

SUSPECT = '010.8.8.8'

print(ipaddress.ip_network(SUSPECT, strict=True))

```
BAD_IP = ipaddress.ip_address(SUSPECT)
print('http://'+str(BAD_IP))
print(str(subprocess.check_output("ping -W3 -v -c1 "+str(SUSPECT), shell=True, universal_newlines=True).strip()))
print(str(subprocess.check_output("ping -W3 -v -c1 "+str(BAD_IP), shell=True, universal_newlines=True).strip()))
```



- 2019-03-20 Issue created in https://bugs.python.org/issue36384
- 2021-03-29 Researchers discover vulnerability
- 2021-03-29 Vendor notified
- 2021-03-29 CVE requested
- 2021-04-30 CVE Assigned CVE-2021-29921 https://bugs.python.org/issue36384#msg392423
- 2021-04-30 CVE published

Links

https://github.com/python/cpython

https://github.com/sickcodes/security/blob/master/advisories/SICK-2021-014.md

https://sick.codes/sick-2021-014

https://python-security.readthedocs.io/vuln/ipaddress-ipv4-leading-zeros.html

https://bugs.python.org/issue36384

https://docs.python.org/3/library/ipaddress.html

python/cpython#12577

python/cpython#25099

https://github.com/python/cpython/blob/63298930fb531ba2bb4f23bc3b915dbf1e17e9e1/Misc/NEWS.d/3.8.0a4.rst

Researchers

Joel Croteau: https://github.com/TV4Fun

Victor Viale: https://github.com/koroeskohr || https://twitter.com/koroeskohr

Sick Codes: https://github.com/sickcodes || https://twitter.com/sickcodes

Kelly Kaoudis: https://github.com/kaoudis || https://twitter.com/kaoudis

John Jackson https://www.twitter.com/johnjhacking

Nick Sahler: https://github.com/nicksahler \parallel https://twitter.com/tensor_bodega

Christian Heimes: https://github.com/tiran
Victor Stinner: https://github.com/vstinner

CVE Links

https://sick.codes/sick-2021-014

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-29921

https://nvd.nist.gov/view/vuln/detail?vulnId=CVE-2021-29921