oVirt and its community

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Manager, software engineering, EMEA R&D RHV

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The project
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

Hybrid cloud Infrastructure

Cloud-Native App Platform

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

2009
QUMRANET ACQUISITION

2013
ovirt 3.1, 3.2
Windows guests NUMA

2014
ovirt 3.3, 3.4
RDO Neutron/Glance integration
Hot Plug CPU Affinity management
PPC64LE Support
CloudInit
Enhanced Gluster support
Hosted Engine Management

2015
ovirt 3.6
Katello Ansible
Hosted Engine su Gluster
Cinder, Ceph

2017
ovirt 4.1
Ansible integration
SDN Native

2018
ovirt 4.2
DR Native
New metrics
Updated UI
Cisco ACI

2020
ovirt 4.4
CentOS 8 Node
CoreOS guests
CoreOS Hosts
CentOS Stream
Drop 4.1 compatibility
OKD on oVirt IPI
Patternfly 4

2012
ovirt 3.0
RESTful API
Memory overcommit

2014
ovirt 3.3, 3.4
ovirt 3.5
Foreman
Neutron Appliance
ovirt Appliance
ovirt Windows Guest Tools
Optaplaner

2015
ovirt 3.6
Katello Ansible
Hosted Engine su Gluster
Cinder, Ceph

2017
ovirt 4.1
Ansible integration
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Patternfly 4
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
- Best effort
- Tech preview
- No commitment
- oVirt development

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

RHEL
- You should consider RHV instead
- Production environment

CentOS Linux
- 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.

You should consider RHV instead
The software
What’s oVirt
oVirt Engine
The oVirt infrastructure can greatly benefit from donated capacity in form of virtual machines and physical servers.

https://bit.ly/33k0181
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

Example Playbook

```yaml
---
- name: oVirt infr
  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_cacert: /etc/pki/ovirt-engine/ca.pem

  cluster_name: production
  stopped_vms:
    - openshift-master-0
    - openshift-node-0
    - openshift-node-1image

  roles:
    - oVirt.cluster-upgrade
```
oVirt stories
Products based on oVirt
Who’s using oVirt? User stories
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.

Barcelona Supercomputing Center
Centro Nacional de Supercomputación

BERKELEY LAB
Bringing Science Solutions to the World

UBIMET
WEATHER MATTERS

MEDICAL UNIVERSITY OF VIENNA

EPS
A REVOLUTION IN FLIGHT

TELVUE

Fraunhofer HHI

SILESIAN UNIVERSITY IN OPAVA

SANReN
South African National Research Network

Adagene

BSC

ALASKA
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 CentOS Linux, w/ elrepo kernel-ml for BCache support
How do you use oVirt

Which storage solutions are you using for your datacenters?

143 responses

- NFS: 84 (58.7%)
- GlusterFS: 61 (42.7%)
- iSCSI: 47 (32.9%)
- Fiber Channel: 31 (21.7%)
- Ceph: 9 (6.3%)
- Local Storage: 20 (14%)
- ScaleIO: 1 (0.7%)
- GPFS: 1 (0.7%)
- Cephfs: 1 (0.7%)
- lustre fs: 1 (0.7%)
- Isilon: 1 (0.7%)
- a SAN on SAS protocol: 1 (0.7%)
- Switched SAS and cephfs: 1 (0.7%)
- zfs+nfs: 1 (0.7%)
- NFS, GlusterFS, Local storage via iSCSI and NFS: 1 (0.7%)
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

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

- Yes
- No
### How do you use oVirt

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

106 responses

<table>
<thead>
<tr>
<th>Tool</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreman</td>
<td>32</td>
<td>30.2%</td>
</tr>
<tr>
<td>RDO</td>
<td>2</td>
<td>1.9%</td>
</tr>
<tr>
<td>OpenShift Origin / OKD</td>
<td>19</td>
<td>17.9%</td>
</tr>
<tr>
<td>Ansible</td>
<td>20</td>
<td>18.9%</td>
</tr>
<tr>
<td>Ansible AWX</td>
<td>25</td>
<td>23.6%</td>
</tr>
<tr>
<td>Puppet</td>
<td>11</td>
<td>10.4%</td>
</tr>
<tr>
<td>Cobbler</td>
<td>38</td>
<td>35.8%</td>
</tr>
</tbody>
</table>
oVirt community
Global: 1389(+7%) - Myanmar: 275(+16%) - Italy: 257(+29%) - Korea: 217(+5%) - Malaysia: 109(+5%) - India: 45
A few stats

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%)

dsm 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?

- Users mailing list: 112 (83.6%)
- Facebook groups: 17 (12.7%)
- LinkedIn groups: 5 (3.7%)
- Meetups, conferences, workshops: 11 (8.2%)
- IRC: 30 (22.4%)
- Bugzilla: 51 (38.1%)
- Reddit.com/r/ovirt: 14 (10.4%)
- Slack: 2 (1.5%)
- Google+ :-): 1 (0.7%)
- Via Red Hat Consulting/Support: 1 (0.7%)
- Twitter: 1 (0.7%)
How are you willing to contribute?

- Code contribution: 30 (28.3%)
- Documentation: 38 (35.8%)
- Opening bugs I find: 97 (91.5%)
- Arranging oVirt events: 17 (16%)
- User Guides, if needed: 1 (0.9%)
- Helping out on IRC: 1 (0.9%)
- Pull requests: 1 (0.9%)
- Answering questions on users mailing list: 1 (0.9%)
- Will promote it within my government: 1 (0.9%)
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
Thank you!

https://ovirt.org/

users@ovirt.org

@ovirt