



CVE-2022-22170

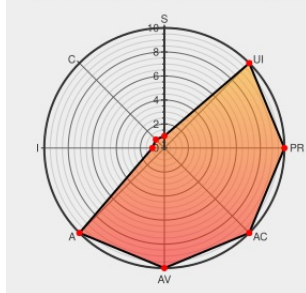
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CVE-2022-22170 - advisory for JSA11277

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H



Certain versions of [Junos](#) from [Juniper](#) contain the following vulnerability:

A Missing Release of Resource after Effective Lifetime vulnerability in the Packet Forwarding Engine (PFE) of Juniper Networks Junos OS allows an unauthenticated networked attacker to cause a Denial of Service (DoS) by sending specific packets over VXLAN which cause heap memory to leak and on exhaustion the PFE to reset. The heap

memory utilization can be monitored with the command: `user@host> show chassis fpc` This issue affects: Juniper Networks Junos OS 19.4 versions prior to 19.4R2-S6, 19.4R3-S6; 20.1 versions prior to 20.1R3-S2; 20.2 versions prior to 20.2R3-S3; 20.3 versions prior to 20.3R3-S1; 20.4 versions prior to 20.4R3; 21.1 versions prior to 21.1R3; 21.2 versions prior to 21.2R2. This issue does not affect versions of Junos OS prior to 19.4R1.

CVE-2022-22170 has been assigned by [J 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

There are no viable workarounds for this issue.

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
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NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
2022-01 Security Bulletin: Junos OS and Junos OS Evolved: Specific packets over VXLAN cause memory leak and/or FPC reset (CVE-2022-22170, CVE-2022-22171) - Juniper Networks	kb.juniper.net text/html	 CONFIRM kb.juniper.net/JSA11277
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Related QID Numbers

43925 Juniper Network Operating System (Junos OS) Denial of Service (DoS) Vulnerability (JSA11277)
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Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Juniper	Junos	19.4	r1	All	All
Operating System	Juniper	Junos	19.4	r1-s1	All	All
Operating System	Juniper	Junos	19.4	r1-s2	All	All
Operating System	Juniper	Junos	19.4	r1-s3	All	All
Operating System	Juniper	Junos	19.4	r1-s4	All	All
Operating System	Juniper	Junos	19.4	r2	All	All
Operating System	Juniper	Junos	19.4	r2-s1	All	All
Operating System	Juniper	Junos	19.4	r2-s2	All	All
Operating System	Juniper	Junos	19.4	r2-s3	All	All
Operating System	Juniper	Junos	19.4	r2-s4	All	All
Operating System	Juniper	Junos	19.4	r2-s5	All	All
Operating System	Juniper	Junos	19.4	r3	All	All
Operating System	Juniper	Junos	19.4	r3-s1	All	All

Operating System	Juniper	Junos	19.4	r3-s1	All	All
Operating System	Juniper	Junos	19.4	r3-s2	All	All
Operating System	Juniper	Junos	19.4	r3-s3	All	All
Operating System	Juniper	Junos	19.4	r3-s4	All	All
Operating System	Juniper	Junos	19.4	r3-s5	All	All
Operating System	Juniper	Junos	19.4	r3-s6	All	All
Operating System	Juniper	Junos	20.1	r1	All	All
Operating System	Juniper	Junos	20.1	r1-s1	All	All
Operating System	Juniper	Junos	20.1	r1-s2	All	All
Operating System	Juniper	Junos	20.1	r1-s3	All	All
Operating System	Juniper	Junos	20.1	r1-s4	All	All
Operating System	Juniper	Junos	20.1	r2	All	All
Operating System	Juniper	Junos	20.1	r2-s1	All	All
Operating System	Juniper	Junos	20.1	r2-s2	All	All
Operating System	Juniper	Junos	20.1	r3	All	All
Operating System	Juniper	Junos	20.1	r3-s1	All	All
Operating System	Juniper	Junos	20.1	r3-s2	All	All
Operating System	Juniper	Junos	20.2	r1	All	All
Operating System	Juniper	Junos	20.2	r1-s1	All	All
Operating System	Juniper	Junos	20.2	r1-s2	All	All
Operating System	Juniper	Junos	20.2	r1-s3	All	All
Operating System	Juniper	Junos	20.2	r2	All	All
Operating System	Juniper	Junos	20.2	r2-s1	All	All
Operating System	Juniper	Junos	20.2	r2-s2	All	All
Operating System	Juniper	Junos	20.2	r2-s3	All	All
Operating System	Juniper	Junos	20.2	r2-s4	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	20.2	r3-s2	All	All
Operating System	Juniper	Junos	20.2	r3-s3	All	All
Operating System	Juniper	Junos	20.2	r3-s4	All	All
Operating System	Juniper	Junos	20.2	r3-s5	All	All
Operating System	Juniper	Junos	20.2	r3-s6	All	All

Operating System	Juniper	Junos	20.2	r2-s2	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	20.2	r3-s2	All	All
Operating System	Juniper	Junos	20.3	r1	All	All
Operating System	Juniper	Junos	20.3	r1-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	20.3	r3	All	All
Operating System	Juniper	Junos	20.3	r3-s1	All	All
Operating System	Juniper	Junos	20.4	r1	All	All
Operating System	Juniper	Junos	20.4	r1-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	20.4	r2-s2	All	All
Operating System	Juniper	Junos	20.4	r3	All	All
Operating System	Juniper	Junos	21.1	r1	All	All
Operating System	Juniper	Junos	21.1	r1-s1	All	All
Operating System	Juniper	Junos	21.1	r2	All	All
Operating System	Juniper	Junos	21.1	r2-s1	All	All
Operating System	Juniper	Junos	21.2	r1	All	All
Operating System	Juniper	Junos	21.2	r1-s1	All	All

Operating System	Juniper	Junos	21.3	r1	All	All
cpe:2.3:o:juniper:junos:19.4:r1::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r1-s1::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r1-s2::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r1-s3::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r1-s4::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r2::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r2-s1::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r2-s2::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r2-s3::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r2-s4::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r2-s5::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r3::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r3-s1::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r3-s2::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r3-s3::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r3-s4::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r3-s5::*:~::~:						
cpe:2.3:o:juniper:junos:19.4:r3-s6::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r1::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r1-s1::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r1-s2::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r1-s3::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r1-s4::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r2::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r2-s1::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r2-s2::*:~::~:						
cpe:2.3:o:juniper:junos:20.1:r3::*:~::~:						

```
cpe:2.3:o:juniper:junos:20.1:r3-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.1:r3-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r1-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r1-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r1-s3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r2-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.2:r2-s2:*:*:*:*:*:
```

```
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:20.2:r3-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.3:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.3:r1-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:20.3:r3:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.3:r3-s1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.4:r1:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.4:r1-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:20.4:r2-s2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:20.4:r3:*:*:*:*:*:
```

```
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:21.1:r2:*:*:*:*:*:
```

```
cpe:2.3:o:juniper:junos:21.1:r2-s1:*.*.~*~*~*~*~*~*
```

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

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

cpe:2.3:o:juniper:junos:21.3:r1:*****:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @softek_jp	Juniper Networks Junos OS の PFE の処理にサービスを妨害される複数の問題 (CVE-2022-22170, CVE-20 [40992] sid.softek.jp/content/show/4... #SIDfm #脆弱性情報	2022-01-14 01:04:04
 @CVEreport	CVE-2022-22170 : A Missing Release of Resource after Effective Lifetime vulnerability in the Packet Forwarding Engi... twitter.com/i/web/status/1...	2022-01-19 00:31:07
 @SecRiskRptSME	RT: CVE-2022-22170 A Missing Release of Resource after Effective Lifetime vulnerability in the Packet Forwarding E... twitter.com/i/web/status/1...	2022-01-19 08:33:43
 /r/netcve	CVE-2022-22170	2022-01-19 01:38:40

← Previous ID

Next ID→