

# EXHIBIT 11

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# Qualys API client examples

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 **Version 44**

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**Note: This is unsupported.**

## C#, RestSharp

- API v1
- API v2

## Go Language Example

- AM API

## Groovy, httpbuilder's RESTClient

- API v1
- API v2
- WAS API
- AM API

## Perl, LWP

- API v1 and v2
- WAS API
- AM API

## PHP 5+, SimpleQAPI class

- API v1 and v2
- WAS API

## PHP 4+, curl

- API v1 and v2
- WAS API
- AM API

## Python 2.x, qualysapi

- API v1

- API v2
- WAS API
- AM API
- Pagination

#### **Ruby, rest-client**

- API v1
- API v2
- WAS
- AM

#### **Ruby, httparty**

- API v1
- API v2
- WAS
- AM

#### **VB.NET, vb\_net\_rest\_sharp**

#### **VB Script, getXMLFile**

- API v1
- API v2

#### **Web browser, Chrome, Postman**

- Install and configure POSTMAN
- How to use sample collections

#### **Windows Powershell 3.0**

- API v1
- WAS API
- AM API

#### **Purpose**

This is a community driven document to demonstrate examples of how to connect to the Qualys API using various platforms.

## **C#, RestSharp**

The open source library assists in making calls to all API versions:

<http://restsharp.org/>

## API v1

Sample code:

```
1
2 using System;
3
4 using System.Collections.Generic;
5
6 using System.Xml;
7
8 using System.Xml.Linq;
9
10 using System.Linq;
11
12 using System.Text;
13
14 using RestSharp;
15
16
17
18 // Set up REST client to connect to US Platform 1.
19
20 var client = new RestClient("
21 https://qualysapi.qualys.com
22 ");
23
24
25 // Set up credentials.
26
27 client.Authenticator = new HttpBasicAuthenticator("username", "password");
28
29 //
30
31 // GET request
32
33 // See QualysGuard version.
34
35 //
36
37 var request = new RestRequest("msp/about.php");
```

4/13/2019

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```
38
39 IRestResponse response = client.Execute(request);
40
41 // Response contains the XML file.
42
43
44 Console.WriteLine (response.Content);
45
46
47 //
48
49 // POST request.
50
51 // Download raw scan results of scan/1234567890.12345.
52
53 //
54
55 // This method does not work!
56
57 // var request_post = new RestRequest ("msp/scan_report.php", Method.POST);
58
59 // request_post.AddParameter("ref", "scan/1390453521.15910");
60
61 //
62
63 // This method does work.
64
65 var endpoint = String.Format("msp/scan_report.php?{0}={1}",
66
67     "ref", "scan/1234567890.12345");
68
69 var request_post = new RestRequest (endpoint, Method.POST);
70
71 response = client.Execute(request_post);
72
73 // Print out headers to see remaining calls against API limits.
74
75 foreach (var header in response.Headers){
76
77     Console.WriteLine(header);
78
79 }
80
81 // Print scan results.
```

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