

Package: litportFreeProxy (via r-universe)

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Title Client for the Litport Free Proxy Snapshot API

Version 0.1.0

Description Fetches and validates snapshots of verified HTTP, SOCKS4, and SOCKS5 proxies from the Litport free proxy API. Filters results by protocol, country, anonymity, HTTPS support, latency, uptime, and freshness, returning a normalized data frame. Validation rejects private and reserved IPv4 ranges, malformed timestamps, and truncated or stale snapshots.

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URL <https://litport.net/free-proxy>,
<https://litport.net/docs/free-proxy-api>,
<https://github.com/litportnet/free-proxy-sdk>

BugReports <https://github.com/litportnet/free-proxy-sdk/issues>

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litportFreeProxy-package	
	<i>litportFreeProxy: Client for the Litport Free Proxy Snapshot API</i>

Description

Fetches and validates snapshots of verified HTTP, SOCKS4, and SOCKS5 proxies from the Litport free proxy API. Filters results by protocol, country, anonymity, HTTPS support, latency, uptime, and freshness, returning a normalized data frame. Validation rejects private and reserved IPv4 ranges, malformed timestamps, and truncated or stale snapshots.

Details

Create a client with [litport_client](#), then fetch proxies with [get_proxies](#) or [pick_best](#). Both functions validate the snapshot envelope and every proxy row, raising conditions of class `litport_error` (with a more specific subclass such as `litport_http_error` or `litport_snapshot_validation_error`) on failure.

See Also

- [litport_client](#), [get_proxies](#), [pick_best](#)
- <https://litport.net/free-proxy>
- <https://litport.net/docs/free-proxy-api>

get_proxies	<i>Fetch and Filter Litport Free Proxies</i>
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Description

Fetches the Litport free proxy snapshot, validates it, and returns the matching proxy records as a normalized data frame ordered by seven-day uptime, then latency, then URL.

Usage

```
get_proxies(client, ...)
```

Arguments

client	A "litport_client" object created by litport_client .
...	Named filters. Supported names are protocol (one of "http", "socks4", "socks5"), country (a two-letter code), anonymity (one of "transparent", "anonymous", "elite", "unknown"), https (logical), max_latency_ms, min_uptime_7d, min_checks_7d, and limit (each a non-negative integer), and checked_within_min (an integer from 1 to 1440, default 30). Unrecognized names raise litport_filter_validation_error.

Details

The snapshot envelope and every proxy row are validated before filtering. Invalid envelopes raise `litport_snapshot_validation_error`; a truncated snapshot raises `litport_snapshot_truncated_error`; an HTTP status outside 200-299 raises `litport_http_error` (carrying a status element); a transport timeout raises `litport_timeout_error`; any other transport failure, such as a name-resolution or TLS error, raises `litport_transport_error`. Proxy host values are validated as public IPv4 addresses, rejecting private and other reserved ranges. A row's `uptime_7d` is forced to NA whenever it has fewer than 50 checks in the last 7 days. Only rows whose `last_checked` timestamp falls within `checked_within_min` minutes of the current time (and no more than 5 seconds in the future) are kept. Results are sorted with non-missing `uptime_7d` first (descending), then non-missing `latency_ms` first (ascending), then `url` (ascending), before `limit` is applied.

Value

A `data.frame` with one row per matching proxy and the columns `protocol`, `ip`, `port`, `url`, `country`, `region`, `city`, `timezone`, `asn`, `asn_org`, `anonymity`, `https`, `latency_ms`, `latency_median_ms`, `uptime_24h`, `uptime_7d`, `checks_7d`, `exit_ip`, `sources_count`, `first_seen`, and `last_checked` (the last two as POSIXct in UTC). When no proxies match, a zero-row `data.frame` with the same columns and column types is returned rather than NULL.

See Also

[litport_client](#), [pick_best](#)
<https://litport.net/free-proxy>
<https://litport.net/docs/free-proxy-api>

Examples

```
client <- litport_client()

## Not run:
proxies <- get_proxies(client, protocol = "socks5", country = "us",
  limit = 5)
proxies$url

## End(Not run)
```

litport_client	Create a Litport Free Proxy Client
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Description

Creates a client object holding the snapshot endpoint, request timeout, and optional transport and clock overrides used by [get_proxies](#) and [pick_best](#). No network request is made here.

Usage

```
litport_client(api_url = NULL, timeout = 10, transport = NULL, now = NULL)
```

Arguments

api_url	Character string giving the snapshot endpoint URL. Defaults to the public Litport free proxy snapshot API.
timeout	Positive, finite number of seconds to wait for the snapshot request before raising a <code>litport_timeout_error</code> . Defaults to 10.
transport	Optional function with signature <code>function(url, timeout)</code> returning <code>list(status, headers, body)</code> , where <code>status</code> is an integer HTTP status code, <code>headers</code> is a named character vector, and <code>body</code> is a character string of JSON. Used to inject a deterministic transport for testing; when <code>NULL</code> the client performs a real HTTP GET request using the curl package.
now	Optional zero-argument function returning the current time as a <code>POSIXct</code> in UTC. Used to make freshness and envelope validation deterministic for testing; defaults to the system clock.

Details

The client itself performs no network I/O; it only stores configuration that is used later by [get_proxies](#). Constructing a client raises a condition of class `litport_filter_validation_error` if `timeout` is not a positive, finite number, or if `transport` or `now` are supplied but are not functions.

Value

An object of class "litport_client": a list holding the validated `api_url`, `timeout`, `transport`, and `now` settings. Pass it to [get_proxies](#) or [pick_best](#).

See Also

[get_proxies](#), [pick_best](#)

<https://litport.net/free-proxy>

<https://litport.net/docs/free-proxy-api>

Examples

```

client <- litport_client()

## Not run:
proxies <- get_proxies(client, protocol = "socks5", country = "us")

## End(Not run)

```

pick_best

Fetch the Best Litport Free Proxies

Description

Fetches the Litport free proxy snapshot and returns at most count of the highest-ranked matching proxy records, applying the same filters and ordering as [get_proxies](#).

Usage

```
pick_best(client, count, ...)
```

Arguments

client	A "litport_client" object created by litport_client .
count	Non-negative integer giving the maximum number of rows to return.
...	Named filters passed through to get_proxies ; see its documentation for the supported names.

Details

pick_best is equivalent to calling [get_proxies](#) with the same filters and then taking the first count rows, since [get_proxies](#) already returns results sorted best-first. It raises `litport_filter_validation_error` if count is not a non-negative integer.

Value

A data.frame with the same columns as [get_proxies](#), containing at most count rows taken from the front of the sorted, filtered result. When no proxies match, a zero-row data.frame with the same columns and column types is returned rather than NULL.

See Also

[litport_client](#), [get_proxies](#)
<https://litport.net/free-proxy>
<https://litport.net/docs/free-proxy-api>

Examples

```
client <- litport_client()

## Not run:
best <- pick_best(client, 5, protocol = "http")
best$url

## End(Not run)
```

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