

# fast VM

Really quick virtual machine  
creator

**Michael Arbet**  
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**OpenAlt**  
konference

# fast-vm: concept

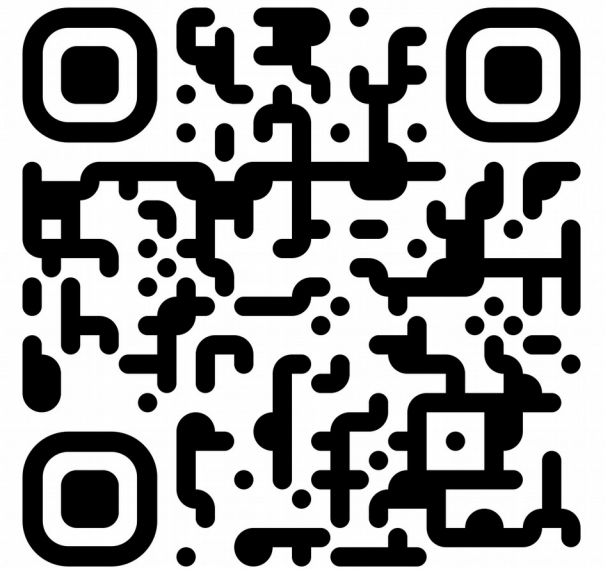
- Command line interface to create LVM, image based virtual machines
- Libvirt (KVM/QEMU)
- Thin LVM provisioning
- No OS installation, download ready to use images
- VM is created by cloning the image
- Simplified use, VMs have numbers

# fast-vm: use cases

- Single purpose, use&destroy systems
- Deployment testing
- Bug reproducers
- Use in trusted environment only!

# fast-vm: info pages

- Author: Ondrej Famera <https://www.famera.cz>
- GIT <https://github.com/OndrejHome/fast-vm>
- Doc <https://www.famera.cz/blog/fast-vm>
- Workshop resources <https://micharbet.github.io>



# fast-vm: prerequisites

- libvirt daemon
- free space on volume group for thin LVM pool
- root access

# fast-vm: installation

- RPM based: in this example for Fedora 30

```
# curl -o /etc/yum.repos.d/fast-vm.repo  
https://copr.fedorainfracloud.org/coprs/ondrejhome/fast-vm/repo/fedora-30/ondrejhome-  
fast-vm-fedora-30.repo  
  
# dnf install fast-vm
```

- DEB based:

```
# curl -o /etc/yum.repos.d/fast-vm.repo  
https://copr.fedorainfracloud.org/coprs/ondrejhome/fast-vm/repo/fedora-30/ondrejhome-  
fast-vm-fedora-30.repo  
  
# dnf install fast-vm
```

*See official documentation for more options*

# fast-vm: installation

- Prepare LVM (if you have no free space on VG, or not LVM at all)

```
# dd if=/dev/zero of=/home/mich/fvm.dd bs=1M count=17000
```

```
# losetup -f /home/mich/fvm.dd
```

```
# losetup -a
```

```
# pvcreate /dev/loop0
```

```
# vgcreate fvm /dev/loop0
```

```
# vgs
```

- One command to prepare the VM environment

```
# configure-fast-vm
```

*Here do not forget to choose correct volume group name (e.g. 'fvm')*

# fast-vm: images

```
# fast-vm import_image centos-7.6
http://ftp.linux.cz/pub/linux/people/ondrej_famera/fastvm-images/generated/
6g__centos-7.6.img.xz https://raw.githubusercontent.com/OndrejHome/fast-vm-
public-images/master/centos/xml/centos-6.3-current.xml
https://raw.githubusercontent.com/OndrejHome/fast-vm-public-images/master/
centos/hacks/6g_centos-7-hacks.sh

# fast-vm import_image debian-10.1
https://raw.githubusercontent.com/OndrejHome/fast-vm-public-images/master/
debian/xml/debian-10.xml https://raw.githubusercontent.com/OndrejHome/fast-vm-
public-images/master/debian/hacks/debian-10.sh

# fast-vm list_images

# lvs
```

*Copy/paste commands from workshop web resource*



# fast-vm: create & run VM

```
# fast-vm create centos-7.6 20
```

```
# fast-vm start 20
```

```
# fast-vm console 20
```

```
# fast-vm ssh 20
```

- Note the number '20' here denotes your new VM. The value can be between 20 and 220. The number is also the last octet of IP address. By default 192.168.22.20

```
# ssh root@192.168.22.20
```

- root's password is 'testtest'
- Now you can play with your new VM :-) Enjoy!

# fast-vm: get info, destroy VM

```
# fast-vm list
```

```
# virsh list -all
```

```
# lvs
```

```
# fast-vm stop 20 graceful
```

```
# fast-vm delete 20
```

# Thank you!

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