CVE-2021-31353

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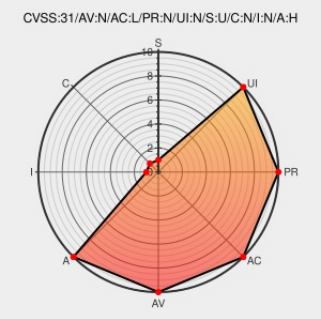
CVE-2021-31353 - advisory for JSA11218

Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Junos from Juniper contain the following vulnerability:

An Improper Handling of Exceptional Conditions vulnerability in Juniper Networks Junos OS and Junos OS Evolved allows an attacker to inject a specific BGP update, causing the routing protocol daemon (RPD) to crash and restart, leading to a Denial of Service (DoS). Continued receipt and processing of the BGP update will create a sustained Denial of Service (DoS) condition. This issue affects very specific versions of Juniper Networks Junos OS: 19.3R3-S2; 19.4R3-S3; 20.2 versions 20.2R2-S3 and later, prior to 20.2R3-S2; 20.3 versions 20.3R2 and later, prior to 20.3R3; 20.4 versions 20.4R2 and later, prior to 20.4R3; 21.1 versions prior to 21.1R2. Juniper Networks Junos OS 20.1 is not affected by this issue. This issue also affects Juniper Networks Junos OS Evolved: All versions prior to 20.4R2-S3-EVO, 20.4R3-EVO; 21.1-EVO versions prior to 21.1R2-EVO; 21.2-EVO versions prior to 21.2R2-EVO.

CVE-2021-31353 has been assigned by sirt@juniper.net to track the vulnerability - currently rated as HIGH severity.

Juniper SIRT is not aware of any malicious exploitation of this vulnerability.

Vulnerability Patch/Work Around

This issue can be mitigated in two ways: 1) ensure that TTL propagation is either enabled or disabled in both places below: protocols mpls no-propagate-ttl routing-instance no-vrf-propagate-ttl 2) Disable multipath: routing-instance routing-options multipath

CVSS3 Score: 7.5 - HIGH

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	NONE	NONE	HIGH

CVSS2 Score: 5 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
2021-10 Security Bulletin: Junos OS and Junos OS Evolved: RPD core upon receipt of specific BGP update (CVE-2021-31353) - Juniper Networks	kb.juniper.net text/html	CONFIRM kb.juniper.net/JSA11218

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Juniper	Junos	19.3	r3-s2	All	All
Operating System	Juniper	Junos	19.4	r3-s3	All	All
Operating System	Juniper	Junos	20.2	r2-s3	All	All
Operating System	Juniper	Junos	20.2	r3	All	All
Operating System	Juniper	Junos	20.2	r3-s1	All	All
Operating System	Juniper	Junos	20.3	r2	All	All
Operating System	Juniper	Junos	20.3	r2-s1	All	All
Operating System	Juniper	Junos	20.4	r2	All	All
Operating System	Juniper	Junos	20.4	r2-s1	All	All
Operating System	Juniper	Junos	21.1	r1	All	All
Operating System	Juniper	Junos	21.1	r1-s1	All	All
Operating	Juniper	Junos Os Evolved	20.4	r1	All	All

System						
Operating System	Juniper	Junos Os Evolved	20.4	r1-s1	All	All
Operating System	Juniper	Junos Os Evolved	20.4	r1-s2	All	All
Operating System	Juniper	Junos Os Evolved	20.4	r2	All	All
Operating System	Juniper	Junos Os Evolved	20.4	r2-s1	All	All
Operating System	Juniper	Junos Os Evolved	20.4	r2-s2	All	All
Operating System	Juniper	Junos Os Evolved	21.1	r1	All	All
Operating System	Juniper	Junos Os Evolved	21.1	r1-s1	All	All
Operating System	Juniper	Junos Os Evolved	21.2	r1	All	All
Operating System	Juniper	Junos Os Evolved	21.2	r1-s1	All	All
Operating System	Juniper	Junos Os Evolved	All	All	All	All

cpe:2.3:o:juniper:junos:19.3:r3-s2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:19.4:r3-s3:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.2:r2-s3:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.2:r3:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.2:r3-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.3:r2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.3:r2-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.4:r2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:20.4:r2-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.1:r1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos:21.1:r1-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:20.4:r1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:20.4:r1-s1:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:20.4:r1-s2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:20.4:r2:*:*:*:*:*:*:

cpe:2.3:o:juniper:junos_os_evolved:20.4:r2-s1:*:*:*:*:*:*:*

cpe:2.3:o:juniper:junos_os_evolved:20.4:r2-s2:*:*:*:*:*:*:*

cpe:2.3:o:juniper:junos_os_evolved:21.1:r1:*:*:*:*:*:*:*

cpe:2.3:o:juniper:junos_os_evolved:21.1:r1-s1:*:*:*:*:*:*:*

cpe:2.3:o:juniper:junos_os_evolved:21.2:r1:*:*:*:*:*:*:*

cpe:2.3:o:juniper:junos_os_evolved:21.2:r1-s1:*:*:*:*:*:*:*

cpe:2.3:o:juniper:junos_os_evolved:*:*:*:*:*:*:*:*:*

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@softek_jp	Juniper Networks Junos OS の BGP アップデートの処理にサービスを妨害される問題 (CVE-2021-31353) [40239] sid.softek.jp/content/show/4… #SIDfm #脆弱性情報	2021-10-14 08:30:16
@CVEreport	CVE-2021-31353 : An Improper Handling of Exceptional Conditions vulnerability in Juniper Networks Junos OS and Juno… twitter.com/i/web/status/1…	2021-10-19 18:28:23

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