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# IMMUNIWEB

## CLOUD SECURITY TEST

## API DOCUMENTATION

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## 1. General Overview

### API Specifications

Field Name	Value
Protocol	HTTPS
Request Type	POST
URLs	<p>To initiate the test:  <a href="https://www.immuniweb.com/cloud/api/v2/tests/">https://www.immuniweb.com/cloud/api/v2/tests/</a></p> <p>To check the test's status:  <a href="https://www.immuniweb.com/cloud/api/v2/tests/{DOMAIN}/status">https://www.immuniweb.com/cloud/api/v2/tests/{DOMAIN}/status</a></p> <p>To fetch the results:  <a href="https://www.immuniweb.com/cloud/api/v2/tests/{DOMAIN}/">https://www.immuniweb.com/cloud/api/v2/tests/{DOMAIN}/</a></p>

### POST Data Specifications

Field Name	Value
target	The domain name to be tested.
private	<p>Setting the parameter to "true" means that test results will be hidden, "false" means that test results will be displayed in the Latest Tests section on ImmuniWeb.com.</p> <p>If not specified, by default the value is set to "false".</p>
quick	<p>Setting the parameter to "true" will make the Test to check for cloud assets and exposure in AWS, Azure and GCP only.</p> <p>If not specified, by default the value is set to "true"</p>
api_key	<p>The optional secret token which you submit alongside with the request (used only for commercial access).</p> <p>The parameter can be simply omitted, if you don't have a purchased API key.</p>

### Step 1: Starting the test

```
curl -X POST -H "content-type: application/json" -d
{"target":"example.com","quick":false,"private":true,"api_key":"API_KEY"}
https://www.immuniweb.com/cloud/api/v2/tests/
```

This request will start a new test, or refresh an existing one (if API key has been supplied).  
Response example:

```
{
  "status": "created",
  "brand": "Example",
  "quick": true,
  "private": true
}
```

### Step 2: Checking the status of the test

```
curl https://www.immuniweb.com/cloud/api/v2/tests/example.com/status/
```

This request will check the status of the newly created or refreshed test. Response example:

```
{ "status": "processing",
  "job_started_at": "2023-11-27T16:18:14.555006+00:00",
  "job_finished_at": null }
```

### Step 3: Fetching the results

```
curl -H "Authorization: Bearer API_KEY"
https://www.immuniweb.com/cloud/api/v2/tests/example.com/
```

This request will fetch the test results, once it's finished. Response example will be detailed later in this document. The Authorization header is optional and can be omitted.

### How to download the PDF report

```
curl -H "Authorization: Bearer API_KEY"
https://www.immuniweb.com/cloud/api/v2/gen_pdf/example.com/ > filename.pdf
```

## 2. Response

The returned response of a successful test will be composed of the following main elements:

- Result: an object containing all the results of the test and basic stats about found buckets.
- Parameters: an object containing the parameters with which the test has been launched.
- Dates when the test has been started and when it finished.

### Successful Response Example

```
{  "result": {
    "brand": "Example",
    "cloud": {
      "stats": {
        "files_total": 0,
        "buckets_total": 10,
        "public_buckets": 0
      },
      "buckets": {
        "amazon_s3": {
          "type": "Amazon S3",
          "secure": true,
          "status": "private",
          "country": "us",
          "location": "Amazon AWS",
          "total_files": 0,
          "last_modified": null,
          "endpoint_locked": "https://example.com"
        },
        "azure_storage": [...],
        "google_cloud_storage": [...]
      }
    },
    "created_at": "2023-11-27T16:18:13.759365+00:00",
    "finished_at": "2023-11-27T16:21:35.443673+00:00",
    "parameters": {
      "private": true,
      "target": "example.com",
      "quick": false
    }
  }
}
```

### 3. Result

The “result” object contains all the results of the test. The notable fields and their descriptions is as follows:

Field Name	Type	Always present	Description
brand	string	Yes	Indicates the brandname associated with the domain and used during the test.
files_total	integer	Yes	Indicates the total number of files in public buckets.
buckets_total	integer	Yes	Indicates the total number of found buckets.
public_buckets	integer	Yes	Indicates the number of public (open) buckets.
type	string	Yes	Indicates the type of the bucket.
secure_connection	bool	Yes	Indicates whether the buckets is accessible via HTTPS protocol.
status	string	Yes	Indicates whether the bucket is public (open to everyone) or private.
country	string	Yes	Indicates the country whether the server is located.
location	string	Yes	Indicates the cloud service provider (e.g AWS).
total_files	integer	Yes	Indicates the total number of files accessible publicly.
last_modified	string	Yes	Indicates the last known date of the bucket's modification (if available). Becomes “null” if it's not known.
endpoint_locked	string	No	Indicates the encrypted URL of the bucket, if the test results were requested without supplying a valid API key.
endpoint	string	No	Indicates the plaintext URL of the bucket, if the test results were requested while supplying a valid API key.