

Package ‘aws.cloudtrail’

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Type Package

Title AWS CloudTrail Client Package

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Description A simple client package for the Amazon Web Services ('AWS') 'CloudTrail' 'API' <<https://aws.amazon.com/cloudtrail/>>.

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Imports utils, httr, jsonlite, aws.s3 (>= 0.1.34), aws.signature (>= 0.3.4)

Suggests testthat, aws.sns

URL <https://github.com/cloudyr/aws.cloudtrail>

BugReports <https://github.com/cloudyr/aws.cloudtrail/issues>

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```
aws.cloudtrail-package
    aws.cloudtrail
```

Description

AWS CloudTrail Client Package

Details

A simple client package for the Amazon Web Services AWS CloudTrail REST API.

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References

<http://docs.aws.amazon.com/awsccloudtrail/latest/userguide/cloudtrail-user-guide.html>

```
cloudtrailHTTP    cloudtrailHTTP
```

Description

AWS Cloudtrail API Requests

Usage

```
cloudtrailHTTP(query, body = NULL, headers = list(),
  version = "2013-11-01", region = Sys.getenv("AWS_DEFAULT_REGION",
  "us-east-1"), key = NULL, secret = NULL, session_token = NULL, ...)
```

Arguments

query	A list.
body	The body of the request.
headers	A list of headers to pass to the REST request.
version	A character string specifying the API version.
region	A character string containing the AWS region. If missing, defaults to the value of environment variable 'AWS_DEFAULT_REGION'.
key	A character string containing an AWS Access Key ID. If missing, defaults to value stored in environment variable "AWS_ACCESS_KEY_ID".

secret	A character string containing an AWS Secret Access Key. If missing, defaults to value stored in environment variable “AWS_SECRET_ACCESS_KEY”.
session_token	Optionally, a character string containing an AWS temporary Session Token. If missing, defaults to value stored in environment variable “AWS_SESSION_TOKEN”.
...	Additional arguments passed to POST .

Details

This is the workhorse function for executing Cloudtrail API requests. It is typically not necessary to call this function directly.

Value

A list.

cloudtrail_s3policy *Example Policies for CloudTrail*

Description

Construct an S3 or SNS policy document for use with CloudTrail

Usage

```
cloudtrail_s3policy(bucket, account_id, prefix = NULL)
```

```
cloudtrail_snsolicy(topic)
```

Arguments

bucket	A character string containing an S3 bucket name, or an object of class “s3_bucket”.
account_id	A character string containing an AWS account ID.
prefix	Optionally, a character string containing the prefix for the Account ID. This can be retrieved from the AWS console or via a call to <code>aws.iam::get_caller_identity()</code> .
topic	A character string specifying the SNS topic ARN.

Value

A character string containing the policy

 create_trail

Trails

Description

Create, update, or delete a Cloudtrail

Usage

```
create_trail(name, bucket, log_group = NULL, log_role = NULL,
             global = FALSE, multi_region = FALSE, key_prefix = NULL,
             sns_topic = NULL, kms = NULL, ...)
```

```
update_trail(name, bucket = NULL, log_group = NULL, log_role = NULL,
             global = NULL, key_prefix = NULL, sns_topic = NULL, ...)
```

```
delete_trail(name, ...)
```

Arguments

name	A character string specifying the name of a Cloudtrail or the ARN for a Cloudtrail, or an object of class “aws_cloudtrail”.
bucket	A character string specifying the name of an S3 bucket to deposit Cloudtrail logs into. AWS recommends this be a dedicated bucket exclusively for Cloudtrail logs. In order to succeed, the bucket must have an appropriate policy (see documentation).
log_group	Optionally, a character string specifying a log group name using an Amazon Resource Name (ARN), a unique identifier that represents the log group to which CloudTrail logs will be delivered.
log_role	Optionally, a character string specifying the role for the CloudWatch Logs endpoint to assume to write to a user’s log group.
global	Specifies whether the trail is publishing events from global services such as IAM to the log files.
multi_region	A logical specifying whether the trail will cover all regions (TRUE) or only the region in which the trail is created (FALSE).
key_prefix	Optionally, a prefix for the log file names created by the trail.
sns_topic	Optionally, a character string specifying an AWS SNS topic, to which notifications will be sent when each new log file is created.
kms	Optionally, a character string specifying a Key Management Service (KMS) key alias (of the form “alias/KEYALIAS”) or ARN to be used to encrypt logs.
...	Additional arguments passed to cloudtrailHTTP .

Details

create_trail sets up a trail to log requests into a specified S3 bucket. A maximum of five trails can exist in a region. update_trail can update specific details for a trail. The trail can be active at the time. delete_trail deletes a trail.

Value

For create_trail and update_trail, a list. For delete_trail, a logical.

References

http://docs.aws.amazon.com/awsccloudtrail/latest/APIReference/API_CreateTrail.html

http://docs.aws.amazon.com/awsccloudtrail/latest/APIReference/API_UpdateTrail.html

http://docs.aws.amazon.com/awsccloudtrail/latest/APIReference/API_DeleteTrail.html

See Also

[get_trails](#), [trail_status](#), [start_logging](#)

Examples

```
## Not run:
require("aws.s3")
# create a bucket
mybucket <- "mycloudtrailbucket"
stopifnot(put_bucket(mybucket))
# set bucket policy for CloudTrail
ctpolicy <- cloudtrail_s3policy(mybucket, "my_aws_id")
stopifnot(put_bucket_policy(mybucket, policy = ctpolicy))

# create a trail
trail <- create_trail("exampletrail", mybucket)
# confirm trail created
get_trails()

# start/stop logging to the trail
start_logging(trail)
stop_logging(trail)

# check trail status
trail_status(trail)

# delete trail
delete_trail(trail)

## End(Not run)
```

get_trails	<i>get_trails</i>
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Description

Get list of trails

Usage

```
get_trails(...)
```

Arguments

... Additional arguments passed to [cloudtrailHTTP](#).

Details

Get a list of available cloudtrails.

Value

A list of objects of class “aws_cloudtrail”.

References

http://docs.aws.amazon.com/awsccloudtrail/latest/APIReference/API_DescribeTrails.html

See Also

[create_trail](#)

Examples

```
## Not run:  
get_trails()  
  
## End(Not run)
```

start_logging	<i>logging</i>
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Description

Start/stop logging

Usage

```
start_logging(name, ...)
```

```
stop_logging(name, ...)
```

Arguments

name A character string specifying the name of a Cloudtrail or the ARN for a Cloudtrail, or an object of class "aws_cloudtrail".

... Additional arguments passed to [cloudtrailHTTP](#).

Details

start_logging starts a

References

http://docs.aws.amazon.com/awsccloudtrail/latest/APIReference/API_StartLogging.html,
http://docs.aws.amazon.com/awsccloudtrail/latest/APIReference/API_StopLogging.html

See Also

[create_trail](#), [trail_status](#)

Examples

```
## Not run:
require("aws.s3")
# create a bucket
mybucket <- "mybucket_for_cloudtrail"
stopifnot(put_bucket(mybucket))

# create a trail
trail <- create_trail("exampletrail", mybucket)
# confirm trail created
get_trails()

# start/stop logging to the trail
start_logging(trail)
stop_logging(trail)
```

```
# check trail status
trail_status(trail)

# delete trail
delete_trail(trail)

## End(Not run)
```

trail_status	<i>trail_status</i>
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Description

Get trail status/history

Usage

```
trail_status(name, ...)
```

Arguments

name	A character string specifying the name of a Cloudtrail or the ARN for a Cloudtrail, or an object of class “aws_cloudtrail”.
...	Additional arguments passed to cloudtrailHTTP .

Details

This function returns full details and history for a trail, including errors and logging start/stop times.

Value

A list.

References

http://docs.aws.amazon.com/awsccloudtrail/latest/APIReference/API_GetTrailStatus.html

See Also

[get_trails](#), [start_logging](#), [create_trail](#)

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