

# Release Notes

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## vJunos-switch Release 23.1R1®

### Introduction

These release notes accompany vJunos Release 23.1R1 for vJunos-switch. These Release Notes describes new and changed features, known limitations, and open and resolved problems in the software.

The vJunos-switch is Juniper Networks® virtual Junos OS based switch. This virtual form factor switch is introduced to make it easy for users to create instant virtual lab topologies for training, demo, proof of concept, script development, configuration generation and testing the control plane in a virtual lab environments, without having to build labs with Juniper Networks' physical switches based on Junos OS.

You can find release notes for all Junos OS releases at [https://www.juniper.net/documentation/product/us/en/junos-os#cat=release\\_notes](https://www.juniper.net/documentation/product/us/en/junos-os#cat=release_notes).

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# What's New

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Learn about new features introduced in this release for vJunos-switch.

## Platform

Starting in vJunos 23.1R1 Release, we support vJunos-switch, a virtual version of a Juniper switch that runs the Junos OS. vJunos-switch is built using EX9214 as a reference Juniper switch.

vJunos-switch is available for download free of charge and supported through Juniper's Community pages by Engineering, PLM and TME teams. We do not provide JTAC support for vJunos-switch.

You can install the software components of the vJunos-switch on an industry-standard x86 server running a Linux KVMhypervisor (Ubuntu 18.04, 20.04, 22.04 or Debian 11 Bullseye).

You can configure and manage the vJunos-switch in the same way as you manage a physical switch.

See [vJunos-switch Deployment Guide for KVM](#).

## Known Limitations

Learn about known limitations in this release for vJunos-switch.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online [Junos Problem Report Search](#) application.

- Has a single Routing Engine and single FPC architecture.
- In-service software upgrade (ISSU) is not supported.
- Attachment or detachment of interfaces when it is running is not supported.

- SR-IOV for the vJunos-switch use cases and throughput is not supported.
- Due to its nested architecture, the vJunos-switch cannot be used in any deployments that launch the instances from within a VM.
- Supports a maximum bandwidth of 100 Mbps over all the interfaces.

**NOTE:** Bandwidth license is not required and we do not provide bandwidth licenses for vJunos-switch.

- You cannot upgrade the Junos OS on a running system. Instead, you must deploy a new instance with the new software.
- Multicast
- VRRP
- MC-LAG
- IGMP
- Port Mirroring
- Storm Control
- VXLAN seamless stitching for DCI
- IPv6 Fabric Underlay and Overlay
- Enhanced Loop Detection using CFM

## Open Issues

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Learn about open issues in this release for vJunos-switch.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online [Junos Problem Report Search](#) application.

## Interfaces

- You cannot configure ports higher than ge-0/0/63 on vJunos-switch.

As a workaround, set the number of ports to 64 or less using the **# set chassis fpc 0 pic 0 number-of-ports 64** command. PR1720270

## Platform and Infrastructure

- Kernel reports hypervisor issues and stops Junos (VCP) emulation. As a workaround, restart or redeploy the vJunos-switch VM. PR1722146
- CLI configuration changes that are communicated to the data plane can create console noise for around a minute or so. The noise messages show up only on the console.

As a workaround, login to vJunos-switch though SSH to avoid the noise messages. PR1722073

- If you run a shutdown command such as **virsh shutdown** on vJunos-switch while the nested Virtual Control Plane (VCP) VM is busy writing to its disk, then this disk can get corrupted and terminates the VM immediately.

After running the shutdown command if you restart vJunos-switch, then, it is possible that vJunos-switch cannot recover the corrupted disk. The corruption of disk can negatively impact the behavior of vJunos-switch.

As a workaround, power off the VCP using the **request system power-off** Junos CLI command before executing the virsh shutdown commands to shutdown the entire vJunos-switch. PR1723639

- When VLAN configuration is applied, the dot1xd process consumes 100 percent of CPU and remains at the same level of consumption.

As a workaround, disable 1x authentication in configuration on all interfaces to avoid this condition using the **set protocols dot1x authenticator interface all disable** command.

## Finding More Information

- **Feature Explorer**—Juniper Networks Feature Explorer helps you to explore software feature information to find the right software release and product for your network.

<https://apps.juniper.net/feature-explorer/>

- **PR Search Tool**—Keep track of the latest and additional information about Junos OS open defects and issues resolved.

<https://prsearch.juniper.net/InfoCenter/index?page=prsearch>

## Requesting Technical Support

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There is no technical support available for vJunos-switch through the Juniper Networks Technical Assistance Center (JTAC).

If you are a customer with an active Juniper Care or Partner Support Services support contract, or are covered under warranty, and need post-sales technical support, you can access our vJunos-switch community page for assistance or queries at:

## Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Join and participate in the Juniper Networks Community Forum: <https://www.juniper.net/company/communities/>
- Search for known bugs: <https://prsearch.juniper.net/>

- Find product documentation: <https://www.juniper.net/documentation/>
- Find solutions and answer questions using our Knowledge Base: <https://kb.juniper.net/>
- Download the latest versions of software and review release notes: <https://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <https://kb.juniper.net/InfoCenter/>

## Revision History

18 April 2023—Revision 1, vJunos-switch Release 23.1R1.

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