



Red Hat

CNF Certification Test failures

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Table 1. Revision History

Version	Date	Who	Changes
1.0	September 7, 2023	David Rabkin	Initial Version

Table 2. Terminology

Acronym	Meaning
CNF	Containerized Network Function
OCP	OpenShift Container Platform
RHCOS	Red Hat Enterprise Linux CoreOS operating system
RHEL	Red Hat Enterprise Linux operating system

Overview

A major part of Telco partner certification is [CNF Certification Test](#). These test cases are specifically designed to verify whether the deployment of the Telco partner's solution on Red Hat OpenShift follows the [CNF Best Practices](#) and the [Operator Best Practices](#). By conducting these tests, we ensure that the implementation aligns with the recommended standards and guidelines for optimal performance and compatibility.

In the suite, there are [88 test cases](#), consisting of both mandatory and optional cases. These cases are divided among nine different suites.

Operators

We conducted the [CNF Certification Test](#) on over two hundred of [Red Hat's operators](#) on OCP 4.13. Consequently, we have detected an average of approximately thirty failures per operator. For additional details, please refer to the [CNF Report for Operators on OCP 4.13](#). You can use the operator name filter to narrow down your search.

Failures

The first priority should be addressing the most commonly required mandatory tests:

- `platform-alteration-tainted-node-kernel` [1]
- `access-control-security-context-non-root-user-check`
- `observability-termination-policy`
- `platform-alteration-isredhat-release`

[1] A known bug exists in OCP 4.12, specifically within RHCOS 8.6, causing test failures on one or more master nodes. Further details can be found in the [Tainted Kernel Tech Preview](#). There is another [known bug](#) present in OCP 4.13. We should differentiate between taints originating from our side (ideally none) and those arising from the CNF under test.

The failures are categorized by operators in the [CNF Report for Operators on OCP 4.13](#). This method enables the filtering of failures based on specific operators.