better-boto

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eamonn faherty

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CHAPTER

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)
```

class betterboto.client.**CrossAccountClientContextManager**(*service_name*, *role_arn*, *role_session_name*, ***kwargs*)

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)
```

class betterboto.client.**MultiRegionClientContextManager**(*service_name*, *regions*, ***kwargs*)

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

```
with MultiRegionClientContextManager('cloudformation', ['us-east-1','eu-west-1'])␣
↪as cloudformation_clients:
    for region_name, cloudformation_client in cloudformation_clients.items():
        cloudformation_client.create_stack(**args)
```

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

CHAPTER

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

CHAPTER

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

CHAPTER

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

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