Package 'virustotal'

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Title R Client for the 'VirusTotal' API

Version 0.7.1

Description Provides a comprehensive R interface to the 'VirusTotal' API v3.0 <https://docs.virustotal.com/>, a Google service that analyzes files and URLs for viruses, worms, trojans and other malware. Features include file/URL scanning, domain categorization, passive DNS information, IP reputation analysis, IoC relationships, sandbox analysis, and comment/voting systems. Implements rate limiting, error handling, and response validation for robust security analysis workflows.

URL https://github.com/themains/virustotal, https://themains.github.io/virustotal/

BugReports https://github.com/themains/virustotal/issues

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`domain_report` *Get Domain Report*

Description

Retrieves comprehensive analysis report for a given domain, including WHOIS information, DNS resolutions, detected URLs, and threat intelligence data.

Usage

```
domain_report(domain = NULL, ...)
```

Arguments

`domain`	Domain name (character string). Required.
`...`	Additional arguments passed to `virustotal_GET`

Value

A `virustotal_domain_report` object containing domain analysis results including WHOIS data, DNS resolutions, detected URLs, categories, and threat intelligence

References

https://docs.virustotal.com/reference/domains

See Also

`set_key` for setting the API key

Examples

```
## Not run:
# Set API key first
set_key('your_api_key_here')

# Get domain reports
report1 <- domain_report("google.com")
report2 <- domain_report("https://www.example.com/path")

print(report1)
summary(report1)

## End(Not run)
```

`download_file` *Download a file from VirusTotal*

Description

Download a file from VirusTotal

Usage

```
download_file(hash = NULL, output_path = NULL, ...)
```

Arguments

`hash`	File hash (MD5, SHA1, or SHA256)
`output_path`	Local path to save the downloaded file. Optional.
`...`	Ignored. Configure requests with the package options instead (see `virustotal`).

Value

Raw file content or saves file to specified path

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

download_file(
  hash = '99017f6eebbac24f351415dd410d522d',
  output_path = '/tmp/downloaded_file'
)

## End(Not run)
```

file_report *Get File Scan Report*

Description

Retrieves detailed analysis results for a file from VirusTotal using the v3 API.

Usage

```
file_report(hash, ...)
```

Arguments

hash	File hash (MD5, SHA1, or SHA256). For analysis IDs returned by scans, use get_analysis.
...	Additional arguments passed to virustotal_GET

Value

A virustotal_file_report object containing file analysis results including antivirus scans, file metadata, and threat detection information

References

https://docs.virustotal.com/reference/files

See Also

set_key for setting the API key, scan_file for submitting files

Examples

```
## Not run:
# Set API key first
set_key('your_api_key_here')

# Get file report using hash
report <- file_report(hash = '99017f6eebbac24f351415dd410d522d')
print(report)
summary(report)

# Work with the rich nested structure returned by v3 API
print(report$data$attributes$last_analysis_stats)

## End(Not run)
```

`get_analysis` *Get Analysis Results*

Description

Retrieves the results of a file or URL analysis by its analysis ID.

Usage

```
get_analysis(id = NULL, ...)
```

Arguments

`id`	Analysis ID (character string). Required.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing analysis results including status and detection stats

References

https://docs.virustotal.com/reference/analysis

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_analysis(id = 'NjY0MjRlOTFjMDIyYTkyNWM0NjU2NWQzYWNlMzFmZmI6MTI4NTk')

## End(Not run)
```

`get_behaviour_evtx` *Get Behaviour EVTX File*

Description

Retrieves the EVTX (Windows Event Log) file from a sandbox analysis.

Usage

```
get_behaviour_evtx(sandbox_id = NULL, output_path = NULL, ...)
```

Arguments

`sandbox_id`	Sandbox report ID (character string). Required.
`output_path`	Local path to save the EVTX file. Optional.
`...`	Ignored. Configure requests with the package options instead (see `virustotal`).

Value

Raw EVTX content or saves to file if output_path specified

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `get_behaviour_report` for JSON report

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

evtx <- get_behaviour_evtx(sandbox_id = 'hash_sandboxname')
get_behaviour_evtx(
  sandbox_id = 'hash_sandboxname',
  output_path = '/tmp/events.evtx'
)

## End(Not run)
```

`get_behaviour_html` *Get Behaviour HTML Report*

Description

Retrieves a detailed HTML report from a sandbox analysis.

Usage

```
get_behaviour_html(sandbox_id = NULL, output_path = NULL, ...)
```

Arguments

`sandbox_id`	Sandbox report ID (character string). Required.
`output_path`	Local path to save the HTML file. Optional.
`...`	Ignored. Configure requests with the package options instead (see `virustotal`).

Value

Raw HTML content or saves to file if output_path specified

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `get_behaviour_report` for JSON report

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

html <- get_behaviour_html(sandbox_id = 'hash_sandboxname')
get_behaviour_html(
  sandbox_id = 'hash_sandboxname',
  output_path = '/tmp/report.html'
)

## End(Not run)
```

`get_behaviour_memdump` *Get Behaviour Memory Dump*

Description

Retrieves the memory dump file from a sandbox analysis.

Usage

```
get_behaviour_memdump(sandbox_id = NULL, output_path = NULL, ...)
```

Arguments

`sandbox_id`	Sandbox report ID (character string). Required.
`output_path`	Local path to save the memory dump file. Optional.
`...`	Ignored. Configure requests with the package options instead (see `virustotal`).

Value

Raw memory dump content or saves to file if output_path specified

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `get_behaviour_report` for JSON report

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

memdump <- get_behaviour_memdump(sandbox_id = 'hash_sandboxname')
get_behaviour_memdump(
  sandbox_id = 'hash_sandboxname',
  output_path = '/tmp/memory.dmp'
)

## End(Not run)
```

`get_behaviour_pcap` *Get Behaviour PCAP File*

Description

Retrieves the PCAP (network capture) file from a sandbox analysis.

Usage

```
get_behaviour_pcap(sandbox_id = NULL, output_path = NULL, ...)
```

Arguments

`sandbox_id`	Sandbox report ID (character string). Required.
`output_path`	Local path to save the PCAP file. Optional.
`...`	Ignored. Configure requests with the package options instead (see `virustotal`).

Value

Raw PCAP content or saves to file if output_path specified

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `get_behaviour_report` for JSON report

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

pcap <- get_behaviour_pcap(sandbox_id = 'hash_sandboxname')
get_behaviour_pcap(
  sandbox_id = 'hash_sandboxname',
  output_path = '/tmp/capture.pcap'
)

## End(Not run)
```

`get_behaviour_report` *Get Behaviour Report*

Description

Retrieves a specific behaviour report from a sandbox analysis.

Usage

```
get_behaviour_report(sandbox_id = NULL, ...)
```

Arguments

`sandbox_id`	Sandbox report ID (character string). Required.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing detailed behaviour report from the sandbox

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `get_file_behaviours` for listing all behaviour reports

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_behaviour_report(sandbox_id = 'hash_sandboxname')

## End(Not run)
```

`get_domain_comments` *Retrieve comments for an Internet domain*

Description

Retrieve comments for an Internet domain

Usage

```
get_domain_comments(domain = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`domain`	domain name. String. Required.
`limit`	Number of entries. Integer. Optional. Default is 10.
`cursor`	String. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing domain comment data including comment text, authors, dates, and any associated metadata from the VirusTotal v3.0 API

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_domain_comments("http://www.google.com")
get_domain_comments("https://www.example.com") # Domain not found

## End(Not run)
```

`get_domain_info` *Retrieve information about an Internet domain*

Description

Retrieve information about an Internet domain

Usage

```
get_domain_info(domain = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`domain`	domain name. String. Required.
`limit`	Number of entries. Integer. Optional. Default is 10.
`cursor`	String. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

named list

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_domain_info("http://www.google.com")
get_domain_info("https://www.example.com") # Domain not found

## End(Not run)
```

`get_domain_relationship` *Retrieve related objects to an Internet domain*

Description

Retrieve related objects to an Internet domain

Usage

```
get_domain_relationship(
  domain = NULL,
  relationship = "subdomains",
  limit = NULL,
  cursor = NULL,
  ...
)
```

Arguments

`domain`	domain name. String. Required.
`relationship`	relationship name. String. Required. Default is `subdomains`. For all the options see https://docs.virustotal.com/reference
`limit`	Number of entries. Integer. Optional. Default is 10.
`cursor`	String. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

named list

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_domain_relationship("https://www.google.com")
get_domain_relationship("https://www.example.com") # Domain not found
```

```
## End(Not run)
```

`get_domain_votes` *Retrieve votes for an Internet domain*

Description

Retrieve votes for an Internet domain

Usage

```
get_domain_votes(domain = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`domain`	domain name. String. Required.
`limit`	Number of entries. Integer. Optional. Default is 10.
`cursor`	String. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

named list

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_domain_votes("http://www.google.com")
get_domain_votes("https://www.example.com") # Domain not found

## End(Not run)
```

`get_file_behaviours` *Get File Behaviours*

Description

Retrieves all behaviour reports for a file from various sandboxes.

Usage

```
get_file_behaviours(hash = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`hash`	File hash (MD5, SHA1, or SHA256). Required.
`limit`	Number of reports to retrieve. Integer. Optional.
`cursor`	String for pagination. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing behaviour reports from various sandboxes

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `get_file_behaviour_summary` for summary, `get_behaviour_report` for individual sandbox reports

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_file_behaviours(hash = '99017f6eebbac24f351415dd410d522d')
get_file_behaviours(hash = '99017f6eebbac24f351415dd410d522d', limit = 5)

## End(Not run)
```

get_file_behaviour_mitre_trees *Get File Behaviour MITRE ATT&CK Trees*

Description

Retrieves MITRE ATT&CK techniques observed in file behaviour reports.

Usage

```
get_file_behaviour_mitre_trees(hash = NULL, ...)
```

Arguments

hash	File hash (MD5, SHA1, or SHA256). Required.
...	Additional arguments passed to virustotal_GET.

Value

list containing MITRE ATT&CK technique mappings

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key, get_file_behaviour_summary for behaviour summary

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_file_behaviour_mitre_trees(hash = '99017f6eebbac24f351415dd410d522d')

## End(Not run)
```

`get_file_behaviour_summary` *Get File Behaviour Summary*

Description

Retrieves a summary of all behaviour reports for a file.

Usage

```
get_file_behaviour_summary(hash = NULL, ...)
```

Arguments

`hash`	File hash (MD5, SHA1, or SHA256). Required.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing behaviour summary from all sandboxes

References

https://docs.virustotal.com/reference/file-all-behaviours-summary

See Also

`set_key` for setting the API key, `get_file_behaviours` for full behaviour reports

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_file_behaviour_summary(hash = '99017f6eebbac24f351415dd410d522d')

## End(Not run)
```

`get_file_comments` *Retrieve comments for a file*

Description

Retrieve comments for a file

Usage

```
get_file_comments(hash = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`hash`	File hash (MD5, SHA1, or SHA256)
`limit`	Number of comments to retrieve. Integer. Optional. Default is 10.
`cursor`	String for pagination. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing file comments

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_file_comments(hash = '99017f6eebbac24f351415dd410d522d')

## End(Not run)
```

`get_file_download_url` *Get download URL for a file*

Description

Get download URL for a file

Usage

```
get_file_download_url(hash = NULL, ...)
```

Arguments

hash	File hash (MD5, SHA1, or SHA256)
...	Additional arguments passed to virustotal_GET.

Value

list containing download URL and metadata

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_file_download_url(hash = '99017f6eebbac24f351415dd410d522d')

## End(Not run)
```

`get_file_relationships` *Retrieve relationships for a file*

Description

Retrieve relationships for a file

Usage

```
get_file_relationships(
  hash = NULL,
  relationship = NULL,
  limit = NULL,
  cursor = NULL,
  ...
)
```

Arguments

`hash`	File hash (MD5, SHA1, or SHA256)
`relationship`	Type of relationship: "behaviours", "bundled_files", "compression_parents", "contacted_domains", "contacted_ips", "contacted_urls", "dropped_files", "execution_parents", "itw_domains", "itw_ips", "itw_urls", "overlay_parents", "pcap_parents", "pe_resource_parents", "similar_files", "submissions"
`limit`	Number of relationships to retrieve. Integer. Optional. Default is 10.
`cursor`	String for pagination. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing file relationships

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_file_relationships(
  hash = '99017f6eebbac24f351415dd410d522d',
  relationship = 'contacted_domains'
)

## End(Not run)
```

`get_file_upload_url` *Get file upload URL for large files*

Description

Get a special URL for uploading files larger than 32MB to VirusTotal for analysis.

Usage

```
get_file_upload_url(...)
```

Arguments

`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing upload URL and other metadata

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `scan_file` for regular file uploads

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_file_upload_url()

## End(Not run)
```

`get_file_votes` *Retrieve votes for a file*

Description

Retrieve votes for a file

Usage

```
get_file_votes(hash = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`hash`	File hash (MD5, SHA1, or SHA256)
`limit`	Number of votes to retrieve. Integer. Optional. Default is 10.
`cursor`	String for pagination. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing file votes

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_file_votes(hash = '99017f6eebbac24f351415dd410d522d')

## End(Not run)
```

`get_ip_comments` *Retrieve comments for an IP address*

Description

Retrieve comments for an IP address

Usage

```
get_ip_comments(ip = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`ip`	IP Address. String. Required.
`limit`	Number of entries. Integer. Optional. Default is 10.
`cursor`	String. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

named list

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_ip_comments("64.233.160.0")

## End(Not run)
```

`get_ip_info` *Retrieve information about an IP address*

Description

Retrieves report on a given IP address.

Usage

```
get_ip_info(ip = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`ip`	IP address. Required.
`limit`	Number of entries. Optional.
`cursor`	String. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

named list

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_ip_info("64.233.160.0")

## End(Not run)
```

`get_ip_votes` *Retrieve votes for an IP address*

Description

Retrieve votes for an IP address

Usage

```
get_ip_votes(ip = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`ip`	IP address. String. Required.
`limit`	Number of entries. Integer. Optional. Default is 10.
`cursor`	String. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

named list

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_ip_votes("64.233.160.0")

## End(Not run)
```

get_url_comments *Retrieve comments for a URL*

Description

Retrieve comments for a URL

Usage

```
get_url_comments(url_id = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

url_id	URL or URL ID from VirusTotal
limit	Number of comments to retrieve. Optional.
cursor	String for pagination. Optional.
...	Additional arguments passed to virustotal_GET.

Value

list containing URL comments

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_url_comments(url_id = 'http://www.google.com')

## End(Not run)
```

`get_url_relationships` *Retrieve relationships for a URL*

Description

Retrieve relationships for a URL

Usage

```
get_url_relationships(
  url_id = NULL,
  relationship = NULL,
  limit = NULL,
  cursor = NULL,
  ...
)
```

Arguments

`url_id`	URL or URL ID from VirusTotal
`relationship`	Type of relationship. See VirusTotal docs for options.
`limit`	Number of relationships to retrieve. Optional.
`cursor`	String for pagination. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing URL relationships

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_url_relationships(
  url_id = 'http://www.google.com',
  relationship = 'communicating_files'
)
```

```
## End(Not run)
```

`get_url_votes` *Retrieve votes for a URL*

Description

Retrieve votes for a URL

Usage

```
get_url_votes(url_id = NULL, limit = NULL, cursor = NULL, ...)
```

Arguments

`url_id`	URL or URL ID from VirusTotal
`limit`	Number of votes to retrieve. Integer. Optional. Default is 10.
`cursor`	String for pagination. Optional.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing URL votes

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

get_url_votes(url_id = 'http://www.google.com')

## End(Not run)
```

`ip_report` *Get IP Address Report*

Description

Retrieves comprehensive analysis report for an IP address, including geolocation, ASN information, DNS resolutions, and detected URLs.

Usage

```
ip_report(ip = NULL, ...)
```

Arguments

`ip`	a valid IPv4 or IPv6 address. Required.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing IP analysis results including geolocation, ASN information, DNS resolutions, detected URLs, and threat intelligence

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

ip_report(ip = "8.8.8.8")
ip_report(ip = "2001:4860:4860::8888")

## End(Not run)
```

post_domain_comments *Add a comment to an Internet domain*

Description

Add a comment to an Internet domain

Usage

```
post_domain_comments(domain = NULL, comment = NULL, ...)
```

Arguments

domain	domain name. Required.
comment	comment text. Required. Words starting with # become tags.
...	Additional arguments passed to virustotal_POST.

Value

named list

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

post_domain_comments(domain = "https://google.com", comment = "Great!")

## End(Not run)
```

`post_domain_votes` *Add a vote for a hostname or domain*

Description

Add a vote for a hostname or domain

Usage

```
post_domain_votes(domain = NULL, vote = NULL, ...)
```

Arguments

`domain`	domain name. Required.
`vote`	vote. Required.
`...`	Additional arguments passed to `virustotal_POST`.

Value

named list

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

post_domain_votes("http://google.com", vote = "malicious")

## End(Not run)
```

post_file_comments *Add a comment to a file*

Description

Add a comment to a file

Usage

```
post_file_comments(hash = NULL, comment = NULL, ...)
```

Arguments

hash	File hash (MD5, SHA1, or SHA256)
comment	Comment text to add
...	Additional arguments passed to virustotal_POST.

Value

list containing response data

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

post_file_comments(
  hash = '99017f6eebbac24f351415dd410d522d',
  comment = 'This file appears to be suspicious'
)

## End(Not run)
```

post_file_votes *Add a vote to a file*

Description

Add a vote to a file

Usage

```
post_file_votes(hash = NULL, verdict = NULL, ...)
```

Arguments

hash	File hash (MD5, SHA1, or SHA256)
verdict	Vote verdict: "harmless" or "malicious"
...	Additional arguments passed to virustotal_POST.

Value

list containing response data

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

post_file_votes(hash = '99017f6eebbac24f351415dd410d522d', verdict = 'malicious')

## End(Not run)
```

`post_ip_comments` *Add a comment to an IP address*

Description

Add a comment to an IP address

Usage

```
post_ip_comments(ip = NULL, comment = NULL, ...)
```

Arguments

`ip`	IP address. Required.
`comment`	Comment. Required.
`...`	Additional arguments passed to `virustotal_POST`.

Value

named list

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

post_ip_comments(ip = "64.233.160.0", comment = "test")

## End(Not run)
```

post_ip_votes *Add a vote for an IP address*

Description

Add a vote for an IP address

Usage

```
post_ip_votes(ip = NULL, vote = NULL, ...)
```

Arguments

ip	IP address. Required.
vote	vote. Required.
...	Additional arguments passed to virustotal_POST.

Value

named list

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

post_ip_votes(ip = "64.233.160.0", vote = "malicious")

## End(Not run)
```

post_url_comments *Add a comment to a URL*

Description

Add a comment to a URL

Usage

```
post_url_comments(url_id = NULL, comment = NULL, ...)
```

Arguments

url_id	URL or URL ID from VirusTotal
comment	Comment text to add
...	Additional arguments passed to virustotal_POST.

Value

list containing response data

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

post_url_comments(
  url_id = 'http://www.google.com',
  comment = 'This URL appears suspicious'
)

## End(Not run)
```

post_url_votes *Add a vote to a URL*

Description

Add a vote to a URL

Usage

```
post_url_votes(url_id = NULL, verdict = NULL, ...)
```

Arguments

url_id	URL or URL ID from VirusTotal
verdict	Vote verdict: "harmless" or "malicious"
...	Additional arguments passed to virustotal_POST.

Value

list containing response data

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

post_url_votes(url_id = 'http://www.google.com', verdict = 'harmless')

## End(Not run)
```

rescan_domain *Request rescan of a domain*

Description

Request a new analysis of a domain already in VirusTotal's database. Returns an analysis ID for use with get_analysis.

Usage

```
rescan_domain(domain = NULL, ...)
```

Arguments

domain	Domain name to rescan. Required.
...	Additional arguments passed to virustotal_POST.

Value

list containing analysis details and ID

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key, domain_report for getting reports

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

# Request rescan of a domain
rescan_domain("google.com")

## End(Not run)
```

`rescan_file` *Request rescan of a file*

Description

Request a new analysis of a file already present in VirusTotal's database. Returns an analysis ID for use with `get_analysis`.

Usage

```
rescan_file(hash = NULL, ...)
```

Arguments

`hash`	File hash (MD5, SHA1, or SHA256) or file ID. Required.
`...`	Additional arguments passed to `virustotal_POST`.

Value

list containing analysis details and ID

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

rescan_file(hash = '99017f6eebbac24f351415dd410d522d')

## End(Not run)
```

rescan_ip *Request rescan of an IP address*

Description

Request a new analysis of an IP address already in VirusTotal's database. Returns an analysis ID for use with get_analysis.

Usage

```
rescan_ip(ip = NULL, ...)
```

Arguments

ip	IP address to rescan (IPv4 or IPv6). Required.
...	Additional arguments passed to virustotal_POST.

Value

list containing analysis details and ID

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key, ip_report for getting reports

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

# Request rescan of an IPv4 address
rescan_ip("8.8.8.8")

# Request rescan of an IPv6 address
rescan_ip("2001:4860:4860::8888")

## End(Not run)
```

`rescan_url` *Request rescan of a URL*

Description

Request a new analysis of a URL already present in VirusTotal's database. Returns an analysis ID for use with `get_analysis`.

Usage

```
rescan_url(url_id = NULL, ...)
```

Arguments

`url_id`	URL or URL ID (base64 encoded URL without padding). Required.
`...`	Additional arguments passed to `virustotal_POST`.

Value

list containing analysis details and ID

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `url_report` for getting reports

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

# Request rescan using URL
rescan_url("http://www.google.com")

# Request rescan using URL ID
rescan_url("aHR0cDovL3d3dy5nb29nbGUuY29tLw")

## End(Not run)
```

`scan_file` *Submit a file for scanning*

Description

Uploads a file to VirusTotal for malware analysis using the v3 API. Files larger than 32 MiB use a single-use upload URL; the maximum accepted size is 650 MiB (one MiB is 1024^2 bytes). The final upload to a single-use URL is not automatically retried. Retrieve the returned analysis ID with `get_analysis`.

Usage

```
scan_file(file_path, ...)
```

Arguments

`file_path`	Required; Path to the file to be scanned
`...`	Additional arguments passed to `virustotal_POST`

Value

A `virustotal_file_scan` object with analysis ID and links

References

https://docs.virustotal.com/reference/files-scan

See Also

`set_key` for setting the API key, `file_report` for retrieving scan results

Examples

```
## Not run:
# Set API key first
set_key('your_api_key_here')

# Scan a file
result <- scan_file(file_path = 'suspicious_file.exe')
print(result)

## End(Not run)
```

scan_url *Submit URL for scanning*

Description

Submit a URL for analysis. Returns analysis details including an ID that can be used to retrieve the analysis using get_analysis.

Usage

```
scan_url(url = NULL, ...)
```

Arguments

url	URL to scan; string; required
...	Additional arguments passed to virustotal_POST.

Value

list containing analysis details and ID

References

https://docs.virustotal.com/reference

See Also

set_key for setting the API key

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

scan_url("http://www.google.com")

## End(Not run)
```

set_key *Set VirusTotal API Key*

Description

Stores your VirusTotal API key in an environment variable for use by other package functions. Get your API key from https://www.virustotal.com/.

Usage

```
set_key(api_key = NULL)
```

Arguments

api_key	VirusTotal API key (character string). Required.

Details

The canonical environment variable is VIRUSTOTAL_API_KEY; the historical VirustotalToken is also set for compatibility with code that reads it directly. Setting either variable before loading the package works without calling this function at all.

Value

Invisibly returns TRUE on success

References

https://docs.virustotal.com/reference

See Also

Other authentication: has_vt_key(), vt_key()

Examples

```
## Not run:
# Set your API key
set_key('your_64_character_api_key_here')

# Verify it's set
Sys.getenv("VIRUSTOTAL_API_KEY")

## End(Not run)
```

`url_report` *Get URL Report*

Description

Retrieve a scan report for a given URL or URL ID from VirusTotal.

Usage

```
url_report(url_id = NULL, ...)
```

Arguments

`url_id`	URL or URL ID from VirusTotal. String. Required.
`...`	Additional arguments passed to `virustotal_GET`.

Value

list containing URL analysis results including scan details, detection information, and metadata

References

https://docs.virustotal.com/reference

See Also

`set_key` for setting the API key, `scan_url` for submitting URLs

Examples

```
## Not run:

# Before calling the function, set the API key using set_key('api_key_here')

# Get report using URL
url_report("http://www.google.com")

# Get report using URL ID (base64 encoded URL without padding)
url_report("aHR0cDovL3d3dy5nb29nbGUuY29tLw")

## End(Not run)
```

virustotal_info *Print package information and configuration status*

Description

Print package information and configuration status

Usage

```
virustotal_info()
```

Value

Invisible NULL

See Also

Other utilities: `cleanup_temp_files()`, `create_safe_temp_dir()`, `format_file_size()`, `is_safe_environment()`, `utilities`, `validate_vt_response()`, `virustotal_version()`

virustotal_version *Get package version information*

Description

Get package version information

Usage

```
virustotal_version()
```

Value

Character string with package version

See Also

Other utilities: `cleanup_temp_files()`, `create_safe_temp_dir()`, `format_file_size()`, `is_safe_environment()`, `utilities`, `validate_vt_response()`, `virustotal_info()`

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