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CentOS Integration SIG



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## CentOS Integration SIG

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# Overview



## Introduction

Integration is verifying that products and services built on top of RHEL or CentOS Stream will continue to work on CentOS Stream and the next release of RHEL and will not break on package updates.

As RHEL content becomes available only after the release, RHEL-based services traditionally use a *catching-up integration* pattern: people have to adjust their products and services to work on new RHEL after the update is shipped. Adjusting the services takes time, eating into the supported RHEL lifecycle period. It also reduces the options for how we can deal with breaking changes.

CentOS Stream provides a way to enable *forward-looking integration*: you can do the integration early during the development before the change is shipped to the CentOS Stream or RHEL repositories. This allows us to prevent or at least prepare better for any breaking changes, which might be shipped via CentOS Stream or RHEL updates.

## Purpose of the SIG

Provide a shared space to develop and maintain tooling and knowledge base on collaborative gating and testing of CentOS Stream updates before they are published to CentOS mirrors. This includes both - package-level and compose-level integration.

### GOALS

- Document existing integration workflows used by other SIGs.
- Identify common issues.



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## CentOS Integration SIG

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# Compose Tests



Thanks to the work done by [Carlos Rodriguez-Fernandez](#) the compose tests have been ported from the [t\\_functional](#) test wrapper to the [tmt \(Test Management Tool\)](#).

You can find new tests repository in the Integration SIG namespace on Gitlab.com:

- <https://gitlab.com/CentOS/Integration/compose-tests>

### Where to see the tests in action

For CentOS Stream 9 these tests run in the experimental Jenkins job:

- [https://testing.stream.centos.org/job/CentOS\\_9-stream\\_x86\\_64\\_kvm\\_Experimental%20-%20TMT%20test%20suite/](https://testing.stream.centos.org/job/CentOS_9-stream_x86_64_kvm_Experimental%20-%20TMT%20test%20suite/)

For CentOS Stream 10 we run the tests in the main Jenkins pipeline:

- [https://testing.stream.centos.org/job/CentOS\\_10-stream\\_all/](https://testing.stream.centos.org/job/CentOS_10-stream_all/)

### How to run the compose tests locally

1. Install the tmt tool and tmt plugin with libvirt support:

```
# dnf install tmt tmt+provision-virtual
```

