better-boto

Release 0.5.20

eamonn faherty

CONTENTS:

	 	• • •	 	 		 	 	 				
	 										 •	
			 	 	•	 	 	 				
'S												
	 		 	 		 	 	 			 •	
	 		 	 		 	 	 			 •	
3												
												;

Better Boto aims to reduce the burden of using AWS Boto3. AWS Boto3 is a low level SDK for interacting with AWS Services and sometimes it feels too low level or too crud like.

Better Boto is a collection of helper functions to make using AWS Boto easier. For example, it added a create_or_update method to the AWS CloudFormation client. It also provides some helpers for dealing with pagination operations and some help using AWS Organizations. Check out the API for more info.

CONTENTS: 1

2 CONTENTS:

ONE

CLIENT

1.1 What is this?

With the following clients you can use them as context managers and they provide extra functionality for you. Each client is documented below:

1.2 Classes

```
class betterboto.client.ClientContextManager(service_name, **kwargs)
```

ClientContextManager allows you to use boto3 client as a python context manager. This allows you to perform the following:

```
with ClientContextManager('cloudformation') as cloudformation_client:
    cloudformation_client.create_stack(**args)
```

CrossAccountClientContextManager allows you to use boto3 client as a python context manager for another account. This allows you to perform the following:

```
with CrossAccountClientContextManager(
    'cloudformation',
    'arn:aws:iam::0123456789010:role/deployer',
    'deployment_account_session',
) as deployment_account_cloudformation:
    deployment_account_cloudformation.create_stack(**args)
```

MultiRegionClientContextManager allows you to use boto3 client as a python context manager for multiple regions. This allows you to perform the following:

If you want to deploy to multiple regions at the same time then you should use Python Threads

4 Chapter 1. Client

TWO

CLOUDFORMATION HELPERS

2.1 What is this?

The following methods are added to clients instantiated using Betterboto:

2.2 Methods

betterboto.cloudformation.create_or_update(self, **kwargs)

For the given template and stack name, this method will create a stack if it doesnt already exist otherwise it will generate a changeset and then execute it. This method will wait for the operation to complete before returning and in the instance of an error it will print out the stack events to help you debug more easily.

Parameters

- self cloudformation client
- **kwargs** these are passed onto the create_stack and create_change_set method calls

Returns None

THREE

ORGANIZATIONS HELPERS

3.1 What is this?

The following methods are added to clients instantiated using Betterboto:

3.2 Methods

betterboto.organizations.convert_path_to_ou(self, ou)

This method accepts an ou and returns the path from the root account down to the ou

Parameters

- **self** organizations client
- ou the account

Returns the path from the root account down to the ou

betterboto.organizations.list children nested(self, **kwargs)

This method will return a list of all children (either ACCOUNT or ORGANIZATIONAL_UNIT) for the given ParentId. It includes children, grandchildren lower levels of nesting.

Parameters

- self organizations client
- **kwargs** these are passed onto the list_children method call

Returns list of children in the structure of [{'Id': "0123456789010"}, {'Id': "1009876543210"}]

betterboto.organizations.list children single page (self, **kwargs)

This will continue to call list_children until there are no more pages left to retrieve. It will return the aggregated response in the same structure as list_children does.

Parameters

- self organizations client
- **kwargs** these are passed onto the list_children method call

Returns organizations_client.list_children.response

FOUR

SERVICE CATALOG HELPERS

4.1 What is this?

The following methods are added to clients instantiated using Betterboto:

4.2 Methods

betterboto.servicecatalog.list_portfolios_single_page(self, **kwargs)

This will continue to call list_portfolios until there are no more pages left to retrieve. It will return the aggregated response in the same structure as list_portfolios does.

Parameters

- self servicecatalog client
- **kwargs** these are passed onto the list_portfolios method call

Returns servicecatalog_client.list_portfolios.response

betterboto.servicecatalog.list_provisioning_artifacts_single_page (self,

**kwargs)

This will continue to call list_provisioning_artifacts until there are no more pages left to retrieve. It will return the aggregated response in the same structure as list_provisioning_artifacts does.

Parameters

- self servicecatalog client
- **kwargs** these are passed onto the list_provisioning_artifacts method call

Returns servicecatalog_client.list_provisioning_artifacts.response

betterboto.servicecatalog.search_products_as_admin_single_page(self, **kwargs)

This will continue to call search_products_as_admin until there are no more pages left to retrieve. It will return the aggregated response in the same structure as search_products_as_admin does.

Parameters

- self servicecatalog client
- **kwargs** these are passed onto the search products as admin method call

Returns servicecatalog_client.search_products_as_admin.response

PYTHON MODULE INDEX

b

betterboto.client, 3 betterboto.cloudformation, 5 betterboto.organizations, 7 betterboto.servicecatalog, 9

12 Python Module Index

INDEX

```
В
betterboto.client (module), 3
betterboto.cloudformation (module), 5
betterboto.organizations (module), 7
betterboto.servicecatalog(module),9
ClientContextManager (class in betterboto.client),
convert_path_to_ou()
                           (in module
                                         better-
        boto.organizations), 7
create_or_update()
                         (in
                               module
                                         better-
        boto.cloudformation), 5
CrossAccountClientContextManager (class in
        betterboto.client), 3
list_children_nested() (in module better-
        boto.organizations), 7
list_children_single_page() (in module bet-
        terboto.organizations), 7
list_portfolios_single_page() (in module
        betterboto.servicecatalog), 9
list_provisioning_artifacts_single_page()
        (in module betterboto.servicecatalog), 9
M
MultiRegionClientContextManager (class in
        betterboto.client), 3
S
search_products_as_admin_single_page()
        (in module betterboto.servicecatalog), 9
```