

oVirt

oVirt and its community

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Manager, software engineering, EMEA R&D RHV

October 2019



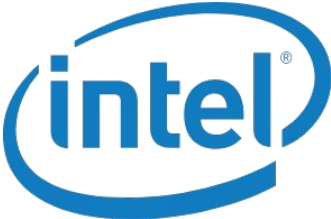
The project

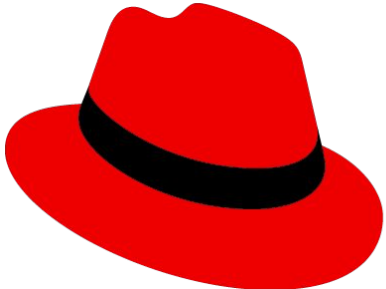


oVirt Board 2018



CANONICAL





Red Hat



CANONICAL



oVirt board updates

Welcome the new board members!

- Doron Fediuck - Red Hat, Strategic member
- Martin Tessun - Red Hat, Mentor

Thanks for the past contribution to the leaving members

- Perry Myers - Red Hat
- Jon Benedict (former NetApp strategic member, now in Red Hat)
- Livnat Peer - Red Hat
- Carl Trieloff - Red Hat
- Christopher Wright - Red Hat
- Ayal Baron (former Red Hat)
- Alexander Graf - (former SuSE)
- Jun Nakajima - Intel

Other projects interaction



Images are under CC-BY-SA from Open Source Program Office @Red Hat

Positioning compared to other projects

Cloud-Native
App Platform



Hybrid cloud Infrastructure



Cloud Management and
automation



Images are under CC-BY-SA from Open Source Program Office @Red Hat

Positioning within infrastructure



Bare Metal



Virtualization



Private cloud



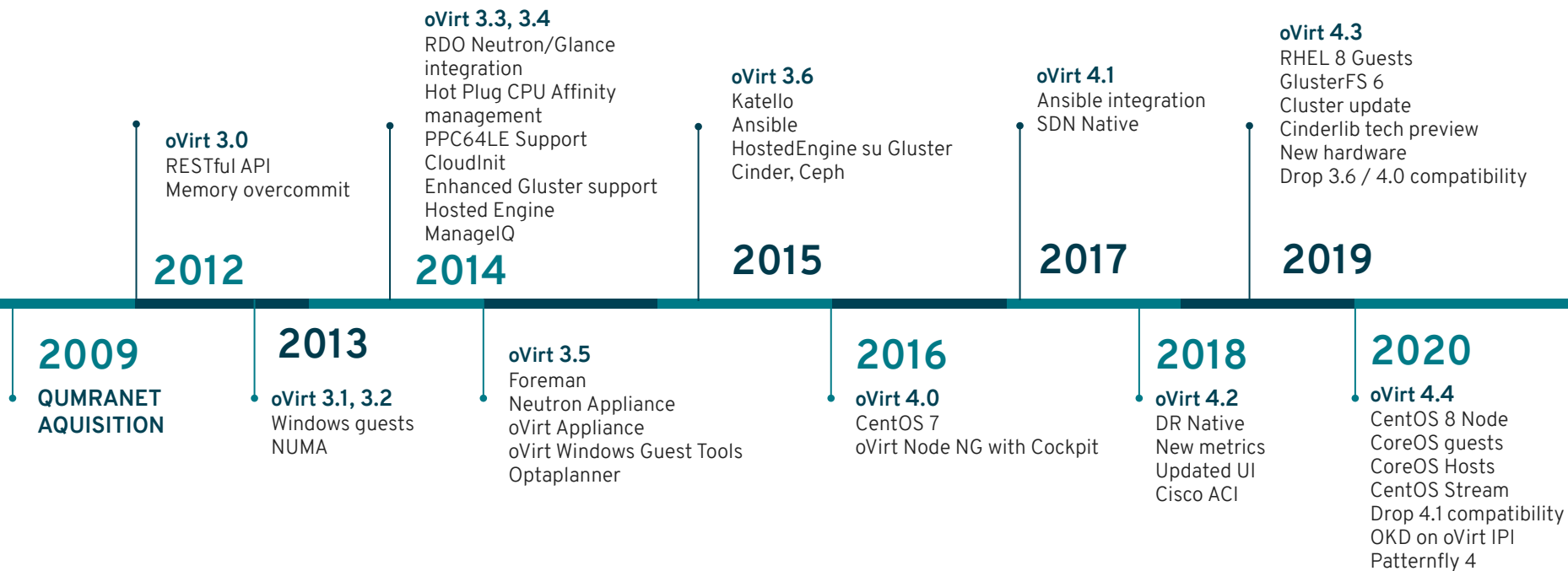
Public cloud



Storage

Images are under CC-BY-SA from Open Source Program Office team @Red Hat

Project maturity



oVirt 4.3.6

Highlights from the latest release:

- CentOS Linux 7.7
- Security fixes
- Ansible 2.8.5
- Wildfly 17.0.1
- GlusterFS 6.5

New features:

- NFS storage can now be created specifying exact version of NFS
- Preparing to support 4k block size (should be completed in 4.3.7)
- Added priorities to non-enforcing affinity groups.

Next: oVirt and CentOS

Fedora

CentOS Stream

RHEL

CentOS Linux

- Best effort
- Tech preview
- No commitment
- oVirt development

- oVirt development
- Features integration
- Non production / test environments
- Changing Nightly

- You should consider RHV instead
- Production environment

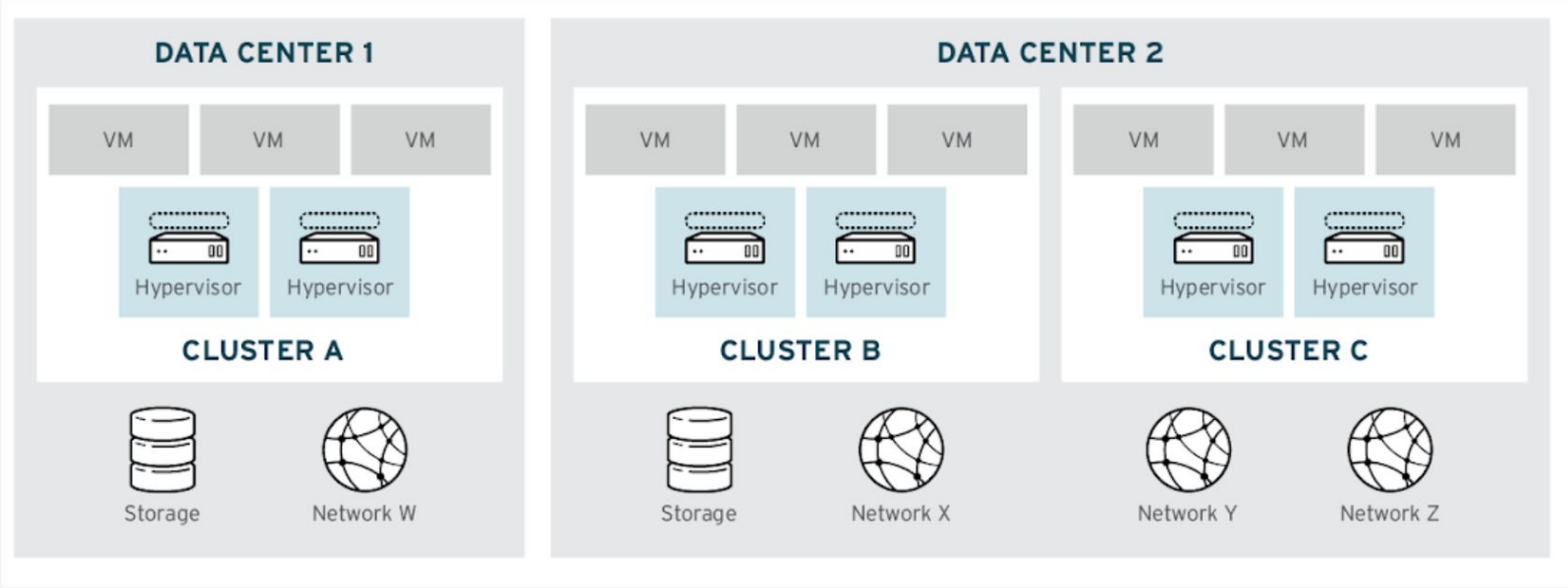
- Production environment
- oVirt release may require to wait till new CentOS Linux is rebuilt from RHEL or use CentOS Stream in the meantime

Above represents only oVirt expectations and not those from individual operating systems communities
This is accurate now, may change in the future

The software

What's oVirt

oVirt engine



oVirt Engine

oVirt OPEN VIRTUALIZATION MANAGER

Dashboard 🔄 Last Updated 9/20/2019, 11:51:22 AM GMT+2

| | | | | | |
|-----------------------|---------------------|-------------------|---------------------------------|--------------------------------------|-----------------|
| 9 Data Centers 📍 9 | 9 Clusters 🏠 N/A | 11 Hosts 🖥️ 11 | 15 Data Storage Domains 📁 15 | 164 Virtual Machines 🖥️ 9 📁 155 | 1 Events 🚨 1 |
|-----------------------|---------------------|-------------------|---------------------------------|--------------------------------------|-----------------|

Global Utilization

| CPU | Memory | Storage |
|---|---|--|
| 87% Available of 100% Virtual resources - Committed: 242%, Allocated: 261% | 1009.3 Available of 2,134.7 GiB Virtual resources - Committed: 84%, Allocated: 88% | 13.3 Available of 25.3 TiB Virtual resources - Committed: 45%, Allocated: 53% |

13% Used

1.1 TiB Used

12.0 TiB Used

Cluster Utilization

| CPU | Memory |
|-----|--------|
| | |

Storage Utilization

| Storage |
|---------|
| |

Legend: > 90% (Red), 75-90% (Orange), 65-75% (Yellow), < 65% (Light Blue)

oVirt Engine

Top Utilized Resources (CPU)



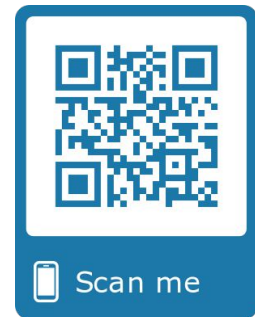
Top Utilized Resources (Storage)



Donate hardware

The oVirt infrastructure can greatly benefit from donated capacity in form of virtual machines and physical servers.

<https://bit.ly/33k0181>









oVirt Engine

oVirt OPEN VIRTUALIZATION MANAGER



Virtual Machines

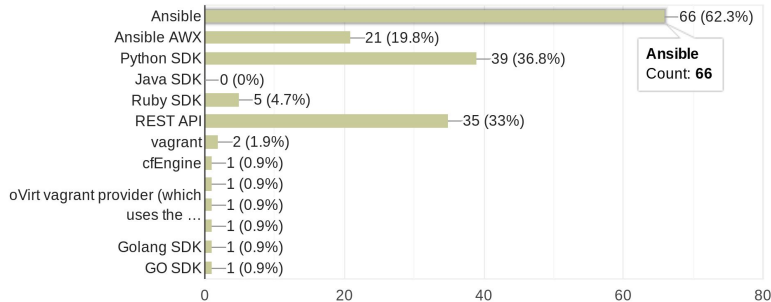
| | | | |
|--|---|---|---|
| <p>RED HAT ENTERPRISE LINUX 7.X X64</p>  <p>artifactory-2-phx-ovirt-org</p> <p>Running</p> <p>Suspend</p> | <p>RED HAT ENTERPRISE LINUX 7.X X64</p>  <p>backup-phx-ovirt-org</p> <p>Running</p> <p>Suspend</p> | <p>RED HAT ENTERPRISE LINUX 7.X X64</p>  <p>carla.osci.io</p> <p>Running</p> <p>Suspend</p> | <p>RED HAT ENTERPRISE LINUX 7.X</p> <p>RED HAT ENTERPRISE LINUX</p> <p>e17-ppc-worker</p> <p>Off</p> <p>Run</p> |
| <p>RED HAT ENTERPRISE LINUX 6.X X64</p> <p>RED HAT ENTERPRISE LINUX</p> <p>foreman-ovirt-org</p> <p>Running</p> <p>Suspend</p> | <p>RED HAT ENTERPRISE LINUX 7.X X64</p>  <p>foreman-phx</p> <p>Running</p> <p>Suspend</p> | <p>RED HAT ENTERPRISE LINUX 7.X X64</p>  <p>gerrit-staging-phx-ovirt-org</p> <p>Running</p> <p>Suspend</p> | <p>RED HAT ENTERPRISE LINUX 7.X X64</p> <p>RED HAT ENTERPRISE LINUX</p> <p>glance01-phx-ovirt-org</p> <p>Running</p> <p>Suspend</p> |
| <p>RED HAT ENTERPRISE LINUX 7.X X64</p> <p>RED HAT ENTERPRISE LINUX</p> | <p>RED HAT ENTERPRISE LINUX 7.X X64</p> <p>RED HAT ENTERPRISE LINUX</p> | <p>LINUX</p>  | <p>RED HAT ENTERPRISE LINUX 7.X X64</p> <p>RED HAT ENTERPRISE LINUX</p> |

Automation

- [oVirt REST API](#)
- [oVirt Engine API Python SDK](#)
- [oVirt Engine API Java SDK](#)
- [oVirt Engine API Ruby SDK](#)
- [oVirt Engine API Go SDK](#) (new in 4.3)
- [oVirt Ansible Roles](#)
- [oVirt Ansible Modules](#)

What are you using to automate your oVirt tasks?

106 responses



Example Playbook

```
---
- name: oVirt infra
  hosts: localhost
  connection: local
  gather_facts: false

  vars:
    engine_url: https://ovirt-engine.example.com/ovirt-engine/api
    engine_user: admin@internal
    engine_password: 123456
    engine_cafile: /etc/pki/ovirt-engine/ca.pem

  cluster_name: production
  stopped_vms:
    - openshift-master-0
    - openshift-node-0
    - openshift-node-image

  roles:
    - oVirt.cluster-upgrade
```

oVirt stories

Products based on oVirt



Who's using oVirt? User stories

oVirt

Alter Way



Nieuwland



Who's using oVirt in the world?

Disclaimer: the following is based on data analysis of oVirt user mailing list and have not been officially confirmed



Who's using oVirt in Italy?

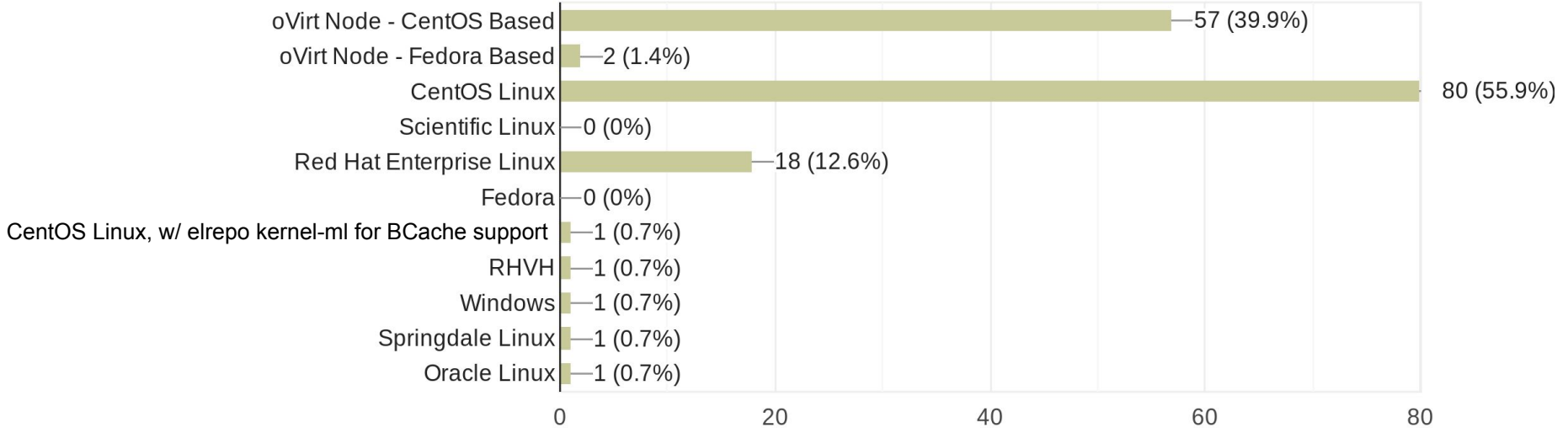
Disclaimer: the following is based on data analysis of oVirt user mailing list and have not been officially confirmed



How do you use oVirt

Which distribution are you using for the hypervisors?

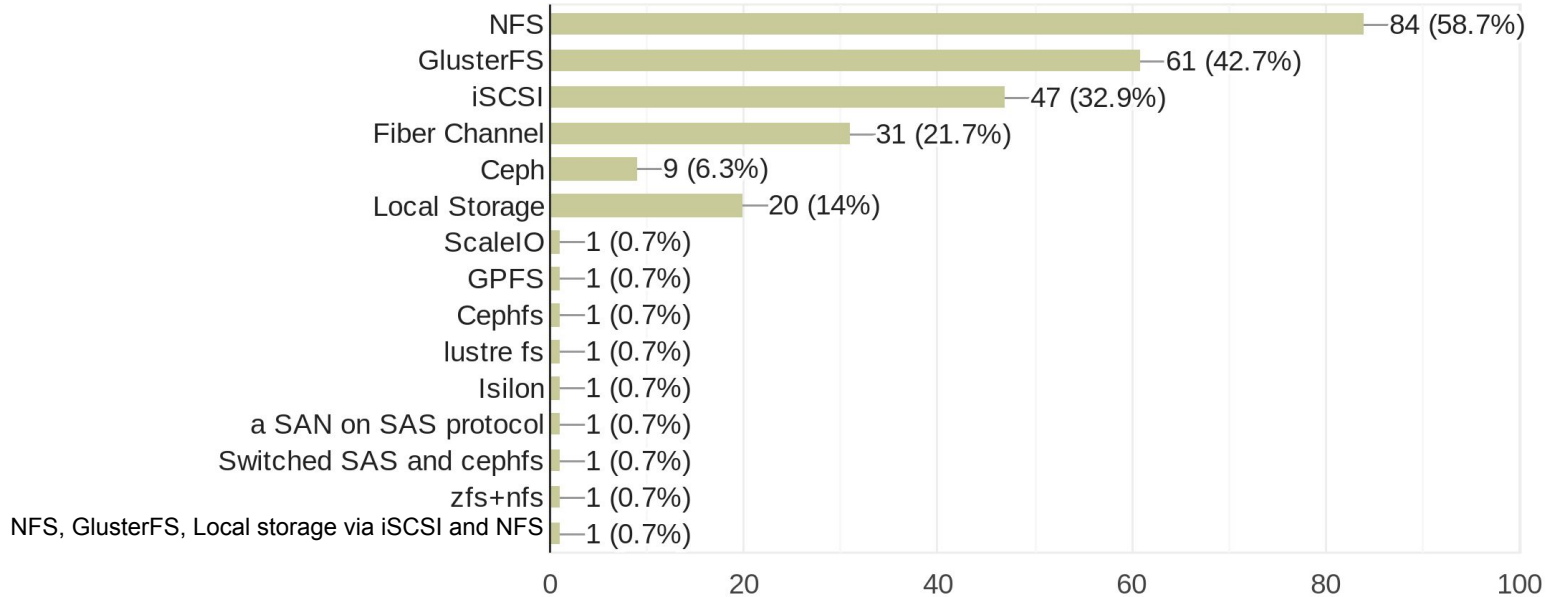
143 responses



How do you use oVirt

Which storage solutions are you using for your datacenters?

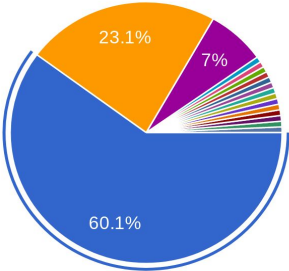
143 responses



How do you use oVirt

On which distribution are you running the oVirt Engine?

143 responses

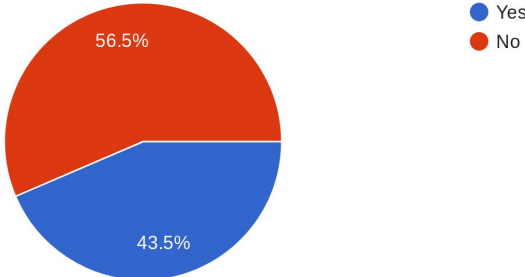


- Self Hosted oVirt Engine Appliance...
- Self Hosted oVirt Engine Appliance...
- Bare metal - CentOS Linux
- Bare metal - Scientific Linux
- Bare metal - Red Hat Enterprise Li...
- KVM VM on libvirt managed by pac...
- VM hosted on KVM - CentOS Based
- VM CentOS on external KVM

▲ 1/3 ▼

If using a Self Hosted Engine, are you running it as a Hyperconverged deployment?

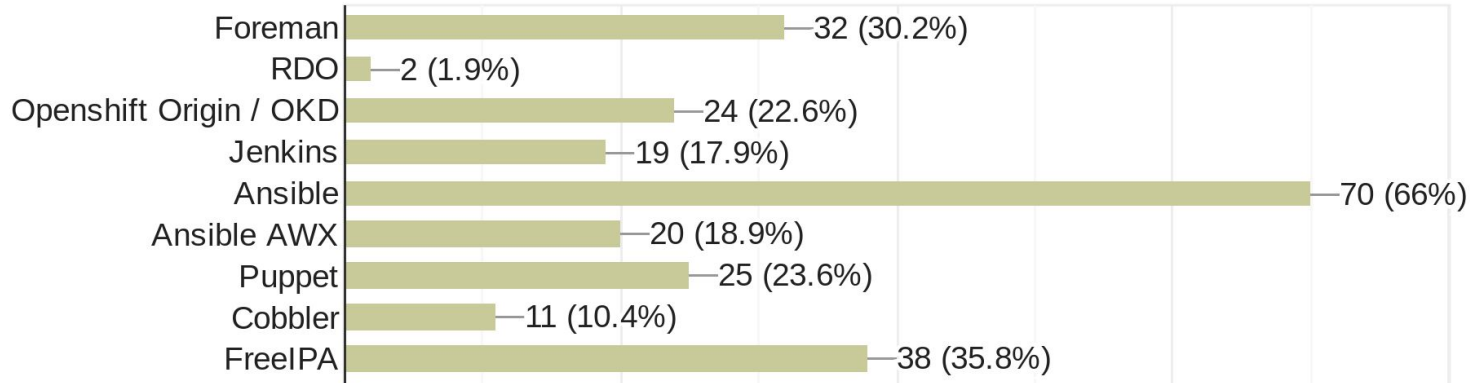
124 responses



How do you use oVirt

What are you also using along with oVirt? (leave blank if nothing additional is used)

106 responses



oVirt community

A Global Community



- oVirt
- Gruppo pubblico
- Informazioni
- Discussione**
- Membri
- Eventi
- Video
- Foto
- File
- Dati statistici sul gruppo



oVirt Myanmar Community

Ovirt Myanmar Community

Home

oVirt/RHEV Korea Group

Gruppo pubblico

Informazioni

Discussione

oVirt/RHEV User Group (Malaysia)

Gruppo pubblico

Informazioni

Discussione

oVirt Community [India]

Gruppo pubblico

Informazioni

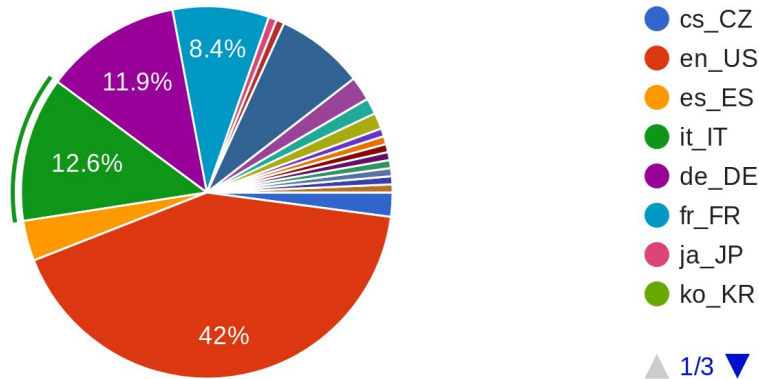
New!

Global: 1389(+7%) - Myanmar: 275(+16%) - Italy: 257(+29%) - Korea: 217(+5%) - Malaysia: 109(+5%) - India: 45

A few stats

What's your primary language?

143 responses



ovirt-engine contributions:

Master: 31295 commits at August 9th 2019

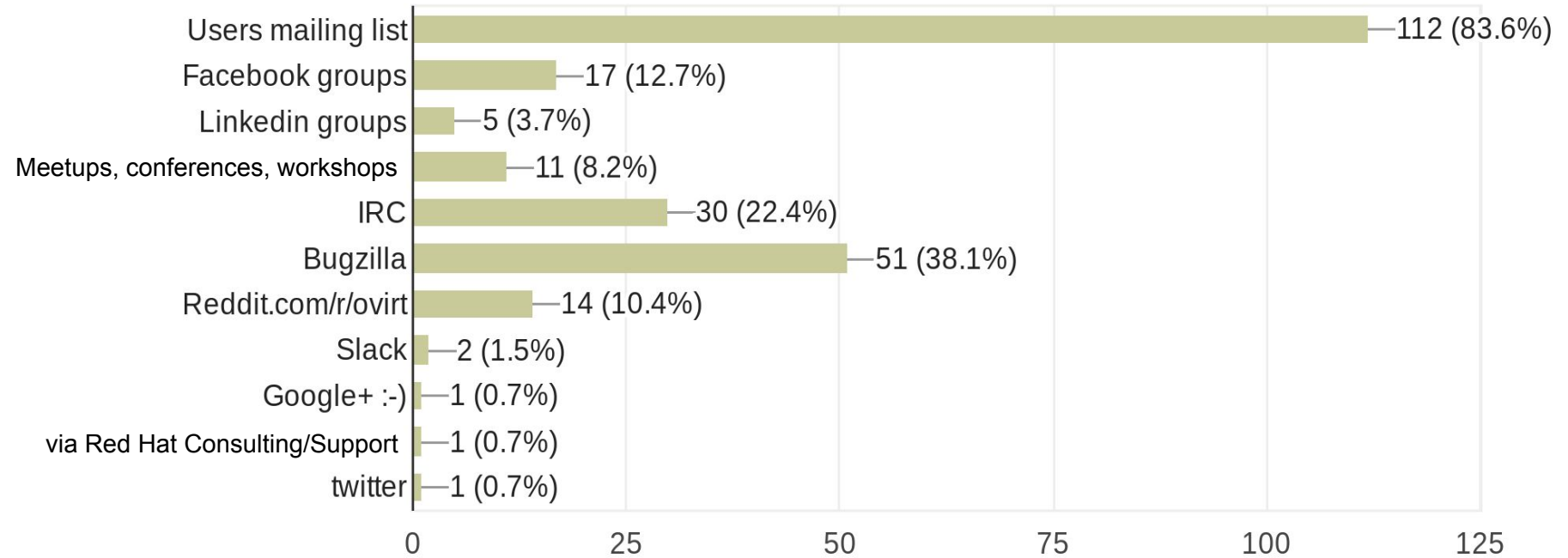
- @redhat.com: 30878 (98.6 %)
- @gmail.com 175 (0.55%)
- @linux.vnet.ibm.com 119 (0.38%)
- @eldorado.org.br 72 (0.23%)
- @hp.com 14 (0.04%)
- @intel.com 11 (0.03%)
- Others (< 10 commits): 40 (0.13%)

vdsm contributions:

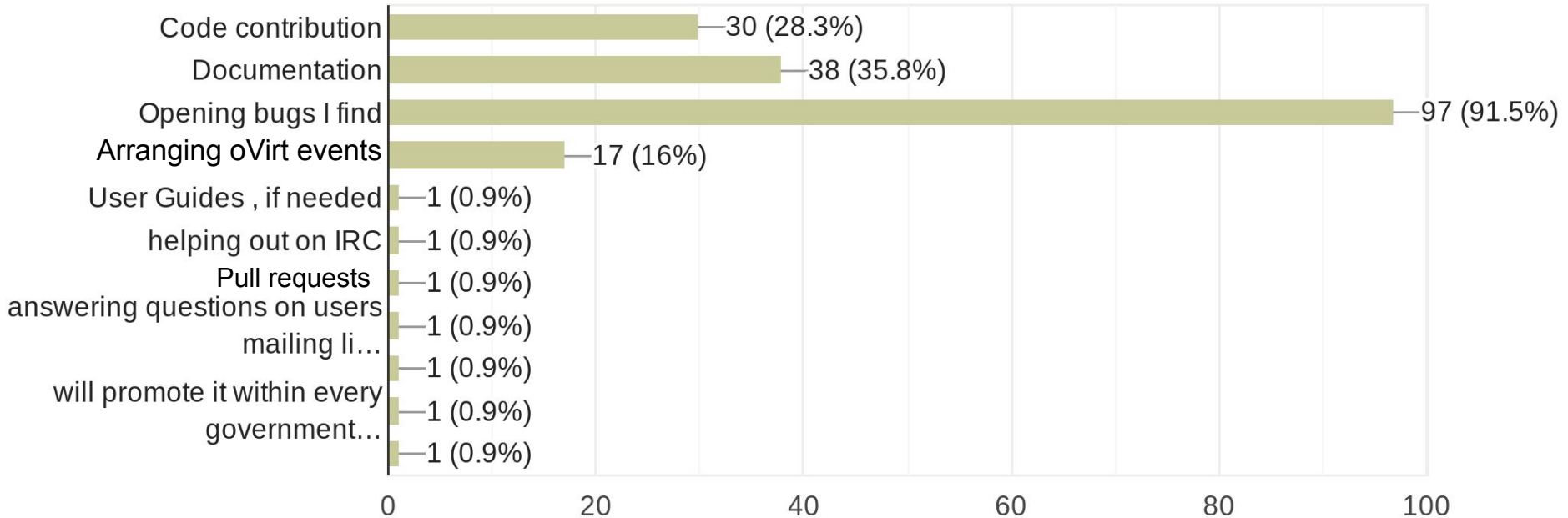
Master: 11855 commits at August 9th 2019

- @redhat.com: 10932 (92.21%)
- @gmail.com 401 (3.38%)
- @linux.vnet.ibm.com 355 (2.99%)
- @us.ibm.com 103 (0.86%)
- @hp.com 11 (0.09%)
- @@kohlvanwijngaarden.nl 11 (0.09%)
- Others (< 10 commits): 42 (0.35%)

How do you communicate?

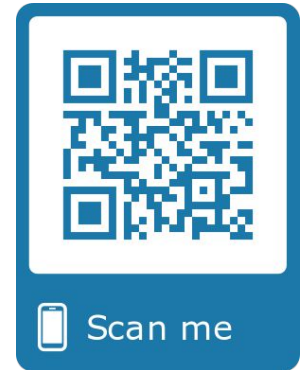


How are you willing to contribute?



Other ways to contribute

- Join community discussions
- File bugs
- Help localizing
- Promote oVirt (tweet, blog, coffee, workshop, meetup)
- Join surveys
- Share how you're using oVirt (in a case study)
- Derivative works (ovirtclient.com, backup/restore...)
- Donate hardware ----->



<https://bit.ly/33k0181>

oVirt

Thank you!

<https://ovirt.org/>

users@ovirt.org

 @ovirt