VINCE API

The VINCE API is a work in progress. Please provide feedback through VINCE or GitHub.

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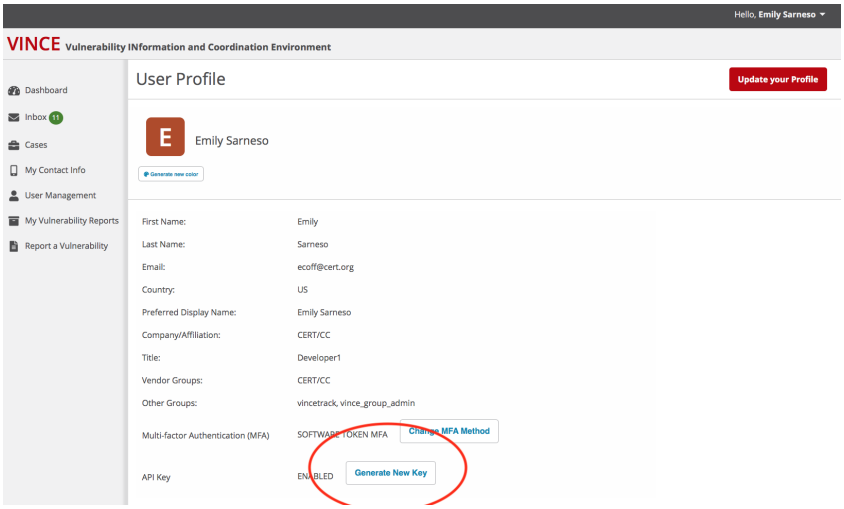
Authentication

1. Log in to VINCE.
2. Go to your User Profile.
3. Scroll down to "Generate API Key".
4. Copy they API key to a safe place, you will not be able to access it again. If lost, you need to regenerate a new one.
5. Use the API key in the headers of your request as shown below.




```
headers={'Authorization': "Token {}".format(token)}
```

Code Examples

List groups (organizations) you belong to

```
# get information about organizations you belong to:
api = 'https://kb.cert.org/vince/comm/api/vendor/'
headers={'Authorization': "Token {}".format(token) }
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: /vince/comm/api/vendor #get information about vendors you belong to
[   {   'emails': ['test@example.com'],
        'id': 3548,
        'users': ['vince.user'],
        'vendor_name': 'VendorCorp'},
    {   'emails': ['test@example.com'],
        'id': 3551,
        'users': ['vince.user'],
        'vendor_name': 'Testing Co'},
    {   'emails': ['test@example.com', 'test3@example.com'],
        'id': 3549,
        'users': ['vince.user', 'Vince User'],
        'vendor_name': 'Testing Vendor'}]
```

List cases you are participating in

```
# get a list of your cases
headers={'Authorization': "Token {}".format(token)}
api = 'https://kb.cert.org/vince/comm/api/cases/'
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: /vince/comm/api/cases # get a list of cases involved in
[   {   'created': '2020-06-11T18:51:48.204903Z',
        'due_date': None,
        'status': 'Active',
        'summary': 'test',
        'title': 'test',
        'vuid': '782161'},
    {   'created': '2020-04-28T19:48:50.216317Z',
        'due_date': '2018-07-23T14:20:09Z',
        'status': 'Inactive',
        'summary': 'TechSmash firmware or operating system software drivers '
                   'may not sufficiently validate elliptic curve parameters '
                   'used to generate public keys during a Diffie-Hellman key '
                   'exchange, which may allow a remote attacker to obtain the '
                   'encryption key used by the device',
        'title': 'TechSmash implementations may not sufficiently validate '
                 'elliptic curve parameters during Diffie-Hellman key exchange',
        'vuid': '3123125'}]
```

Get case metadata

```
# get information about VU#701852
api = 'https://kb.cert.org/vince/comm/api/case/701852/'
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: vince/comm/api/case/701852/ # get information about a specific case
{   'created': '2020-06-11T18:51:48.204903Z',
    'due_date': None,
    'status': 'Active',
    'summary': 'test',
    'title': 'test',
    'vuid': '785701'}
```

Get message posts for case

```
# get all posts for case VU#701852
api = 'https://kb.cert.org/vince/comm/api/case/701852/posts/'
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: vince/comm/api/case/701852/posts/ # get all posts for a specific case
[   {   'author': 'vince.user',
        'content': 'The [draft vulnerability '
                   'note](http://localhost:8000/vince/comm/case/18/notedraft/) '
                   'has been updated.',
        'created': '2020-11-17T19:13:07.866230Z',
        'pinned': True},
    {   'author': 'vince.user',
        'content': 'Please [view this draft vulnerability '
                   'note](http://localhost:8000/vince/comm/case/18/notedraft/).',
        'created': '2020-11-17T19:07:56.624450Z',
        'pinned': True},
    {   'author': 'vince.user',
        'content': 'test 2',
        'created': '2020-10-29T19:49:33.422875Z',
        'pinned': False},
    {   'author': 'vince.user',
        'content': 'test 1',
        'created': '2020-10-29T19:49:30.434164Z',
        'pinned': False}]
```

Get original report for case

```
# get the original report for VU#701852
api = 'https://kb.cert.org/vince/comm/api/case/701852/report/'
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: /vince/comm/case/701582/report/ # get report for a specific case
{   'contact_email': 'joebob@vendor.example.com',
    'contact_name': 'Joe Bob',
    'contact_org': 'VendorExample',
    'contact_phone': '5551231234',
    'date_submitted': '2020-06-08T20:01:47.896419Z',
    'disclosure_plans': '',
    'exploit_references': '',
    'product_name': 'test',
    'product_version': 'v. 12.3',
    'public_references': '',
    'share_release': True,
    'vendor_name': 'Test Vendor',
    'vul_description': 'This is the description',
    'vul_disclose': True,
    'vul_discovery': 'This is the discovery.',
    'vul_exploit': 'This is the exploit',
    'vul_exploited': True,
    'vul_impact': 'This is the impact',
    'vul_public': True}
```

List vulnerabilities for case

```
# get the vuls for VU#701852
api = 'https://kb.cert.org/vince/comm/api/case/701852/vuls/'
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: /vince/comm/case/701582/vuls/ # get vuls for a specific case
[   {   'cve': None,
        'date_added': '2020-11-19T21:43:17.210726Z',
        'description': 'This is another vul without a cve.',
        'name': 'VU#785701.2'},
    {   'cve': '2020-19293',
        'date_added': '2020-10-22T15:30:11.888074Z',
        'description': 'Test this is a vul.',
        'name': 'CVE-2020-19293'}]
```

List vendors for case

```
# get all the vendors involved in VU#701582 (also gets their status and statements)
api = 'https://kb.cert.org/vince/comm/api/case/701852/vendors/'
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: /vince/comm/case/701582/vendors/ # get vendors for a specific case
[   {   'cert_addendum': None,
        'date_added': '2020-11-20T14:40:24.080886Z',
        'references': 'http://www.example.com\nhttps://www.example.org',
        'statement': 'Test',
        'statement_date': '2020-11-23T19:50:44.813809Z',
        'status': 'Unknown',
        'vendor': 'VendorCorp'},
    {   'cert_addendum': None,
        'date_added': '2020-10-08T18:27:41.526942Z',
        'references': 'http://www.example.com\nhttps://www.example.org',
        'statement': 'Test',
        'statement_date': '2020-11-19T21:26:32.399730Z',
        'status': 'Affected',
        'vendor': 'Testing Co'}]
```

List vendors including status and statement for each vulnerability

```
# get all the vendors and their status/statement/references for each specific vul
api = f'https://kb.cert.org/vince/comm/api/case/701582/vendors/vuls/'
headers={'content-type':'application/json', 'Authorization': "Token {}".format(token) }
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: /vince/comm/case/701582/vendors/vuls/ # get vendors status for specific vuls
[   {   'references': 'http://www.example.com\nhttps://www.example.org',
        'statement': 'Test',
        'statement_date': '2020-11-19T21:47:44.239683Z',
        'status': 'Affected',
        'vendor': 'Testing Co',
        'vulnerability': 'VU#785701.2'},
    {   'references': 'http://www.example.com\nhttps://www.example.org',
        'statement': 'This is my statement',
        'statement_date': '2020-10-22T15:38:11.859615Z',
        'status': 'Not Affected',
        'vendor': 'Testing Co',
        'vulnerability': 'CVE-2020-19293'},
    {   'references': '',
        'statement': '',
        'statement_date': '2020-11-20T15:23:18.997947Z',
        'status': 'Unknown',
        'vendor': 'VendorCorp',
        'vulnerability': 'VU#785701.2'},
    {   'references': '',
        'statement': '',
        'statement_date': '2020-11-20T15:23:18.938232Z',
        'status': 'Unknown',
        'vendor': 'VendorCorp',
        'vulnerability': 'CVE-2020-19293'}]
```

Get Vulnerability Note text (if it exists)

```
# get the vulnerability note, if available
api = f'https://kb.cert.org/vince/comm/api/case/701582/note'
headers={'content-type':'application/json', 'Authorization': "Token {}".format(token) }
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
#API: /vince/comm/api/case/710582/note/ # get draft vul note
{   'content': '### Overview\r\n'
               '\r\n'
               'Testing API so need some content.\r\n'
               '\r\n'
               '\r\n'
               '### Description\r\n'
               '\r\n'
               '### Impact\r\n'
               'The complete impact of this vulnerability is not yet known.\r\n'
               '\r\n'
               '### Solution\r\n'
               'The CERT/CC is currently unaware of a practical solution to '
               'this problem.\r\n'
               '\r\n'
               '### Acknowledgements\r\n'
               'Thanks to the reporter who wishes to remain anonymous.\r\n'
               '\r\n'
               'This document was written by Emily Sarneso.',
    'datefirstpublished': None,
    'dateupdated': '2020-11-17T19:13:07.755453Z',
    'published': False,
    'references': ['www.example.org', 'www.example.com'],
    'revision': 2,
    'title': 'test',
    'vuid': '785701'}
```

Get Vulnerability Advisory in CSAF format

```
# get the vulnerability note, if available
api = f'https://kb.cert.org/vince/comm/api/case/495801/csaf/'
headers={'content-type':'application/json', 'Authorization': "Token {}".format(token) }
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```


```
#API: /vince/comm/api/case/495801/csaf/ # get draft vul note {
    "document": {
        "acknowledgments": [
            {
                "urls": [
                    "https://kb.cert.org/vuls/id/495801#acknowledgements"
                ]
            }
        ],
        "category": "CERT/CC Vulnerability Note",
        "csaf_version": "2.0",
        "notes": [
            {
                "category": "summary",
                "text": "### Overview\r\n\r\nVersions 1.1.5 and earlier of the mu HTTP deamon ......",
                "title": "Summary"
            }
        ],
        "publisher": {
            "category": "coordinator",
            "contact_details": "Email: cert@cert.org, Phone: +1412 268 5800",
            "issuing_authority": "CERT/CC under DHS/CISA https://www.cisa.gov/cybersecurity also see https://kb.
cert.org/ ",
            "name": "CERT/CC",
            "namespace": "https://kb.cert.org/"
        },
        "references": [
            {
                "url": "https://vuls.cert.org/confluence/display/Wiki/Vulnerability+Disclosure+Policy",
                "summary": "CERT/CC vulnerability disclosure policy"
            },
            {
                "summary": "CERT/CC document released",
                "category": "self",
                "url": "https://kb.cert.org/vuls/id/495801"
            },
            {
                "url": "https://derekabdine.com/blog/2022-arris-advisory",
                "summary": "https://derekabdine.com/blog/2022-arris-advisory"
            },
            {
                "url": "https://www.cisa.gov/uscert/ncas/tips/ST15-002",
                "summary": "https://www.cisa.gov/uscert/ncas/tips/ST15-002"
            }
        ],
        "title": "muhttpd versions 1.1.5 and earlier are vulnerable to path traversal",
        "tracking": {
            "current_release_date": "2022-08-05 20:02:52.605648+00:00",
            "generator": {
                "engine": {
                    "name": "VINCE",
                    "version": "1.50.3"
                }
            },
            "id": "VU#495801",
            "initial_release_date": "2022-08-04 18:22:24.069865+00:00",
            "revision_history": [
                {
                    "date": "2022-08-05 20:02:52.605648+00:00",
                    "number": "1.20220805200252.2",
                    "summary": "Released on 2022-08-05 20:02:52.605648+00:00"
                }
```

```
            ],
            "status": "final",
            "version": "1.20220805200252.2"
        }
    },
    "vulnerabilities": [
        {
            "title": "The base firmware for this modem contains an MIT-licensed web server from an individual
developer called \"muhttpd.",
            "notes": [
                {
                    "category": "summary",
                    "text": "The base firmware for this modem contains an MIT-licensed web server from an
individual developer called \"muhttpd.\" This server has been unmaintained since 2010. The server has a path
traversal vulnerability that allows any file on the modem to be read as root"
                }
            ],
            "cve": "CVE-2022-31793",
            "ids": [
                {
                    "system_name": "CERT/CC V Identifier ",
                    "text": "VU#495801"
                }
            ],
            "product_status": {
                "known_not_affected": [
                    "CSAFPID-eb07f774-32d4-11ed-aeca-0aa659cdc35f"
                ]
            }
        }
    ],
    "product_tree": {
        "branches": [
            {
                "category": "vendor",
                "name": "AT&T",
                "product": {
                    "name": "AT&T Products",
                    "product_id": "CSAFPID-eb07f774-32d4-11ed-aeca-0aa659cdc35f"
                }
            },
            {
                "category": "vendor",
                "name": "SaskTel",
                "product": {
                    "name": "SaskTel Products",
                    "product_id": "CSAFPID-eb082dc0-32d4-11ed-aeca-0aa659cdc35f"
                }
            }
        ]
    }
}
```


Update vendor status

```
#update vendor status
api = f'https://kb.cert.org/vince/comm/api/case/{case}/vendor/statement/'
data = [{'vendor': 3548,
        'status':'Not Affected',
        'references':["http://www.test.gov", "https://www.google.com"],
        'share':True,
        'vulnerability':'CVE-2020-19293',
        'statement': 'This is my statement'},
        {'vendor': 3548,
        'status':'Affected',
        'statement':"Test",
        'references':["http://www.test.gov","https://www.google.com"],
        'share':True,
        'vulnerability':'VU#785701.2'}]
r = requests.post(api, headers=headers, data=json.dumps(data))
print(r.text)
```

```
#update vendor status
api = f'https://kb.cert.org/vince/comm/api/case/{case}/vendor/statement/'
data = [{'vendor': 3548,   # vendor ID only required if user belongs to multiple vendors in a case
        'status':'Not Affected',  # required: ['Affected', 'Not Affected', 'Unknown']
        'references':["http://www.test.gov", "https://www.google.com"],  # not required, must be a list
        'share':True, # not required, default = False
        'vulnerability':'CVE-2020-19293', # required - must be in the form 'CVE-xxxx-xxxxx' or 'VU#xxxxxx.n'
        'statement': 'This is my statement'}]  # not required
```

Look up CVE IDs (must have access to case)

```
# lookup CVE-2021-55555 - must have access to case otherwise 404
api = f'https://kb.cert.org/vince/comm/api/vuls/cve/2020-19293/'
headers={'content-type':'application/json', 'Authorization': "Token {}".format(token) }
r = requests.get(api, headers=headers, stream=True)
print(r.text)
```

```
API: CVE Lookup: https://kb.cert.org/vince/comm/api/cve/2021-55555/

{   'case': {   'created': '2020-03-11T18:56:14.975973Z',
                'due_date': '2020-03-25T0000Z',
                'status': 'Active',
                'summary': 'This is a summary',
                'title': 'This is a title',
                'vuid': '123456'},
    'note': 'NOT Public',
    'vendors': [ {   'references': '',
                     'statement': '',
                     'statement_date': '2020-11-20T11:05:07.603524Z',
                     'status': 'Unknown',
                     'vendor': 'Test Vendor',
                     'vulnerability': 'CVE-2021-55555'}],
    'vulnerability': {   'cve': '2021-55555',
                         'date_added': '2020-03-11T20:37:51.629151Z',
                         'description': 'This is a description of the vulnerability',
                         'name': 'CVE-2021-55555'}}
```