Package 'aws.alexa'

October 12, 2022

Title Client for the Amazon Alexa Web Information Services API

Version 0.1.8

Description Use the Amazon Alexa Web Information Services API to
find information about domains, including the kind of content
that they carry, how popular are they---rank and traffic history,
sites linking to them, among other things. See <https://aws.amazon.com/awis/>
for more information.

Imports httr, aws.signature, xml2, dplyr

Suggests testthat, rmarkdown, knitr (>= 1.11), lintr

VignetteBuilder knitr

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R topics documented:

aws.alexa-package   *aws.alexa: R Client for the Alexa Web Information Services API*

Description

Find information about domains, including the kind of content that they carry, how popular are they, sites linking to them, among other things. The package provides access to the Alexa Web Information Service API: <https://docs.aws.amazon.com/AlexaWebInfoService/latest/>.

To learn how to use aws.alexa, see this vignette: <https://CRAN.R-project.org/package=aws.alexa/vignettes/overview.html>.

You need to get credentials (Access Key ID and Secret Access Key) to use this application. If you haven't already, get these at <https://aws.amazon.com/>. And set these using <code>set_secret_key</code>

Author(s)

Gaurav Sood

alexa_check   *Request Response Verification*

Description

Request Response Verification

Usage

```
alexa_check(req)
```

Arguments

req   request

Value

in case of failure, a message

---

alexa_GET *Base POST AND GET functions. Not exported.*

Description

GET

Usage

```
alexa_GET(
  query,
  key = Sys.getenv("AWS_ACCESS_KEY_ID"),
  secret = Sys.getenv("AWS_SECRET_ACCESS_KEY"),
  verbose = getOption("verbose", FALSE),
  session_token = NULL,
  region = "us-west-1",
  headers = list(),
  ...
)
```

Arguments

query	query list
key	A character string containing an AWS Access Key ID. The default is retrieved from Sys.getenv("AWS_ACCESS_KEY_ID").
secret	A character string containing an AWS Secret Access Key. The default is retrieved from Sys.getenv("AWS_SECRET_ACCESS_KEY").
verbose	A logical indicating whether to be verbose. Default is given by options("verbose").
session_token	Optionally, a character string containing an AWS temporary Session Token. If missing, defaults to value stored in environment variable AWS_SESSION_TOKEN.
region	A character string containing the AWS region. If missing, defaults to "us-west-1".
headers	A list of request headers for the REST call.
...	Additional arguments passed to [GET](#).

Value

list

`alexa_PROCESS`   *Postprocess the results a bit*

Description

Postprocess the results a bit

Usage

```
alexa_PROCESS(res)
```

Arguments

res	result

Value

display request ID and Response Status and the first member of the list

---

`browse_categories`   *Browse Categories*

Description

Uses data from dmoz.org, which is no longer updated.

Usage

```
browse_categories(
  path = NULL,
  response_group = "Categories",
  description = TRUE,
  ...
)
```

Arguments

path	String; Required; valid category path
response_group	String; Required; One of the following: Categories, RelatedCategories, LanguageCategories, LetterBars
description	Boolean; Optional; Whether or not to return descriptions of categories; Default is TRUE
...	Additional arguments passed to [alexa_GET](#).

Value

data.frame with 5 columns: `path`, `title`, `sub_category_count`, `total_listing_count`, `description`

References

https://docs.aws.amazon.com/AlexaWebInfoService/latest/index.html?ApiReference_CategoryBrowseAction.html

Examples

```
## Not run:
browse_categories(path="Top/Arts")

## End(Not run)
```

---

category_listing   *Category Listing*

Description

Uses data from dmoz.org, which is no longer updated. For any given category, it returns a list of site listings contained within that category.

Usage

```
category_listing(
  path = NULL,
  sort_by = "Popularity",
  recursive = TRUE,
  start = 0,
  count = 20,
  description = TRUE,
  ...
)
```

Arguments

path	String; Required; valid category path
sort_by	sort results by Popularity, Title, or AverageReview
recursive	Boolean; Whether to return listings for the current category only, or for the current category plus all subcategories, Default is TRUE
start	index of result at which to start; default is 0
count	Number of results to return for this request; Max = 20; Default = 20
description	Boolean; Optional; Whether or not to return descriptions of categories; Default is TRUE
...	Additional arguments passed to [alexa_GET](#).

Value

data.frame

References

https://docs.aws.amazon.com/AlexaWebInfoService/latest/ApiReference_CategoryListingsAction.
html

Examples

```
## Not run:
category_listing(path="Top/Arts")

## End(Not run)
```

---

in_links   *Sites linking to the site*

Description

Sites linking to the site

Usage

```
in_links(url = NULL, start = 0, count = 20, ...)
```

Arguments

url	String; Required; valid url
start	index of result at which to start; default = 0
count	Number of results to return for this request; Max = 20; Default = 20
...	Additional arguments passed to alexa_GET.

Value

data.frame with two columns: title (site hostname) and url (specific url)

References

https://docs.aws.amazon.com/AlexaWebInfoService/latest/ApiReference_SitesLinkingInAction.
html

Examples

```
## Not run:
in_links(url = "google.com")

## End(Not run)
```

---

set_secret_key   *Set up Key and Secret*

Description

Get the Access Key ID and Secret Access Key by logging into https://console.aws.amazon.com/, clicking on the username followed by security credentials. The function sets two environmental variables `AWS_ACCESS_KEY_ID` and `AWS_SECRET_ACCESS_KEY`. These environment variables persist within a R session. The function looks for these variables

Usage

```
set_secret_key(key = NULL, secret = NULL, force = FALSE)
```

Arguments

key	String; Required; Access Key ID
secret	String; Required; Secret Access Key
force	String; Required; Force change the `AWS_ACCESS_KEY_ID` and `AWS_SECRET_ACCESS_KEY` stored in the environment

References

https://aws.amazon.com/

Examples

```
## Not run:
set_secret_key(key = "key", secret = "secret")

## End(Not run)
```

---

traffic_history   *Get Traffic History of a URL*

Description

Get Traffic History of a URL

Usage

```
traffic_history(url = NULL, range = 31, start = NULL, ...)
```

Arguments

url	String; Required; valid url
range	Integer; Required; Default is 31, Maximum is 31. Pick an integer between 1 and 31.
start	String; Optional; A date within the last 4 years in format YYYYMMDD.
...	Additional arguments passed to `alexa_GET`.

Value

data.frame with the following columns: site, start, range,date, page_views_per_million, page_views_per_user, rank, reach_per_million

References

https://docs.aws.amazon.com/AlexaWebInfoService/latest/ApiReference_TrafficHistoryAction.html

Examples

```
## Not run:
traffic_history(url = "http://www.google.com", start = "20160505")

## End(Not run)
```

---

url_info	*Get Information about a URL*

Description

Get Information about a URL

Usage

```
url_info(url = NULL, response_group = "SiteData", ...)
```

Arguments

url	String; Required; valid url
response_group	String; Required; One of the following: RelatedLinks, Categories, Rank, RankByCountry, UsageStats, AdultContent, Speed, Language, OwnedDomains, LinksInCount, SiteData Default is 'SiteData'. Multiple fields can be passed. They must be separated by comma.
...	Additional arguments passed to `alexa_GET`.

Value

named list

References

https://docs.aws.amazon.com/AlexaWebInfoService/latest/ApiReference_UrlInfoAction.html

Examples

```
## Not run:
url_info(url = "http://www.google.com")

## End(Not run)
```

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