



CentOS CI Infra

The Common Ground

David Kirwan & Vipul Siddharth
CI Infrastructure Team
Community Platform Engineering

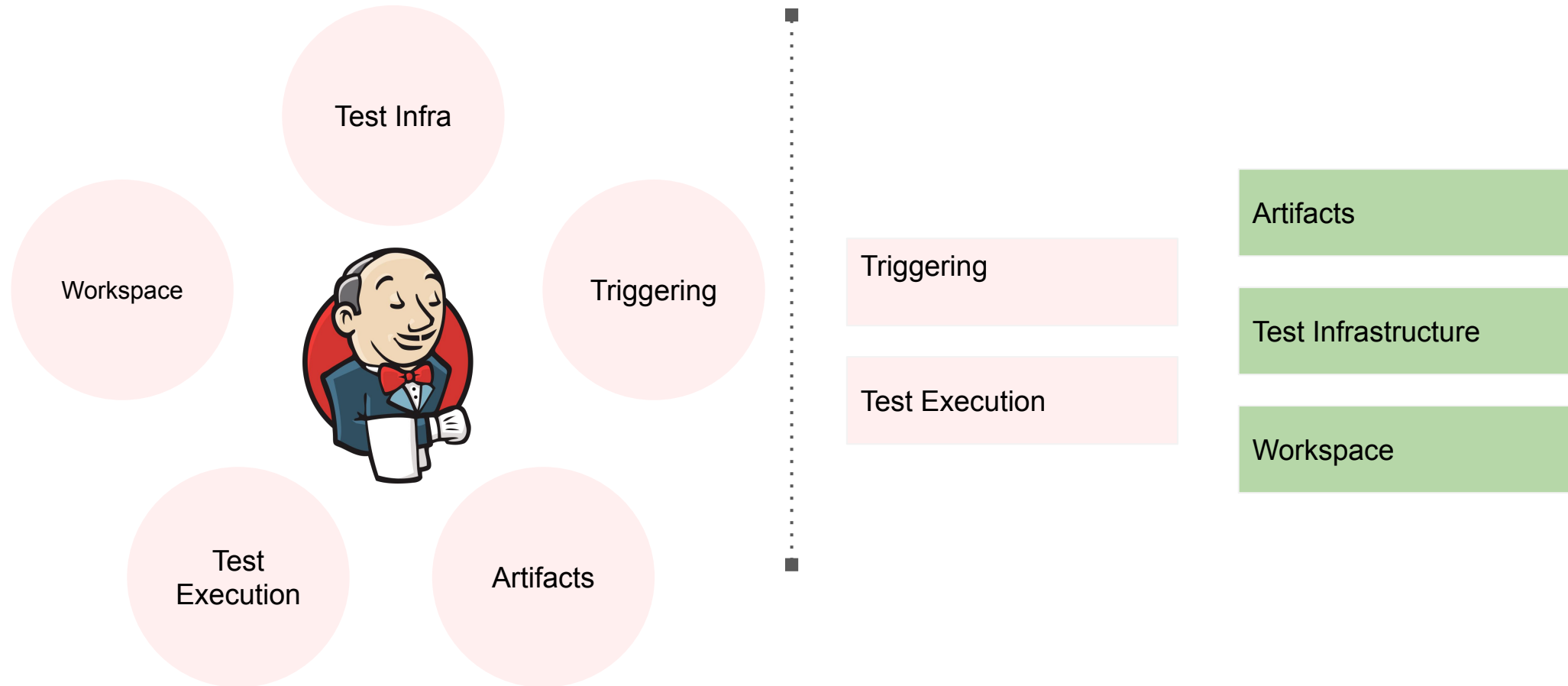
Agenda

- CentOS CI - Overview
- What we provide
 - Baremetal, Containers and VMs
- Demo
- Q&A

CentOS CI

The CentOS Project provides CI infrastructure resources which are available to Fedora and CentOS related open source projects to come and consume. The aim is that projects make use of these resources to setup CI/testing for themselves as well as to integrate against each other as the code base evolves.

Introduction



What has changed

- Stopping support of our central Jenkins Instance
- Eventually stopping our Openshift 3.6
- Efforts on maintaining/updating the bare metal/VM images and container images
- You own your namespace and Jenkins

OpenShift

- 4.x Openshift Cluster
- 3 control and 9 compute nodes
- 128 Gib RAM, Dual Xeon E5-2640 2.60GHz, 2x240gb SSDs
- You get a Namespace with full admin access & we can provide RWX/RWO persistent storage (NFS)
- Optional Jenkins instance with persistent storage
- Jenkins Shared Library for Python tox tests
<https://github.com/centosci/cico-shared-library>

Bare-metal - Duffy

- Rest API
- Ansible playbooks, IPMI, PXE
- API client python-cicoclient
- Reserve a bare-metal for 6 hours
- We maintain multiple versions of CentOS
several different architectures
eg: CentOS 6, 7, 8, 8-stream.

```
$ cico node get -f json
[
  {
    "comment": "4c579642",
    "centos_version": "7",
    "console_port": 2360,
    "node_pool": 1,
    "hostname": "n37.crusty",
    "current_state": "Deployed",
    "architecture": "x86_64",
    "chassis": "crusty",
    "used_count": 4848,
    "rel": null,
    "host_id": 164,
    "flavor": null,
    "ip_address": "172.19.2.37",
    "distro": null
  }
]
```

Bare-metal - Some Numbers

Architecture	Counts in pool
x86-64	83
i386	7
ppc64 / ppc64le	45
aarch64	20

1,213,205 (1,301,770)

Year	Nodes provisioned
2020	132308 (220873)
2019	309522
2018	373912
2017	247086
2016	133631
2015	16746

VMs - OpenNebula

- VMs for CI agents and Fedora runs
- Working to integrate the OpenNebula API with the Duffy API, so tenants can create/manage VMs in a self service fashion

```
$ cico node get --type vm --distro fedora --version latest

{
  "Distro": "Fedora",
  "version": rawhide,
  "hostname": "aa.bb",
  "architecture": "x86_64",
  "ip_address": "172.19.2.37"
}
```

Demo

Resources

- https://docs.fedoraproject.org/en-US/cpe/day_to_day_centos/
- pagure.io/centos-infra [Use template ci-migration for migration or onboarding request]
- <https://wiki.centos.org/QaWiki/CI/Duffy>
- <https://github.com/CentOS/duffy>
- <https://lists.centos.org/mailman/listinfo/ci-users>
- [centos-ci@Freenode](#)

Thank you

Any questions?

CentOS CI Infra at a glance

