oVirt and its community

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oVirt Release, Node, Integration Manager
Manager, software engineering, EMEA R&D RHV

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The project
oVirt board updates

Good luck to board members who changed their role:
● Michael Enescu:
  changed role from: Cisco, Strategic member
to: Caltech, Mentor

Thanks for the past contribution to the leaving members
● Scott Moser - Canonical, Strategic member
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

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
Fedora

- oVirt is not supporting Fedora anymore

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
The software
oVirt 4.4

CentOS Linux 8.2.2004
CentOS Virtualization SIG
Advanced Virtualization

Ansible 2.9.11
QEMU-KVM 4.2

Gluster 7.7
Libvirt 6.0

WildFly 19.1
ovirt 4.4 - Removed functionalities

- Dropped support for cluster level prior to 4.2.
- Dropped API/SDK v3
- Dropped ovirt-shell
- ovirt Host Deploy replaced by Ansible based code
- The OpenStack Neutron Agent cannot be configured by ovirt anymore
- Dropped ovirt metrics store
Automation

- oVirt REST API (v3 has been removed in 4.4)
- oVirt Engine API Python SDK
- oVirt Engine API Java SDK
- oVirt Engine API Ruby SDK
- oVirt Engine API Go SDK
- oVirt Ansible Roles
- oVirt Ansible Modules

Example Playbook

```yaml
---
- name: oVirt infra
  hosts: localhost
  connection: localhost
  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
```
Easier network management and configuration flexibility with NetworkManager.
VMs based on a more modern Q35 chipset with legacy SeaBIOS and UEFI firmware.
Support for direct passthrough of local host disks to VMs.
Live migration improvements for High Performance guests.
4K block disk support only for file-based storage. iSCSI/FC storage do not support 4K disks yet.
You can export a VM to a data domain.
You can edit floating disks.
Ansible Runner (ansible-runner) is integrated within the engine, enabling more detailed monitoring of playbooks executed from the engine.
In oVirt 4.4.1 the maximum memory size for 64-bit x86_64 and ppc64/ppy64le VMs is now 6TB. For x86_64 this limit is applied also to VMs in 4.2 and 4.3 Cluster Levels.
New monitoring solution providing a user interface to oVirt Data Warehouse collected data through Grafana (Deep dive available on [YouTube](https://www.youtube.com))
oVirt community and their stories
A Global Community

Global: 1587(+14%) - Myanmar: 537(+95%) - Italy: 285(+11%) - Korea: 215(-1%)
Malaysia: 113(+4%) - India: 91(+102%) - Philippines: 40 (NEW!)

New!
Sandro Bonazzola
22 maggio
Any story out there using #ovirt for virtualizing workstations for working from home as #covid19 response? I would like to hear about it.

Carlos Solano
I am starting to mount on two servers we have on one site, ideally is having two nodes cluster and mount few VMs, also a broker and have some vdi running. If looks good we move to production!

Latchezar Filtchev Sr.
Urged by Covid19 we installed twenty thin Windows 10 VM’s. Colleagues used these VM’s to RDP their physical workstations. It is not perfect but worked.

SCANI @scani89 · 26 lug
On installe ovirt, surtout ... Mais si on pouvait le faire tourner sur un FreeBSD, on jeterait centos & debian dans la même fosse.

Sandro Bonazzola @SandroBonazzola · 28 lug
tnice to see @scani89 uses @ovirt 😄 can you also share the use case?

SCANI @scani89
Well, to be quick, the goals was
1/ to discover the solution and play with it
2/ to (quickly) build a cluster with refurb hardware to be able to host various services during the very begining of the COVID crisis (partialy in case of global network blackout)
Fabian Keilholz, the IT & Solution Company GmbH

“We were asked to do IT for a hospital at the start of the year”...

“A week or two before the lockdown in Germany started, we got a call, asking us to renew the entire IT to support the nurses and doctors. They also told us, we had two and a half weeks to do that and we needed to start immediately.”

“Wherever we could, we chose the ways that meant the less time effort in organizing and installing. That was the point where oVirt came on the scene. We do a lot with open-source software and had experience with oVirt, it has proven to be reliable and fast, immediately available and had anything we needed to get started.

So we installed a hyperconverged oVirt (+Gluster) infrastructure, moved existing machines to it, and also started to introduce Windows 10 Pools for the medical staff to work with. **We also built an easy-to-use thin client based off Centos** and started deploying it all over the hospital.

To be honest, we weren't quite in time after two and half weeks, due to lots of organizational and logistic issues. However, oVirt was no part of that. From day one it **made the entire IT a lot faster, easier and more reliable** (we had some cases during the preparation with parts of the hyperconverged cluster failing, with little to no downtime, which was not possible there before the introduction of oVirt)
Products based on oVirt
Who’s using oVirt? User stories

Share your story on https://github.com/oVirt/ovirt-site/issues
Who’s using oVirt (or derivatives) in the world?

Disclaimer: the following is based on data analysis of oVirt user mailing list on Q2 2020 and have not been officially confirmed.
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How to contribute

- Developers
- Hardware
- Translators
- Testers
- Stories
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…)
- Update / fix the website and the docs
- Donate hardware  

https://bit.ly/33k0181
Thank you!

https://ovirt.org/

users@ovirt.org

@ovirt