

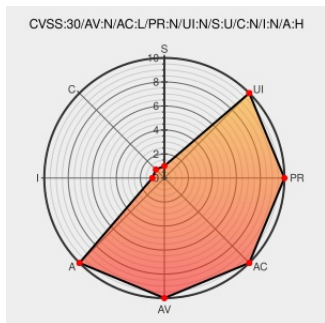


CVE-2019-0049

Published on: 07/11/2019 12:00:00 AM UTC

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CVE-2019-0049 - advisory for JSA10943

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

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

On Junos devices with the BGP graceful restart helper mode enabled or the BGP graceful restart mechanism enabled, a certain sequence of BGP session restart on a remote peer that has the graceful restart mechanism enabled may cause the local routing protocol daemon (RPD) process to crash and restart. Repeated crashes of the RPD

process can cause prolonged Denial of Service (DoS). Graceful restart helper mode for BGP is enabled by default. No other Juniper Networks products or platforms are affected by this issue. Affected releases are Juniper Networks Junos OS: 16.1 versions prior to 16.1R7-S3; 16.2 versions prior to 16.2R2-S9; 17.1 versions prior to 17.1R3; 17.2 versions prior to 17.2R3; 17.2X75 versions prior to 17.2X75-D105; 17.3 versions prior to 17.3R3-S2; 17.4 versions prior to 17.4R1-S7, 17.4R2-S2, 17.4R3; 18.1 versions prior to 18.1R3-S2; 18.2 versions prior to 18.2R2; 18.2X75 versions prior to 18.2X75-D12, 18.2X75-D30; 18.3 versions prior to 18.3R1-S4, 18.3R2. Junos OS releases prior to 16.1R1 are not affected.

CVE-2019-0049 has been assigned by [JJ](#) 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 prevented by disabling the BGP graceful restart mechanism, including graceful restart helper mode: [protocols bgp graceful-restart disable] Furthermore, the risk associated with this issue can be mitigated by limiting BGP sessions only from trusted peers.

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	
2019-07 Security Bulletin: Junos OS: RPD process crashes when BGP peer restarts (CVE-2019-0049) - Juniper Networks				Patch Vendor Advisory kb.juniper.net text/html		 CONFIRM kb.juniper.net/JSA10943	
By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to comment@cve.report.							
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	16.1	-	All	All	
Operating System	Juniper	Junos	16.1	r1	All	All	
Operating System	Juniper	Junos	16.1	r2	All	All	
Operating System	Juniper	Junos	16.1	r3	All	All	
Operating System	Juniper	Junos	16.1	r3-s10	All	All	
Operating System	Juniper	Junos	16.1	r3-s11	All	All	
Operating System	Juniper	Junos	16.1	r4	All	All	
Operating System	Juniper	Junos	16.1	r5	All	All	
Operating System	Juniper	Junos	16.1	r6	All	All	
Operating System	Juniper	Junos	16.2	-	All	All	

Operating System	Juniper	Junos	16.2	r1	All	All
Operating System	Juniper	Junos	16.2	r2	All	All
Operating System	Juniper	Junos	16.2	r2-s1	All	All
Operating System	Juniper	Junos	16.2	r2-s2	All	All
Operating System	Juniper	Junos	16.2	r2-s5	All	All
Operating System	Juniper	Junos	16.2	r2-s6	All	All
Operating System	Juniper	Junos	16.2	r2-s7	All	All
Operating System	Juniper	Junos	16.2	r2-s8	All	All
Operating System	Juniper	Junos	17.1	-	All	All
Operating System	Juniper	Junos	17.1	r1	All	All
Operating System	Juniper	Junos	17.1	r2-s1	All	All
Operating System	Juniper	Junos	17.1	r2-s10	All	All
Operating System	Juniper	Junos	17.1	r2-s2	All	All
Operating System	Juniper	Junos	17.1	r2-s3	All	All
Operating System	Juniper	Junos	17.1	r2-s4	All	All
Operating System	Juniper	Junos	17.1	r2-s5	All	All
Operating System	Juniper	Junos	17.1	r2-s6	All	All
Operating System	Juniper	Junos	17.1	r2-s7	All	All
Operating System	Juniper	Junos	17.2	-	All	All
Operating System	Juniper	Junos	17.2	r1	All	All
Operating System	Juniper	Junos	17.2	r1-s2	All	All
Operating System	Juniper	Junos	17.2	r1-s4	All	All
Operating System	Juniper	Junos	17.2	r1-s7	All	All

Operating System	Juniper	Junos	17.2	r2	All	All
Operating System	Juniper	Junos	17.2	r2-s6	All	All
Operating System	Juniper	Junos	17.2x75	All	All	All
Operating System	Juniper	Junos	17.2x75	-	All	All
Operating System	Juniper	Junos	17.2x75	d102	All	All
Operating System	Juniper	Junos	17.2x75	d92	All	All
Operating System	Juniper	Junos	17.3	-	All	All
Operating System	Juniper	Junos	17.3	r1	All	All
Operating System	Juniper	Junos	17.3	r2	All	All
Operating System	Juniper	Junos	17.3	r2-s1	All	All
Operating System	Juniper	Junos	17.3	r2-s2	All	All
Operating System	Juniper	Junos	17.3	r3-s1	All	All
Operating System	Juniper	Junos	17.4	-	All	All
Operating System	Juniper	Junos	17.4	r1	All	All
Operating System	Juniper	Junos	17.4	r1-s1	All	All
Operating System	Juniper	Junos	17.4	r1-s2	All	All
Operating System	Juniper	Junos	17.4	r1-s4	All	All
Operating System	Juniper	Junos	17.4	r1-s6	All	All
Operating System	Juniper	Junos	17.4	r2	All	All
Operating System	Juniper	Junos	17.4	r2-s1	All	All
Operating System	Juniper	Junos	18.1	-	All	All
Operating System	Juniper	Junos	18.1	r1	All	All
Operating System	Juniper	Junos	18.1	r2	All	All

Operating System	Juniper	Junos	18.1	r2-s1	All	All
Operating System	Juniper	Junos	18.1	r2-s2	All	All
Operating System	Juniper	Junos	18.1	r3	All	All
Operating System	Juniper	Junos	18.2	-	All	All
Operating System	Juniper	Junos	18.2	r1	All	All
Operating System	Juniper	Junos	18.2	r1-s3	All	All
Operating System	Juniper	Junos	18.2	r1-s4	All	All
Operating System	Juniper	Junos	18.2	r1-s5	All	All
Operating System	Juniper	Junos	18.2	r2-s1	All	All
Operating System	Juniper	Junos	18.2x75	-	All	All
Operating System	Juniper	Junos	18.2x75	d20	All	All
Operating System	Juniper	Junos	18.3	-	All	All
Operating System	Juniper	Junos	18.3	r1	All	All
Operating System	Juniper	Junos	18.3	r1-s1	All	All
Operating System	Juniper	Junos	18.3	r1-s2	All	All
Operating System	Juniper	Junos	18.3	r1-s3	All	All
Operating System	Juniper	Junos	16.1	-	All	All
Operating System	Juniper	Junos	16.1	r1	All	All
Operating System	Juniper	Junos	16.1	r2	All	All
Operating System	Juniper	Junos	16.1	r3	All	All
Operating System	Juniper	Junos	16.1	r3-s10	All	All
Operating System	Juniper	Junos	16.1	r3-s11	All	All
Operating Svsstem	Juniper	Junos	16.1	r4	All	All

System						
Operating System	Juniper	Junos	16.1	r5	All	All
Operating System	Juniper	Junos	16.1	r6	All	All
Operating System	Juniper	Junos	16.2	-	All	All
Operating System	Juniper	Junos	16.2	r1	All	All
Operating System	Juniper	Junos	16.2	r2	All	All
Operating System	Juniper	Junos	16.2	r2-s1	All	All
Operating System	Juniper	Junos	16.2	r2-s2	All	All
Operating System	Juniper	Junos	16.2	r2-s5	All	All
Operating System	Juniper	Junos	16.2	r2-s6	All	All
Operating System	Juniper	Junos	16.2	r2-s7	All	All
Operating System	Juniper	Junos	16.2	r2-s8	All	All
Operating System	Juniper	Junos	17.1	-	All	All
Operating System	Juniper	Junos	17.1	r1	All	All
Operating System	Juniper	Junos	17.1	r2-s1	All	All
Operating System	Juniper	Junos	17.1	r2-s10	All	All
Operating System	Juniper	Junos	17.1	r2-s2	All	All
Operating System	Juniper	Junos	17.1	r2-s3	All	All
Operating System	Juniper	Junos	17.1	r2-s4	All	All
Operating System	Juniper	Junos	17.1	r2-s5	All	All
Operating System	Juniper	Junos	17.1	r2-s6	All	All
Operating System	Juniper	Junos	17.1	r2-s7	All	All
Operating System	Juniper	Junos	17.2	-	All	All
Operating System	Juniper	Junos	17.2	r1	All	All

System						
Operating System	Juniper	Junos	17.2	r1-s2	All	All
Operating System	Juniper	Junos	17.2	r1-s4	All	All
Operating System	Juniper	Junos	17.2	r1-s7	All	All
Operating System	Juniper	Junos	17.2	r2	All	All
Operating System	Juniper	Junos	17.2	r2-s6	All	All
Operating System	Juniper	Junos	17.2x75	All	All	All
Operating System	Juniper	Junos	17.2x75	-	All	All
Operating System	Juniper	Junos	17.2x75	d102	All	All
Operating System	Juniper	Junos	17.2x75	d92	All	All
Operating System	Juniper	Junos	17.3	-	All	All
Operating System	Juniper	Junos	17.3	r1	All	All
Operating System	Juniper	Junos	17.3	r2	All	All
Operating System	Juniper	Junos	17.3	r2-s1	All	All
Operating System	Juniper	Junos	17.3	r2-s2	All	All
Operating System	Juniper	Junos	17.3	r3-s1	All	All
Operating System	Juniper	Junos	17.4	-	All	All
Operating System	Juniper	Junos	17.4	r1	All	All
Operating System	Juniper	Junos	17.4	r1-s1	All	All
Operating System	Juniper	Junos	17.4	r1-s2	All	All
Operating System	Juniper	Junos	17.4	r1-s4	All	All
Operating System	Juniper	Junos	17.4	r1-s6	All	All
Operating System	Juniper	Junos	17.4	r2	All	All
Operating System	Juniper	Junos	17.4	r2-s1	All	All

cpe:2.3:o:juniper:junos:16.1:r3-s10:~::~~::~~::~~::~::
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cpe:2.3:o:juniper:junos:16.1:r4:~::~~::~~::~~::~::
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cpe:2.3:o:juniper:junos:16.1:r6:~::~~::~~::~~::~::
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cpe:2.3:o:juniper:junos:17.4:r1-s6:~::~~::~~::
cpe:2.3:o:juniper:junos:17.4:r2:~::~~::~~::
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cpe:2.3:o:juniper:junos:17.4:r1-s1:*****:
cpe:2.3:o:juniper:junos:17.4:r1-s2:*****:
cpe:2.3:o:juniper:junos:17.4:r1-s4:*****:
cpe:2.3:o:juniper:junos:17.4:r1-s6:*****:
cpe:2.3:o:juniper:junos:17.4:r2:*****:
cpe:2.3:o:juniper:junos:17.4:r2-s1:*****:
cpe:2.3:o:juniper:junos:18.1:-:*****:
cpe:2.3:o:juniper:junos:18.1:r1:*****:
cpe:2.3:o:juniper:junos:18.1:r2:*****:
cpe:2.3:o:juniper:junos:18.1:r2-s1:*****:
cpe:2.3:o:juniper:junos:18.1:r2-s2:*****:
cpe:2.3:o:juniper:junos:18.1:r3:*****:
cpe:2.3:o:juniper:junos:18.2:-:*****:
cpe:2.3:o:juniper:junos:18.2:r1:*****:
cpe:2.3:o:juniper:junos:18.2:r1-s3:*****:
cpe:2.3:o:juniper:junos:18.2:r1-s4:*****:
cpe:2.3:o:juniper:junos:18.2:r1-s5:*****:
cpe:2.3:o:juniper:junos:18.2:r2-s1:*****:
cpe:2.3:o:juniper:junos:18.2x75:-:*****:
cpe:2.3:o:juniper:junos:18.2x75:d20:*****:
cpe:2.3:o:juniper:junos:18.3:-:*****:
cpe:2.3:o:juniper:junos:18.3:r1:*****:
cpe:2.3:o:juniper:junos:18.3:r1-s1:*****:
cpe:2.3:o:juniper:junos:18.3:r1-s2:*****:
cpe:2.3:o:juniper:junos:18.3:r1-s3:*****:

No vendor comments have been submitted for this CVE

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