

# CN2 Tested Integrations

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Cloud-Native Contrail Networking (CN2) tested integrations are a defined set of specifically tested integration points between technologies that represent the most common combinations that Juniper customers are deploying in their clusters.

As part of the product release process, Juniper performs a full range of tests. These integrations are fully tested and validated by Juniper. Any issues we identify as part of this testing process are documented in the CN2 release notes. See the [Cloud-Native Contrail \(CN2\) Documentation](#) page to find the release notes for your software release.

You can run CN2 with alternative configurations, not explicitly listed in this document or as part of the product documentation. Contact your Juniper account team for information about alternative configurations not listed here.

## CN2 Tested Orchestrator Platforms

Juniper has tested CN2 on number of orchestrator platforms. [Table 1 on page 2](#) provides a list of orchestrator platforms we've tested based on software release.

The minor version of the orchestrator platform (for example, Kubernetes 1.22.3, 1.22.4, and so on) represents the minimal version we recommend within a given release. For any minor version tested, the documented features related to this integration are expected to work. If the version you tested is not working, contact [Juniper Support](#) for help.

In [Table 1 on page 2](#) and [Table 2 on page 4](#) the fields are defined, as follows:

- Not supported (NS)—Juniper is not currently (or at time of release) offering and testing any integration between this combination of products.

- Not available (N/A)—This combination of products was not available at time of release and was not tested.
- Interim upgrade only—This combination is supported only for transient situations encountered during an upgrade process. Unlike a direct upgrade where you upgrade a system to the desired release in one step, you may need to perform a multi-stage upgrade process where you upgrade a system to an intermediate (interim) release before you can upgrade to the desired final release.

**Table 1: CN2 Tested Orchestrator Platforms and Versions** *(Continued)*

Orchestrator Platform	23.3	23.2	23.1	22.4	22.3	22.2	22.1
Red Hat OpenShift 4.12	4.12.13	4.12.13	4.12.0	Interim upgrade only	N/A	N/A	N/A
EKS v1.24	1.24.10-eks-48e63af	1.24.10-eks-48e63af	NS	NS	NS	NS	NS
RKE2 v1.27	1.27.1+rke2r1	1.27.1+rke2r1	NS	NS	NS	NS	NS
KubeVirt version	0.59.0-jnpr	0.59.0-jnpr	0.58.0-jnpr	0.58.0-jnpr	0.48.0-jnpr	NS	NS
DPDK version	21.11	21.11	21.11	21.11	NS	NS	NS
Apstra version	4.1.2-269	4.1.2-269	4.1.2-269	4.0.2-142	NS	NS	NS

## CN2 Tested Linux OS and Kernel Versions

Table 2 on page 4 provides a list of Linux OS and kernel versions we've fully tested based on a software release.

For a complete list of available kernels for a given release (starting with Release 23.1), see the following:

- [Available Kernels for 23.3](#)
- [Available Kernels for 23.2](#)
- [Available Kernels for 23.1](#)

Table 2: CN2 Tested Linux OS and Kernel Versions

Linux OS/ Kernel Version	23.3	23.2	23.1	22.4	22.3	22.2	22.1
Ubuntu 20.04.3	5.4.0-135- generic	5.4.0-135- generic	5.4.0-135- generic	5.4.0-135- generic	5.4.0-97- generic	5.4.0-97- generic	5.4.0-97- generic
Ubuntu 22.04	5.15.0-81- generic	5.15.0-81- generic	5.15.0-67- generic	N/A	N/A	N/A	N/A
RHEL CoreOS 4.8	(4.8.39) 4.18.0-305 .45.1.el8_4. x86_64	(4.8.39) 4.18.0-305 .45.1.el8_4. x86_64	(4.8.39) 4.18.0-305 .45.1.el8_4. x86_64	(4.8.39) 4.18.0-305 .19.1.el8_4. x86_64	(4.8.39) 4.18.0-305 .19.1.el8_4. x86_64	(4.8.39) 4.18.0-305 .45.1.el8_4. x86_64	(4.8.39) 4.18.0-305 .45.1.el8_4. x86_64
RHEL CoreOS 4.10	(4.10.31) 4.18.0-348 .23.1.el8_5. x86_64	(4.10.31) 4.18.0-348 .23.1.el8_5. x86_64	(4.10.31) 4.18.0-348 .23.1.el8_5. x86_64	(4.10.31) 4.18.0-305 .62.1.el8_4. x86_64	(4.10.31) 4.18.0-305 .45.1.el8_4. x86_64	N/A	N/A
RHEL CoreOS 4.12	(4.12.13) 4.18.0-372 .40.1.el8_6. x86_64	(4.12.13) 4.18.0-372 .40.1.el8_6. x86_64	(4.12.0) 4.18.0-305 .62.1.el8_4. x86_64	N/A	N/A	N/A	N/A
EKS v1.24.10	5.10.167-1 47.601.am zn2.x86_64	5.10.167-1 47.601.am zn2.x86_64	5.10.167-1 47.601.am zn2.x86_64	N/A	N/A	N/A	N/A

## CN2 Tested NICs

Table 3 on page 5 list the Network Interface Cards (NICs) tested by Juniper.

Table 3: CN2 Tested NICs

NIC	Mode	23.3	23.2	23.1	22.4
Intel E810/ E810 (CQDA2T)	Kernel	tested	tested	tested	tested
	DPDK	tested	tested	tested	tested
	SRIOV—vRouter bypass + coexist	not tested	not tested	not tested	not tested
Intel XXV710, X710, 82599	Kernel	tested	tested	tested	tested
	DPDK	tested	tested	tested	tested
	SRIOV—vRouter bypass + coexist	tested	tested	tested	tested
Intel PAC N6000 (Smart NIC)	Kernel	not tested	not tested	not tested	not tested
	DPDK	tested	not tested	not tested	not tested
	SRIOV—vRouter bypass + coexist	not tested	not tested	not tested	not tested

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