

# Package ‘pathlit’

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**Type** Package

**Title** An SDK for the PathLit Engine

**Version** 0.1.0

**Description** This wrapper houses PathLit API endpoints for R. The usage of these endpoints require the use of an API key which can be obtained at <https://www.pathlit.io/docs/cli/>.

**License** GPL (>= 3)

**Encoding** UTF-8

**RoxygenNote** 7.1.1

**Depends** R (>= 2.10)

**Imports** httr, jsonlite, timeSeries, parallel, testthat, usethis, utils

**URL** <https://www.pathlit.io>

**NeedsCompilation** no

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**Repository** CRAN

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Client

*Client*

---

### Description

Sets up client access.

### Usage

```
Client(apiKey)
```

### Arguments

apiKey            A character string containing the API key.

### Value

Returns the status of the local API key registration.

### Author(s)

Riasat Ali Istiaque, <riasat.istiaque@pathlit.io>

### Examples

```
## Not run:  
Client("56gIvzm4dj1vJpNULv3RJ2CeMd47JETG3bcf5zLS")  
  
## End(Not run)
```

---

get\_info

*Get Information*

---

### Description

Obtains the current version of the PathLit Engine. See <https://www.pathlit.io/docs/api/info/> for more information.

### Usage

```
get_info()
```

### Value

Returns a message indicating PathLit Engine version number.

**Author(s)**

Riasat Ali Istiaque, <riasat.istiaque@pathlit.io>

**Examples**

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

---

get\_paths

*Get Paths*

---

**Description**

Computes the dollar returns of a 100,000 USD portfolio according to the weights computed by [get\\_weights](#). See <https://www.pathlit.io/docs/api/paths/> for more information.

**Usage**

```
get_paths(tickers)
```

**Arguments**

tickers            A character vector of instrument tickers.

**Value**

Returns a time series of dollar movements across the strategies for the tickers provided.

**Author(s)**

Riasat Ali Istiaque, <riasat.istiaque@pathlit.io>

**Examples**

```
## Not run:  
get_paths(c("AAPL", "HOG", "KO"))  
  
## End(Not run)
```

---

`get_tickers`*Get Time Series*

---

**Description**

Retrieves the character vector of available tickers. The time series of these tickers can be retrieved via [get\\_timeseries](#). See <https://www.pathlit.io/docs/api/paths/> for more information.

**Usage**

```
get_tickers()
```

**Value**

Returns a character vector of the available tickers.

**Author(s)**

Riasat Ali Istiaque, <[riasat.istiaque@pathlit.io](mailto:riasat.istiaque@pathlit.io)>

**Examples**

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

---

`get_timeseries`*Get Time Series*

---

**Description**

Retrieves the time series of the tickers provided. The comprehensive list of the tickers can be retrieved via [get\\_tickers](#). See <https://www.pathlit.io/docs/api/paths/> for more information.

**Usage**

```
get_timeseries(tickers)
```

**Arguments**

`tickers` A character vector of instrument tickers.

**Value**

Returns a time series of the tickers provided.

**Author(s)**

Riasat Ali Istiaque, <riasat.istiaque@pathlit.io>

**Examples**

```
## Not run:  
get_timeseries(c("AAPL", "MSFT"))  
  
## End(Not run)
```

---

get\_weights

*Get Weights*

---

**Description**

Computes the weights to be allocated for a portfolio, under different strategies. See <https://www.pathlit.io/docs/api/weights/> for more information.

**Usage**

```
get_weights(tickers)
```

**Arguments**

tickers            A character vector of instrument tickers.

**Value**

Returns a table of weights across the strategies for the tickers provided.

**Author(s)**

Riasat Ali Istiaque, <riasat.istiaque@pathlit.io>

**Examples**

```
## Not run:  
get_weights(c("AAPL", "HOG", "KO"))  
  
## End(Not run)
```

---

PROD\_HOST

*Global Variables*

---

### Description

Contains global variables used throughout the package.

### Usage

```
PROD_HOST
```

### Format

An object of class character of length 1.

### Author(s)

Riasat Ali Istiaque, <riasat.istiaque@pathlit.io>

---

Simulate

*Simulate*

---

### Description

Computes the dollar returns of a 100,000 USD portfolio according to the weights computed by [get\\_weights](#), but across simulated (normally-distributed) market data. See <https://www.pathlit.io/docs/api/sims/> for more information.

### Usage

```
Simulate(tickers, run_count = 10)
```

### Arguments

tickers	A character vector of instrument tickers.
run_count	Defaults to 10 runs. An integer defining the number of simulated market data universes.

### Value

Returns a list of multiple time series' of dollar movements across the strategies for the tickers provided.

### Author(s)

Riasat Ali Istiaque, <riasat.istiaque@pathlit.io>

**Examples**

```
## Not run:  
Simulate(c("AAPL", "HOG", "KO"), 5)  
  
## End(Not run)
```

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