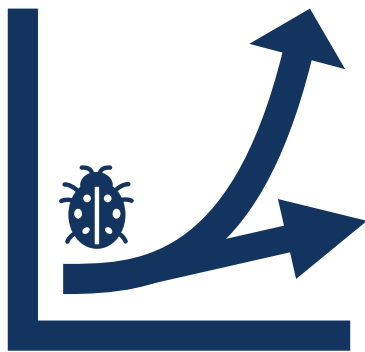


Growth of the NVD: API Keys, documentation, and more!

Andrew Artz | Federal Cybersecurity and Privacy Professionals Forum | February 15, 2022

The NVD is usually NIST's second most visited resource, but during periods of increased cyber stress, the NVD is visited more frequently than even time.gov



The NVD sees around 1,000,000 root transactions and 90,000 unique IP addresses each day, with both numbers trending upwards in 2021



The NVD sees requests originating from nearly all countries, with industrialized countries making up the vast majority of NVD's users

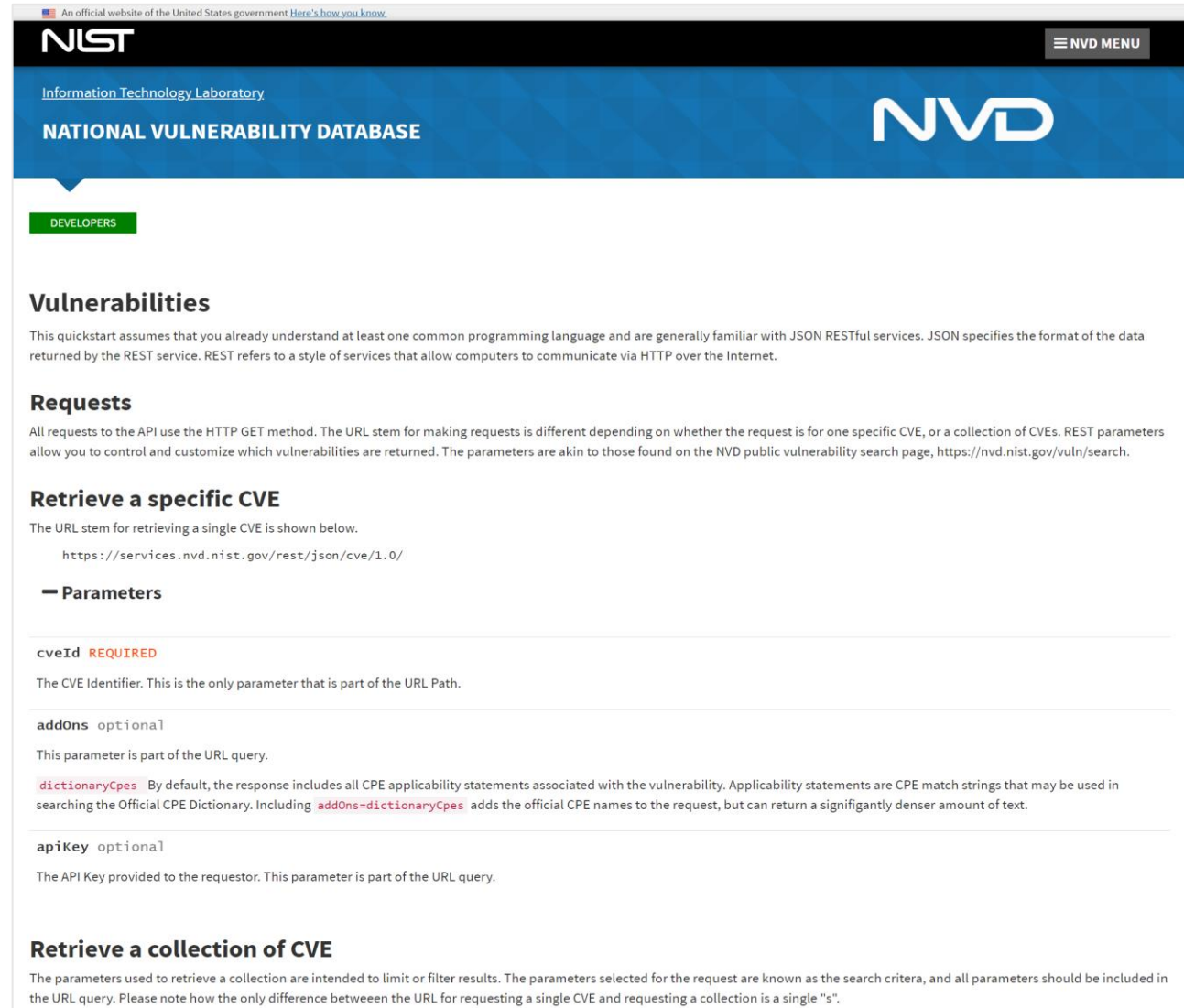


The NVD sees organizations representing state, local, tribal, and territorial governments (SLTT), as well as all sectors of critical infrastructure

Updated API documentation (CVE + CPE)

NIST

- Easier to locate
- Updated documentation
- Simplified explanations
- New request examples
- Easier for our team to update



An official website of the United States government Here's how you know

NIST Information Technology Laboratory **NVD**

NATIONAL VULNERABILITY DATABASE

DEVELOPERS

Vulnerabilities

This quickstart assumes that you already understand at least one common programming language and are generally familiar with JSON RESTful services. JSON specifies the format of the data returned by the REST service. REST refers to a style of services that allow computers to communicate via HTTP over the Internet.

Requests

All requests to the API use the HTTP GET method. The URL stem for making requests is different depending on whether the request is for one specific CVE, or a collection of CVEs. REST parameters allow you to control and customize which vulnerabilities are returned. The parameters are akin to those found on the NVD public vulnerability search page, <https://nvd.nist.gov/vuln/search>.

Retrieve a specific CVE

The URL stem for retrieving a single CVE is shown below.

```
https://services.nvd.nist.gov/rest/json/cve/1.0/
```

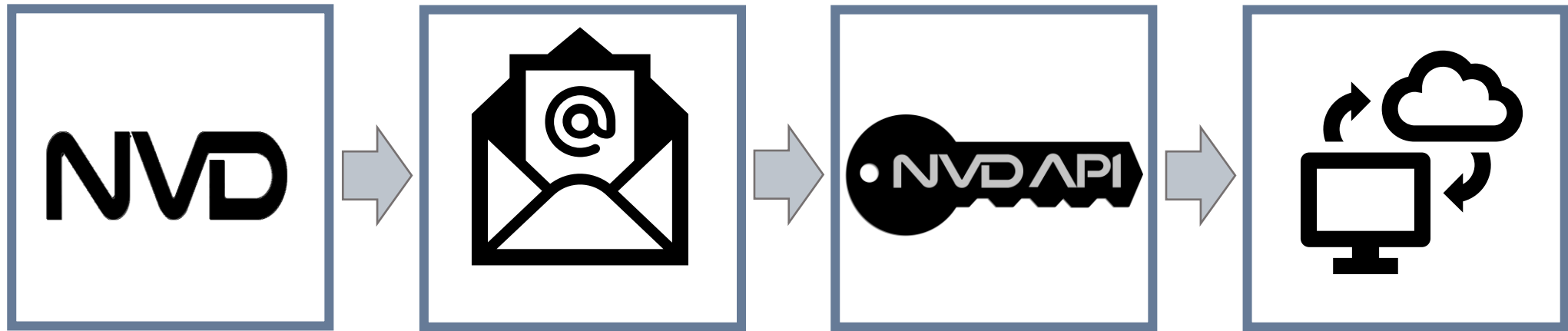
Parameters

cveId REQUIRED
The CVE Identifier. This is the only parameter that is part of the URL Path.
addOns optional
This parameter is part of the URL query.
dictionaryCpes optional
By default, the response includes all CPE applicability statements associated with the vulnerability. Applicability statements are CPE match strings that may be used in searching the Official CPE Dictionary. Including <code>addOns=dictionaryCpes</code> adds the official CPE names to the request, but can return a significantly denser amount of text.
apiKey optional
The API Key provided to the requestor. This parameter is part of the URL query.

Retrieve a collection of CVE

The parameters used to retrieve a collection are intended to limit or filter results. The parameters selected for the request are known as the search criteria, and all parameters should be included in the URL query. Please note how the only difference between the URL for requesting a single CVE and requesting a collection is a single "s".

Requesting your API Key



<https://nvd.nist.gov/developers/request-an-api-key>

STAY IN TOUCH

CONTACT US

nvd@nist.gov



Questions?