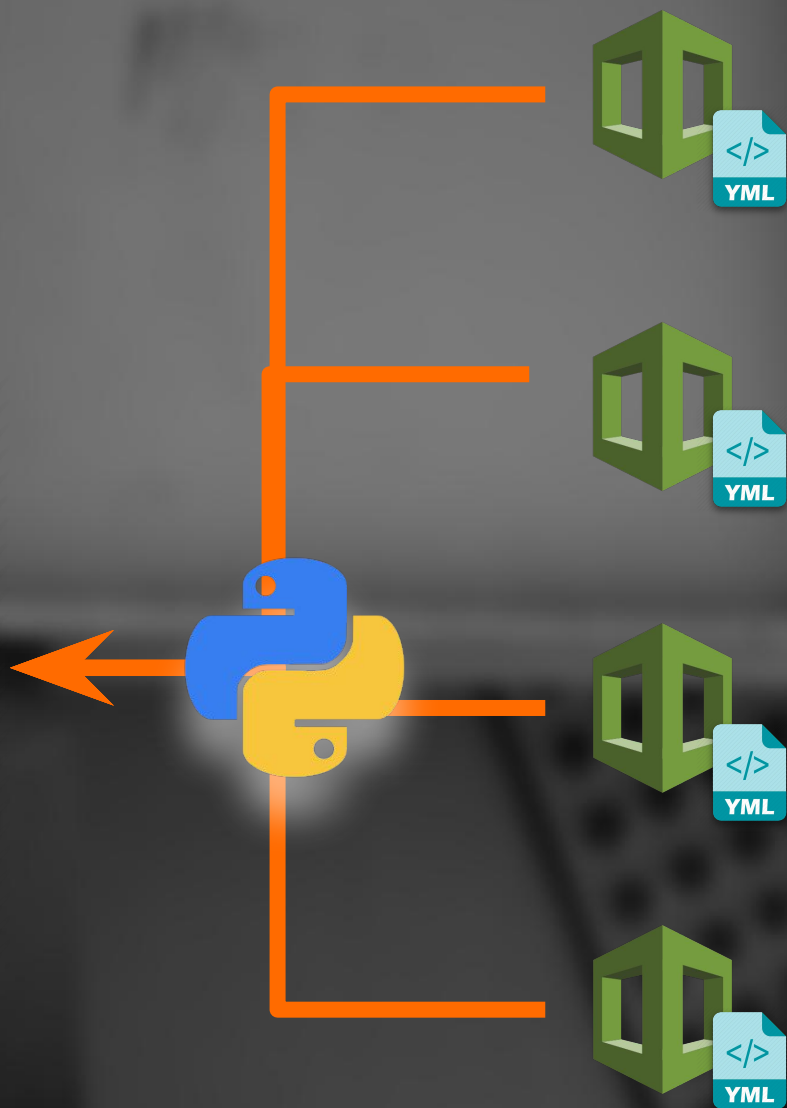
AWS::Include



Context Problem 1/2 Solution





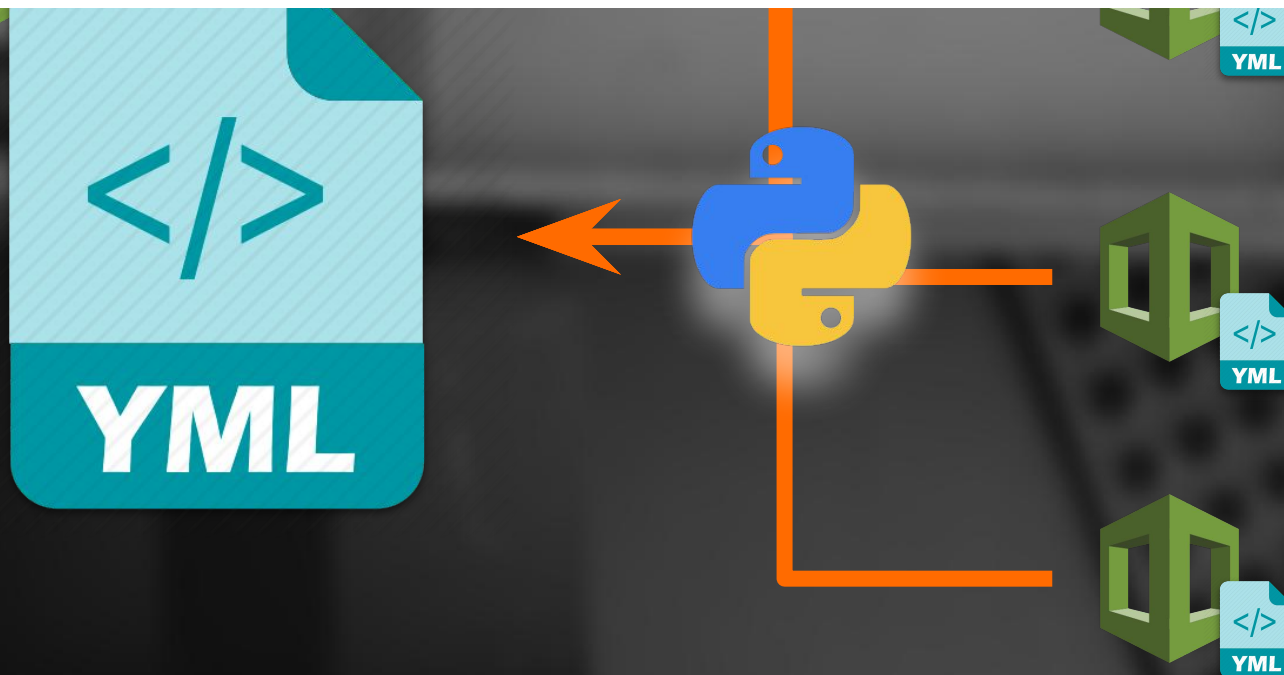


Examples

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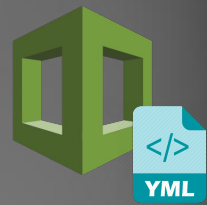
```
aws cloudformation validate-template --cli-input-json body file://sampletemplate.json
```

Context

Problem 2/2

Solution





```

# Depends on:
# Depends on:
# Depends on:
1  # Depends on:
2  # alb.yml
3  # -- ALB
4
5  # Parameters:
6  #   ALBHostedZoneName:
7  #     Type: String
8  #     Description: "DNS Hosted zone for DNS Alias"
9  #   ALBDnsName:
10 #     Type: String
11 #     Description: "DNS Alias Name"
12
13 #Resources:
14 ALBDnsAlias:

```

Outdated?

```
1 # Depends on:
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```



YML



YML



YML



YML

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PyYAML 5.1

[Latest version](#)

```
pip install PyYAML
```



Last released: Mar 13, 2019

YAML parser and emitter for Python

Name: **import yaml** Description:



Project description



Release history



Download files

Project links



Homepage

YAML is a data serialization format designed for human readability and interaction with scripting languages. PyYAML is a YAML parser and emitter for Python.

PyYAML features a complete YAML 1.1 parser, Unicode support, pickle support, capable extension API, and sensible error messages. PyYAML supports standard YAML tags and provides Python-specific tags that allow to represent an arbitrary Python object.

PyYAML is applicable for a broad range of tasks from complex configuration files to object serialization and persistence.

```
TaskRoleArn: !GetAtt ECSTaskRole.Arn
ContainerDefinitions:
```



YAML parser and emitter for Python

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Project description

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Examples

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The following `validate-template` command validates the `sampletemplate.json` template:

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```

Context Problem Solution




```
TaskRoleArn: !GetAtt ECSTaskRole.Arn
ContainerDefinitions:
```



```
from ruamel.yaml import YAML
```

YAML parser and emitter for Python

Navigation

Project description

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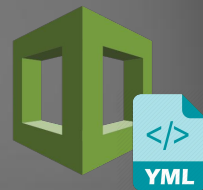
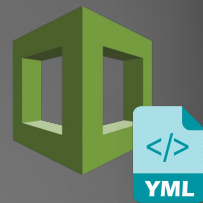
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Project links

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All checks have passed

7 successful checks

- | | | | |
|---|--|---|-------------------------|
| ✓ |  | ci/circleci: check-dependencies — Your test... | Details |
| ✓ |  | ci/circleci: check-dependencies — Your tests passed on ... | Details |
| ✓ |  | ci/circleci: check-markdown — Your tests passed o... | Details |
| ✓ |  | ci/circleci: check-parameter-versions — Your test... | Details |

Testing Small tools, but Confidence Faster

Aurelijus Banelis

