



# Connect, Develop and Maintain With Community Platform Engineering

State of Community Infrastructure Projects



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# ABOUT US

Community Platform Engineering is a Red Hat sponsored team dedicated to developing and maintaining community infrastructure for Fedora Project and CentOS Project and work on release engineering.



# THINGS WE DO



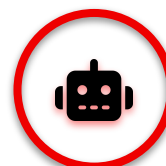
## OPERATIONS

Involves system administration, infrastructure handling and service deployment, and releases engineering



## DEVELOPMENT

Consists of building of projects (called initiatives) for the community infrastructure in a limited scope



## MAINTENANCE

Includes looking after the deployed set of applications and services that fall under the team's remit

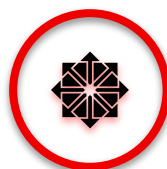


# OUR TEAMS



## Fedora Infra

Maintaining everything on the community infrastructure - from package build systems to source code forges



## CentOS Infra

Upholding everything on the community infrastructure - from continuous integration systems to storages



## Release Engg

Ensuring that the releases of the distribution come out with features, packages and on a planned schedule



## Initiatives

Self-contained but highly impactful work requests handled by multiple team members over many weeks or months





# PROGRESS

- Here is a treatise of the progress made by the Community Platform Engineering Team during the last four years since the **last in-person Flock To Fedora event in 2019** to **this in-person Flock To Fedora event in 2023**.
- The statistics have been taken from two weeks before last event's commencement to two weeks before this event's commencement i.e. from **25 July 2019** to **18 July 2023**.

## FROM LAST FLOCK TO THIS FLOCK

Flock 2019

Name

Flock 2023

Name

08 - 11 August

When

02 - 05 August

When

Budapest, HU

Where

Cork, IE

Where

3 years, 11 months, 25 days

Duration in between the events





# Fedora Infra

- **Fixed with explanation:** 168 ticket(s)
- **Upstream:** 166 ticket(s)
- **Fixed:** 2528 ticket(s)
- **Insufficient data:** 53 ticket(s)
- **Duplicate:** 108 ticket(s)
- **Invalid:** 153 ticket(s)
- **Will not or cannot fix:** 143 ticket(s)
- **Initiative worthy:** 16 ticket(s)

## TOTAL TICKETS RESOLVED

**3336**

## TIME TO CLOSE

2197.0	0.0	42.8	1.0
Maximum	Minimum	Average	Median

## GAIN

1880	542	753	161
Undefined	Low	Medium	High

## TROUBLE

1887	650	682	117
Undefined	Low	Medium	High





# CentOS Infra

- **Fixed with explanation:** 82 ticket(s)
- **Fixed:** 953 ticket(s)
- **Insufficient data:** 26 ticket(s)
- **Duplicate:** 27 ticket(s)
- **Invalid:** 28 ticket(s)
- **Wrong tracker:** 42 ticket(s)
- **Initiative worthy:** 4 ticket(s)

## TOTAL TICKETS RESOLVED

1182

## TIME TO CLOSE

770.0	0.0	21.44	1.0
Maximum	Minimum	Average	Median

## GAIN

243	335	301	303
Undefined	Low	Medium	High

## TROUBLE

251	661	229	41
Undefined	Low	Medium	High





# Release Engg

- **Fixed with explanation:** 31 ticket(s)
- **Upstream:** 15 ticket(s)
- **Fixed:** 2261 ticket(s)
- **Insufficient data:** 9 ticket(s)
- **Duplicate:** 41 ticket(s)
- **Invalid:** 58 ticket(s)
- **Will not or cannot fix:** 47 ticket(s)
- **Get back later:** 88 ticket(s)
- **It's all good:** 146 ticket(s)

## TOTAL TICKETS RESOLVED

2697

## TIME TO CLOSE

2216.0	0.0	46.99	1.0
Maximum	Minimum	Average	Median

## GAIN

1768	273	601	55
Undefined	Low	Medium	High

## TROUBLE

1768	675	233	21
Undefined	Low	Medium	High

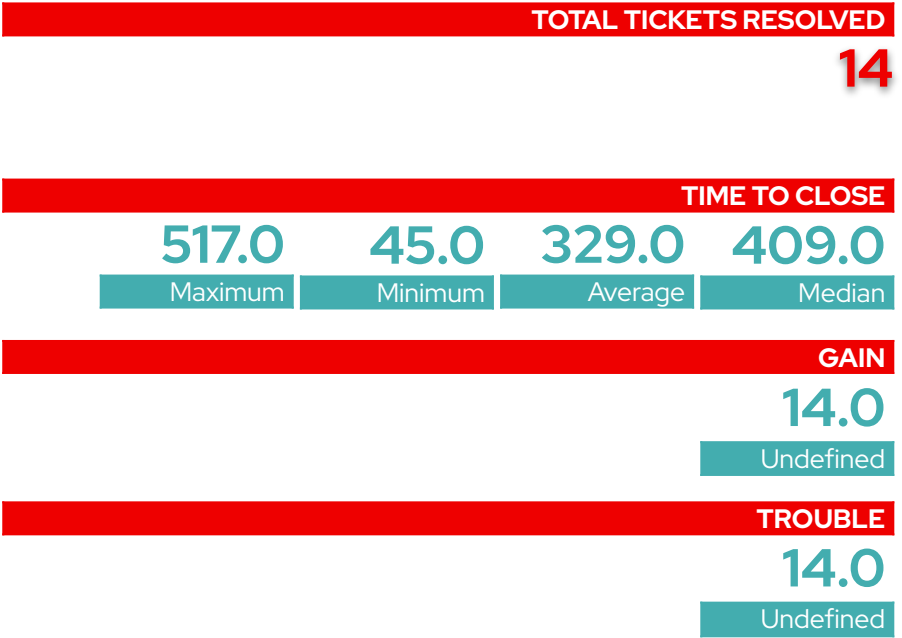






# Initiatives

- **Investigations:**  
<https://fedora-arc.readthedocs.io/en/latest/>
  - **Progressing:**  
[initiatives.html#drafts](#)
  - **Completed:**  
[initiatives.html#completed-review](#)
  - **Implemented:**  
[initiatives.html#implemented](#)



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# PROJECTS

Community Platform Engineering team has a set of applications catering to the community of users and contributors of Fedora Project and CentOS Project, that it develops and maintains, on a case by case basis.

## USAGE STATISTICS

**74**

Total number of projects

**52**

Used only by Fedora Project

**9**

Used only by CentOS Project

**13**

Used by both the communities



# TYPES OF PROJECTS



## CRITICAL I

### Critical First Class

Applications and services that we develop code for and maintain in our infrastructure



## CRITICAL II

### Critical Second Class

Applications and services that we maintain in our infrastructure but do not develop code for



## STANDARD

### Standard Class

Applications and services that we develop code for and maintain in our infrastructure



## ECOSYSTEM

### Ecosystem Class

Applications and services that we maintain in our infrastructure and assist developing code for





# CRITICAL I

- Also known as **Critical First Class** applications and services
- These projects rank among the top in terms of importance to the community
- The codebase of these projects are developed by the team
- The deployment of these projects are maintained in the community infrastructure

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## USAGE STATISTICS

20

Total number of projects

12

Used only by Fedora Project

3

Used only by CentOS Project

5

Used by both the communities





# CRITICAL I

- Projects like Toddlers, Bodhi, MDAPI, RPMAutoSpec, Monitor Gating, Mirror From Pagure, PDC/FPDC, Fedora Notifications, Sigul, CI ResultsDB Listener, FASJSON and FASJSON Client are used only by **Fedora Project**
- Projects like Stylo, Mirrorlist Backend and Mirrorlist Frontend are used only by **CentOS Project**
- Projects like Pagure, Noggin, Pagure Dist Git, Fedora Messaging and Robosignatory are used by **both the communities**

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## TECHNOLOGIES CONSIDERED

15

Have unit tests implemented

16

Support or ported to Python 3

11

Have testing in Pytest

8

Support Fedora Messaging

2

Have OIDC support

5

Have messaging schemas

9

Have maintained documentation





# CRITICAL II

- Also known as **Critical Second Class** applications and services
- These projects rank among the top in terms of importance to the community
- The codebase of these projects might not be developed by the team
- The deployment of these projects are maintained in the community infrastructure



## USAGE STATISTICS

21

Total number of projects

10

Used only by Fedora Project

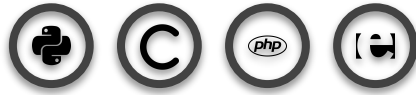
4

Used only by CentOS Project

7

Used by both the communities





# CRITICAL II

- Projects like ResultsDB, Nagios, Koschei, Wiki/MediaWiki, WaiverDB, Greenwave, Mailman3/HK, OSBS, RabbitMQ and Dist Git are used only by **Fedora Project**
- Projects like Zabbix, Wiki/Moin, Mailman 2 and CentOS Status are used only by **CentOS Project**
- Projects like ODCS, Pungi, Koji, MBS, IPA, Ipsilon and Mirror Manager are used by **both the communities**

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## TECHNOLOGIES CONSIDERED

11

Have unit tests implemented

11

Support or ported to Python 3

4

Have testing in Pytest

9

Support Fedora Messaging

5

Have OIDC support

0

Have messaging schemas

6

Have maintained documentation



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# STANDARD

- Also known as **Standard Class** applications and services
- These projects rank comparatively lower in terms of importance to the community
- The codebase of these projects are developed by the team
- The deployment of these projects are maintained in the community infrastructure



## USAGE STATISTICS

17

Total number of projects

14

Used only by Fedora Project

2

Used only by CentOS Project

1

Used by both the communities







# STANDARD

- Projects like Toddlers, Bodhi, MDAPI, RPMAutoSpec, Monitor Gating, Mirror From Pagure, PDC/FPDC, Fedora Notifications, Sigul, CI ResultsDB Listener, FASJSON and FASJSON Client are used only by **Fedora Project**
- Projects like Stylo, Mirrorlist Backend and Mirrorlist Frontend are used only by **CentOS Project**
- Projects like Pagure, Noggin, Pagure Dist Git, Fedora Messaging and Robosignatory are used by **both the communities**

## TECHNOLOGIES CONSIDERED

13

Have unit tests implemented

14

Support or ported to Python 3

5

Have testing in Pytest

9

Support Fedora Messaging

1

Have OIDC support

3

Have messaging schemas

5

Have maintained documentation





# ECOSYSTEM

- Also known as **Ecosystem Class** applications and services
- These projects rank comparatively lower in terms of importance to the community
- The codebase development of these projects might be assisted by the team
- The deployment of these projects are maintained in the community infrastructure



## USAGE STATISTICS

16

Total number of projects

16

Used only by Fedora Project

0

Used only by CentOS Project

0

Used by both the communities





# ECOSYSTEM

- Projects like COPR, Flask OIDC, Fedocal, Nuancier, Elections, Simple Koji CI, Fedora Gather Easyfix, Fedora Websites, CCCO Utils, Meetbot Logs, Testdays, Zezere, Oraculum, DebugInfod, Kernel Test, Geo IP are used only by **Fedora Project**

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## TECHNOLOGIES CONSIDERED

7

Have unit tests implemented

10

Support or ported to Python 3

2

Have testing in Pytest

6

Support Fedora Messaging

6

Have OIDC support

1

Have messaging schemas

6

Have maintained documentation





# THANK YOU!

**Connect with us at**

[community-platform-eng@redhat.com](mailto:community-platform-eng@redhat.com)

**Hangout with us at**

<https://chat.fedoraproject.org/#/room/#apps:fedoraproject.org>

**Find about us at**

<https://docs.fedoraproject.org/en-US/cpe/>

