



# CVE-2021-41817

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

## Summary

<b>CVE</b>	CVE-2021-41817
<b>State</b>	PUBLIC
<b>Assigner</b>	cve@mitre.org
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2022-01-01 05:15:00 UTC
<b>Updated</b>	2024-01-24 05:15:00 UTC
<b>Description</b>	Date.parse in the date gem through 3.2.0 for Ruby allows ReDoS (regular expression Denial of Service) via a long string. T

## Risk And Classification

### Problem Types: CWE-1333

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	<a href="#">Debian</a>	<a href="#">Debian Linux</a>	10.0	All	All	All
Operating System	<a href="#">Debian</a>	<a href="#">Debian Linux</a>	11.0	All	All	All
Operating System	<a href="#">Debian</a>	<a href="#">Debian Linux</a>	9.0	All	All	All
Operating System	<a href="#">Fedoraproject</a>	<a href="#">Fedora</a>	34	All	All	All
Operating System	<a href="#">Fedoraproject</a>	<a href="#">Fedora</a>	35	All	All	All
Application	<a href="#">Opensuse</a>	<a href="#">Factory</a>	-	All	All	All
Operating System	<a href="#">Opensuse</a>	<a href="#">Leap</a>	15.2	All	All	All
Operating System	<a href="#">Redhat</a>	<a href="#">Enterprise Linux</a>	7.0	All	All	All
Operating System	<a href="#">Redhat</a>	<a href="#">Enterprise Linux</a>	8.0	All	All	All
Application	<a href="#">Redhat</a>	<a href="#">Software Collections</a>	-	All	All	All
Application	<a href="#">Ruby-lang</a>	<a href="#">Date</a>	All	All	All	All
Application	<a href="#">Ruby-lang</a>	<a href="#">Date</a>	3.2.0	All	All	All
Application	<a href="#">Ruby-lang</a>	<a href="#">Ruby</a>	All	All	All	All
Operating System	<a href="#">Suse</a>	<a href="#">Linux Enterprise</a>	12.0	All	All	All
Operating System	<a href="#">Suse</a>	<a href="#">Linux Enterprise</a>	15.0	All	All	All

## References

Reference	Source	Link	Tags
[SECURITY] Fedora 35 Update: ruby-3.0.4-153.fc35 - package-announce - Fedora Mailing-Lists		<a href="https://lists.fedoraproject.org">lists.fedoraproject.org</a>	
[SECURITY] Fedora 35 Update: ruby-3.0.4-153.fc35 - package-announce - Fedora Mailing-Lists	FEDORA	<a href="https://lists.fedoraproject.org">lists.fedoraproject.org</a>	
HackerOne	MISC	<a href="https://hackerone.com">hackerone.com</a>	
[SECURITY] Fedora 34 Update: ruby-3.0.4-153.fc34 - package-announce - Fedora Mailing-Lists		<a href="https://lists.fedoraproject.org">lists.fedoraproject.org</a>	
CVE-2021-41817: Regular Expression Denial of Service Vulnerability of Date Parsing Methods	CONFIRM	<a href="https://www.ruby-lang.org">www.ruby-lang.org</a>	
Ruby: Multiple vulnerabilities (GLSA 202401-27) — Gentoo security		<a href="https://security.gentoo.org">security.gentoo.org</a>	
[SECURITY] Fedora 34 Update: ruby-3.0.4-153.fc34 - package-announce - Fedora Mailing-Lists	FEDORA	<a href="https://lists.fedoraproject.org">lists.fedoraproject.org</a>	
CVE Program record	CVE.ORG	<a href="https://www.cve.org">www.cve.org</a>	canon
NVD vulnerability detail	NVD	<a href="https://nvd.nist.gov">nvd.nist.gov</a>	canon

No vendor comments have been submitted for this CVE.

### Legacy QID Mappings

[159635](#) Oracle Enterprise Linux Security Update for ruby:2.6 (ELSA-2022-0543)

[160020](#) Oracle Enterprise Linux Security Update for ruby:2.5 (ELSA-2022-5779)

[160091](#) Oracle Enterprise Linux Security Update for ruby:2.7 (ELSA-2022-6447)

[160095](#) Oracle Enterprise Linux Security Update for ruby:3.0 (ELSA-2022-6450)

[178965](#) Debian Security Update for ruby2.3 (DLA 2853-1)

[179050](#) Debian Security Update for ruby2.7 (DSA 5067-1)

[179051](#) Debian Security Update for ruby2.5 (DSA 5066-1)

[198635](#) Ubuntu Security Notification for Ruby Vulnerabilities (USN-5235-1)

[240090](#) Red Hat Update for ruby:2.6 (RHSA-2022:0544)

[240092](#) Red Hat Update for ruby:2.6 (RHSA-2022:0543)

[240116](#) Red Hat Update for rh-ruby26-ruby security (RHSA-2022:0708)

[240156](#) Red Hat Update for ruby:2.6 (RHSA-2022:0582)

[240571](#) Red Hat Update for ruby:2.5 (RHSA-2022:5779)

[240659](#) Red Hat Update for ruby:3.0 security (RHSA-2022:6450)

[240661](#) Red Hat Update for ruby:2.7 security (RHSA-2022:6447)

[240720](#) Red Hat Update for rh-ruby27-ruby security (RHSA-2022:6856)

[240723](#) Red Hat Update for rh-ruby30-ruby security (RHSA-2022:6855)

282660 Fedora Security Update for ruby (FEDORA-2022-82a9edac27)
282661 Fedora Security Update for ruby (FEDORA-2022-8cf0124add)
296062 Oracle Solaris 11.4 Support Repository Update (SRU) 43.113.3 Missing (CPUJAN2022)
356181 Amazon Linux Security Advisory for ruby : ALASRUBY3.0-2023-003
356252 Amazon Linux Security Advisory for ruby : ALASRUBY2.6-2023-002
356463 Amazon Linux Security Advisory for ruby : ALAS2RUBY3.0-2023-003
356731 Amazon Linux Security Advisory for ruby : ALAS2-2023-2345
500617 Alpine Linux Security Update for ruby
502024 Alpine Linux Security Update for ruby
504377 Alpine Linux Security Update for ruby
671873 EulerOS Security Update for ruby (EulerOS-SA-2022-1951)
690226 Free Berkeley Software Distribution (FreeBSD) Security Update for rubygem-date (6916ea94-4628-11ec-bbe2-0800270512f4)
710844 Gentoo Linux Ruby Multiple Vulnerabilities (GLSA 202401-27)
752103 SUSE Enterprise Linux Security Update for ruby2.5 (SUSE-SU-2022:1512-1)
755145 SUSE Enterprise Linux Security Update for ruby2.5 (SUSE-SU-2023:4176-1)
900505 Common Base Linux Mariner (CBL-Mariner) Security Update for ruby (7104)
901507 Common Base Linux Mariner (CBL-Mariner) Security Update for ruby (7110-1)
940455 AlmaLinux Security Update for ruby:2.6 (ALSA-2022:0543)
940614 AlmaLinux Security Update for ruby:2.5 (ALSA-2022:5779)
940657 AlmaLinux Security Update for ruby:2.7 (ALSA-2022:6447)
940849 AlmaLinux Security Update for ruby:3.0 (ALSA-2022:6450)
960464 Rocky Linux Security Update for ruby:2.5 (RLSA-2022:5779)
960588 Rocky Linux Security Update for ruby:2.7 (RLSA-2022:6447)
960814 Rocky Linux Security Update for ruby:2.6 (RLSA-2022:0543)

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