



PUBLIC

ImmuniWeb's  
Trademark Monitor API  
Documentation  
Version v2.0  
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## General Overview

### API Documentation and How-To

#### API Specifications

Field Name	Value
<b>Protocol</b>	HTTP/HTTPS
<b>Request Type</b>	GET
<b>URL</b>	<a href="https://www.immuniweb.com/radar/api/v1/scan/[ustamp].html">https://www.immuniweb.com/radar/api/v1/scan/[ustamp].html</a> - where "ustamp" is an arbitrary UNIX time-stamp (must be an integer). Such construction is done to prevent caching on client side.

#### POST Data Specifications

Field Name	Value
<b>domain</b>	the domain name to be tested.
<b>limit</b>	limit the amount of results shown.
<b>offset</b>	offset if results are limited
<b>no_limit</b>	0 or 1
	value of the token sent by the server if the tested domain is resolved into several IP addresses.
<b>show_test_results</b>	"true" will not show the result in the Recent Tests
<b>recheck</b>	"false" will use results from cache if the server has been tested within the past 24 hours, "true" will perform a new test without looking at the cache.

## Example of Transaction Using CURL

### # New test (not cached)

```
$ curl -XPOST -d 'domain=twitter.com&dnssr=off&a=scan&recheck=false'  
'https://www.immuniweb.com/radar/api/v1/scan/1451425590.html'  
{  
  "debug":true,"job_id":"2a9e1f1bc92dc0c7a4bde930dff488771eea6d36988208d34163c5496227b8dc",  
  "status":"test_started","status_id":1,"message":"Test has started"}  
}
```

### # You need to keep calling this until test is finished

```
$ curl -XPOST -d  
'job_id=2a9e1f1bc92dc0c7a4bde930dff488771eea6d36988208d34163c5496227b8dc'  
'https://www.immuniweb.com/radar/api/v1/get_result/1451425590.html'  
{  
  "job_id":"2a9e1f1bc92dc0c7a4bde930dff488771eea6d36988208d34163c5496227b8dc",  
  "status":"in_progress","status_id":2,"eta":2,"message":"Your test is in progress"}  
}
```

### # New test (cached)

```
$ curl -XPOST -d 'domain=twitter.com&dnssr=off&a=scan&recheck=false'  
'https://www.immuniweb.com/radar/api/v1/scan/1451425590.html'  
  
{  
  "test_id":"c84936eef26eeb8aaef5ffc43f38ddb91adfd90ac27fb416bd0b21fe2edb1004",  
  "status":"test_cached","status_id":3,"message":"Test is cached"}  
}
```

```
$ curl -XPOST -d  
'id=c84936eef26eeb8aaef5ffc43f38ddb91adfd90ac27fb416bd0b21fe2edb1004'  
'https://www.immuniweb.com/radar/api/v1/get_result/1451425590.html'
```

### # Example with error

```
$ curl -XPOST -d 'domain=0.0.0.0&dnssr=off&a=scan&recheck=false'  
'https://www.immuniweb.com/radar/api/v1/scan/1451425590.html'
```

```
{  
  "error":"The domain name does not exist","error_id":9}  
}
```

The output array will be composed of the following main elements that will be detailed later in this document:

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- **meta-information**: containing basic meta-information, such as server info, geolocation, IP address, port, reverse DNS...
- **internals**: contains basic test information, such as title, description etc...
- **results**: containing all information about the test result, such as discovered typosquatting, cybersquatting and phishing domains discovered.
- **notifications**: contains high-level result descriptions.

## Meta-information

Meta-information contains various information about the tested domain,

### "server\_ip":

- Syntax: string
- Always present
- Description: the IP address of the tested domain

### "lat":

- Syntax: float
- Always present
- Description: the latitude of the IP address tested

### "lng":

- Syntax: float
- Always present
- Description: the longitude of the IP address tested

### "city":

- Syntax: string
- Always present
- Description: the city in which the tested server resides

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**"country":**

- Syntax: string
- Always present
- Description: the country in which the IP address resides

**"dnst":**

- Syntax: string
- Always present
- Description: do not show result

**"total\_phishing\_urls\_b1":**

- Syntax: integer
- Always present
- Description: the number of phishing urls found

**"total\_phishing\_urls\_b2":**

- Syntax: integer
- Always present
- Description: the number of typosquatting domains found

**"total\_phishing\_urls\_b4":**

- Syntax: integer
- Always present
- Description: the number of cybersquatting domains found

**"total\_phishing\_urls\_b5":**

- Syntax: integer
- Always present
- Description: the number of social network domains found

**"total\_phishing\_urls\_same\_brand":**

- Syntax: integer

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- Always present
- Description: the total number of discovered phishing urls of the same brand

**"total\_phishing\_urls":**

- Syntax: { value: string, tag: integer }
- Always present
- Description: the total number of discovered phishing urls

**"orig\_url":**

- Syntax: string
- Always present
- Description: the original url that was tested

**"assessment\_date":**

- Syntax: float
- Always present
- Description: the date that the test has taken place on

**"whois\_registrar":**

- Syntax: string
- Always present
- Description: the whois registrar of the tested domain

**"whois\_expiration\_date":**

- Syntax: integer
- Always present
- Description: the whois expiration date of the domain

**"whois\_creation\_date":**

- Syntax: integer
- Always present

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- Description: the date of the whois entry for the domain

**"whois\_last\_updated":**

- Syntax: integer
- Always present
- Description: the last update of whois entry for the domain

**"tld":**

- Syntax: string
- Always present
- Description: the top-level domain

**"total\_runtime":**

- Syntax: float
- Always present
- Description: the amount of time the test took to complete

## Internals

contains basic test information, such as title, description and twitter title. The structure is as follows:

**Syntax:** {title: string, title\_twitter: string, description: string, description\_twitter: string}

Description: the values contain basic test information

**"title":**

- Syntax: string
- Always present
- Description: the title of the test, eg "Trademark Abuse Test of immuniweb.com"

**"title\_twitter":**



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- Syntax: string
- Always present
- Description: the title of the test that will appear on twitter

**"description":**

- Syntax: string
- Always present
- Description: an explanation of the radar test that is being carried out

**"description\_twitter":**

- Syntax: string
- Always present
- Description: test statistics to be displayed on twitter

## Results

This section is a list information about discovered domains, such as cybersquatting, typosquatting, phishing and social networks. The structure is as follows:

**Syntax:**

```
{
  phishing_block1: [
    .....
  ],
  phishing_block2 :[
    {
      .....
    }
  ], phishing_block3: [
    .....
  ],
}
```

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```
phishing_block4: [  
  {  
    .....  
  }  
], phishing_block5: [  
  .....  
],  
phishing_block5_total: [  
  .....  
]  
}
```

**Description:** each phishing\_block corresponds to an array that holds details on the different checks the radar service carry's out.

### **Phishing\_block1**

This list of values is part of 'results' and corresponds to found phishing domains.

"domain":

- Syntax: string
- Always present
- Description: the domain name of the phishing domain

"url":

- Syntax: string
- Always present
- Description: the url of the phishing domain

"ts":

- Syntax: float
- Always present
- Description: the timestamp of the test

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**"country":**

- Syntax: string
- Always present
- Description: the domain name of the phishing domain

**"tld":**

- Syntax: string
- Always present
- Description: the top-level-domain of the phishing domain

**"fuzzer":**

- Syntax: string
- Always present
- Description: the fuzzer used for this check

**"server\_ip":**

- Syntax: string
- Always present
- Description: the IP address of the phishing domain

**"whois\_registrar":**

- Syntax: string
- Always present
- Description: the whois registrar of the phishing domain

**"whois\_expiration\_date":**

- Syntax: String
- Always present
- Description: the whois expiration date of the phishing domain

**"whois\_creation\_date":**

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- Syntax: string
- Always present
- Description: the whois creation date of the phishing domain

**"whois\_last\_updated":**

- Syntax: string
- Always present
- Description: when the phishing domain was last updated in whois

**"points":**

- Syntax: integer
- Always present
- Description: the point score of the phishing domain

**"is\_email\_server":**

- Syntax: bool
- Always present
- Description: indicates if result is an email server

**"is\_web\_server":**

- Syntax: bool
- Always present
- Description: indicates if the result is a web server

**Phishing\_block2**

This list of values is part of 'results' and corresponds to found typosquatting domains.

**"domain":**

- Syntax: string
- Always present
- Description: the domain name of the typosquatting domain

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**"url":**

- Syntax: string
- Always present
- Description: the url of the typosquatting domain

**"ts":**

- Syntax: float
- Always present
- Description: the timestamp of the test

**"country":**

- Syntax: string
- Always present
- Description: the domain name of the typosquatting domain

**"tld":**

- Syntax: string
- Always present
- Description: the top-level-domain of the typosquatting domain

**"fuzzer":**

- Syntax: string
- Always present
- Description: the fuzzer used for this check

**"server\_ip":**

- Syntax: string
- Always present
- Description: the IP address of the typosquatting domain

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**"whois\_registrar":**

- Syntax: string
- Always present
- Description: the whois registrar of the typosquatting domain

**"whois\_expiration\_date":**

- Syntax: String
- Always present
- Description: the whois expiration date of the typosquatting domain

**"whois\_creation\_date":**

- Syntax: string
- Always present
- Description: the whois creation date of the typosquatting domain

**"whois\_last\_updated":**

- Syntax: string
- Always present
- Description: when the typosquatting domain was last updated in whois

**"points":**

- Syntax: integer
- Always present
- Description: the point score of the typosquatting domain

**"is\_email\_server":**

- Syntax: bool
- Always present
- Description: indicates if result is an email server

**"is\_web\_server":**

- Syntax: bool

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- Always present
- Description: indicates if the result is a web server

### **Phishing\_block4**

This list of values is part of 'results' and corresponds to found cybersquatting domains.

#### **"domain":**

- Syntax: string
- Always present
- Description: the domain name of the cybersquatting domain

#### **"url":**

- Syntax: string
- Always present
- Description: the url of the cybersquatting domain

#### **"ts":**

- Syntax: float
- Always present
- Description: the timestamp of the test

#### **"country":**

- Syntax: string
- Always present
- Description: the domain name of the cybersquatting domain

#### **"tld":**

- Syntax: string
- Always present
- Description: the top-level-domain of the cybersquatting domain

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**"fuzzer":**

- Syntax: string
- Always present
- Description: the fuzzer used for this check

**"server\_ip":**

- Syntax: string
- Always present
- Description: the IP address of the cybersquatting domain

**"whois\_registrar":**

- Syntax: string
- Always present
- Description: the whois registrar of the cybersquatting domain

**"whois\_expiration\_date":**

- Syntax: string
- Always present
- Description: the whois expiration date of the cybersquatting domain

**"whois\_creation\_date":**

- Syntax: string
- Always present
- Description: the whois creation date of the cybersquatting domain

**"whois\_last\_updated":**

- Syntax: string
- Always present
- Description: when the cybersquatting domain was last updated in whois

**"points":**



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- Syntax: integer
- Always present
- Description: the point score of the cybersquatting domain

**"is\_email\_server":**

- Syntax: bool
- Always present
- Description: indicates if result is an email server

**" is\_web\_server":**

- Syntax: bool
- Always present
- Description: indicates if the result is a web server

**Phishing\_block5**

This list of values is part of 'results' and corresponds to found social network domains.

**"domain":**

- Syntax: string
- Always present
- Description: the domain name of the social network domain

**"url:**

- Syntax: string
- Always present
- Description: the url of the social network domain

**" ts":**

- Syntax: float
- Always present

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- Description: the timestamp of the test

**"country":**

- Syntax: string
- Always present
- Description: the domain name of the social network domain

**"tld:**

- Syntax: string
- Always present
- Description: the top-level-domain of the social network domain

**"fuzzer":**

- Syntax: string
- Always present
- Description: the fuzzer used for this check

**"server\_ip:**

- Syntax: string
- Always present
- Description: the IP address of the social network domain

**"whois\_registrar":**

- Syntax: string
- Always present
- Description: the whois registrar of the social network domain

**"whois\_expiration\_date":**

- Syntax: string
- Always present
- Description: the whois expiration date of the social network domain

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**"whois\_creation\_date":**

- Syntax: string
- Always present
- Description: the whois creation date of the social network domain

**"whois\_last\_updated":**

- Syntax: string
- Always present
- Description: when the social network domain was last updated in whois

**"points":**

- Syntax: integer
- Always present
- Description: the point score of the social network domain

**"is\_email\_server":**

- Syntax: bool
- Always present
- Description: indicates if result is an email server

**"is\_web\_server":**

- Syntax: bool
- Always present
- Description: indicates if the result is a web server

## Notifications

Contains a textual description and overview of the test results, an integer will correspond to the relevant notifications for the test. The structure is as follows:

**Syntax:** [notification: integer, string]

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### "0":

- Syntax: string
- Always present
- Description: Domain example.com seems to be owned or operated by **example**

### "1":

- Syntax: string
- Always present
- Description: In total we discovered \$number websites that seem to be used to conduct cybersquatting and typosquatting attacks against tested domain name or brand.

### "2":

- Syntax: string
- Always present
- Description: In total we discovered \$number websites that seem to be used to conduct phishing attacks against tested domain name or brand.

## Error handling

If an error occurs, only basic information and an error message will be returned the following way:

```
{ "error": string }  
or  
{ "error": string, "server_info": {  
    "ip": string,  
    "port": integer,
```

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```
"hostname": string,  
"reverse_dns": string  
} }
```

Possible error messages which system can return are:

**error** Test doesn't exist.

**error** API key is not valid. Please double check it.

**error** You have performed N tests in last 3 minutes. The system is currently busy, please try again later.

**error** You have performed N tests in the last 24 hours. The system is currently busy, please try again later.

**error** System is very busy now, please try again later.

**error** You reached the limit of N total running tests. Wait for one to finish, than retry.

**error** The domain name cannot be resolved.

**error** The domain name does not exist.

**error** An error has occurred while checking DNS records of domain.

**error** Error: the resolved IP does not belong to an allowed range.

**error** Only domain names are allowed in queries.

**error** URL points to non-html content.

**error** Could not connect to server.

## Appendix 1: List of Messages values

ID	Value
1	The web server is not currently accessible, test results may be incomplete or inaccurate.
2	Domain #DOMAIN# seems to be owned or operated by #OWNER#.
3	The web server points to non-html content, test results may be incomplete or inaccurate.

## Appendix 3: List of Descriptions values

<b>ID</b>	<b>Value</b>
<b>1</b>	the IP address tested
<b>2</b>	the latitude of the IP address tested
<b>3</b>	the longitude of the IP address tested
<b>4</b>	the city in which the IP address reside
<b>5</b>	the country in which the IP address resides
<b>6</b>	Do not show result
<b>7</b>	the number of phishing urls found
<b>8</b>	the number of typosquatting domains found
<b>9</b>	the number of cybersquatting domains found
<b>10</b>	the number of social network domains found
<b>11</b>	the total number of discovered phishing urls of the same brand
<b>12</b>	the total number of discovered phishing urls
<b>13</b>	the original url that was tested
<b>14</b>	the date that the test has taken place on
<b>15</b>	the whois registrar of the tested domain
<b>16</b>	the whois expiration date of the domain
<b>17</b>	the date of the whois entry for the domain
<b>18</b>	the last update of whois entry for the domain
<b>19</b>	the top-level domain
<b>20</b>	the amount of time the test took to complete
<b>21</b>	the title of the test, eg "Trademark Abuse Test of immuniweb.com"
<b>22</b>	the title of the test that will appear on twitter
<b>23</b>	an explanation of the radar test that is being carried out
<b>24</b>	test statistics to be displayed on twitter
<b>25</b>	test statistics to be displayed on twitter
<b>26</b>	the domain name of the phishing domain
<b>27</b>	the url of the phishing domain
<b>28</b>	The timestamp of the test
<b>29</b>	the domain name of the phishing domain
<b>30</b>	an explanation of the radar test that is being carried out
<b>31</b>	the fuzzer used for this check
<b>32</b>	the IP address of the phishing domain
<b>33</b>	the whois registrar of the phishing domain
<b>34</b>	the whois expiration date of the phishing domain
<b>35</b>	the whois creation date of the phishing domain
<b>36</b>	when the phishing domain was last updated in whois
<b>37</b>	the point score of the phishing domain
<b>38</b>	indicates if result is an email server
<b>39</b>	indicates if the result is a web server
<b>40</b>	the domain name of the typosquatting domain
<b>41</b>	the url of the typosquatting domain
<b>42</b>	The timestamp of the test
<b>43</b>	the domain name of the typosquatting domain
<b>44</b>	an explanation of the radar test that is being carried out

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<b>45</b>	the fuzzer used for this check
<b>46</b>	the IP address of the typosquatting domain
<b>47</b>	the whois registrar of the typosquatting domain
<b>48</b>	the whois expiration date of the typosquatting domain
<b>49</b>	the whois creation date of the typosquatting domain
<b>50</b>	when the typosquatting domain was last updated in whois
<b>51</b>	the point score of the typosquatting domain
<b>52</b>	indicates if the result is an email server
<b>53</b>	indicates if the result is a web server
<b>54</b>	the domain name of the cybersquatting domain
<b>55</b>	the url of the cybersquatting domain
<b>56</b>	The timestamp of the test
<b>57</b>	the domain name of the cybersquatting domain
<b>58</b>	an explanation of the radar test that is being carried out
<b>59</b>	the fuzzer used for this check
<b>60</b>	the IP address of the cybersquatting domain
<b>61</b>	the whois registrar of the cybersquatting domain
<b>62</b>	the whois expiration date of the cybersquatting domain
<b>63</b>	the whois creation date of the cybersquatting domain
<b>64</b>	when the cybersquatting domain was last updated in whois
<b>65</b>	the point score of the cybersquatting domain
<b>66</b>	indicates if the result is an email server
<b>67</b>	indicates if the result in a web server
<b>68</b>	the domain name of the social network domain
<b>69</b>	the url of the social network domain
<b>70</b>	The timestamp of the test
<b>71</b>	the domain name of the social network domain
<b>72</b>	an explanation of the radar test that is being carried out
<b>73</b>	the fuzzer used for this check
<b>74</b>	the IP address of the social network domain
<b>75</b>	the whois registrar of the social network domain
<b>76</b>	the whois expiration date of the social network domain
<b>77</b>	the whois creation date of the social network domain
<b>78</b>	when the social network domain was last updated in whois
<b>79</b>	the point score of the social network domain
<b>80</b>	indicates if the result is an email server
<b>81</b>	indicates if the result is a web server

## Appendix 4: List of Highlights values

<b>ID</b>	<b>Value</b>
<b>1</b>	There are #TOTAL_MALICIOUS# malicious websites for all domains (in different TLDs) of #BRAND#
<b>2</b>	In total we discovered #TOTAL websites that seem to be used to conduct #NAME attacks against tested domain name or brand.

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<b>3</b>	Domain #DOMAIN# seems to be owned or operated by #OWNER#
<b>4</b>	Currently we are not aware of any cybersquatting, typosquatting, phishing domains for #URL domain.

## Appendix 5: List of Error messages

<b>error_id</b>	<b>error</b>
<b>1</b>	You have performed N tests in the last 3 minutes. The system is currently busy, please try again a bit later.
<b>2</b>	You have performed N tests in the last 24 hours. The system is currently busy, please try again a bit later.
<b>3</b>	Sorry, our systems are very busy now, we are working on the issue. Please try again in a few minutes.
<b>4</b>	You reached the limit of N concurring running tests. Please wait until at least one of them is finished.
<b>5</b>	Sorry, your API key is invalid or has expired. Please double-check it or contact us.
<b>7</b>	The domain name cannot be resolved
<b>9</b>	The domain name does not exist
<b>10</b>	An error has occurred while checking DNS records of domain
<b>13</b>	We could not conduct the requested test because a timeout occurred.
<b>14</b>	Arbitrary error from engine.
<b>17</b>	An error occurred while encoding results.
<b>18</b>	Test does not exist.
<b>19</b>	Too many downloads of PDF.
<b>20</b>	Not logged in.
<b>21</b>	Too many downloads of HTML.