

# Where we are - and where we go with oVirt Node

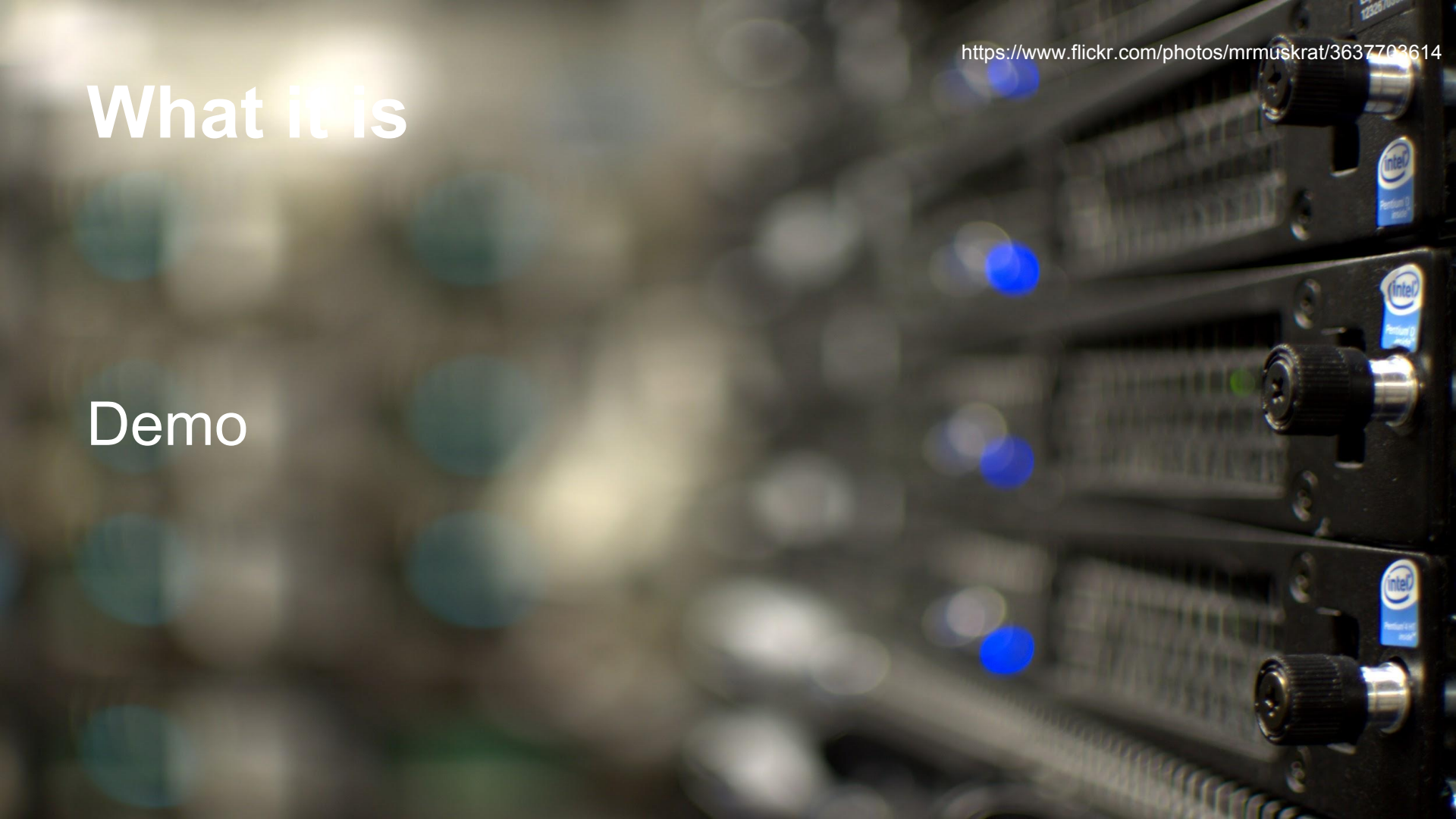
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# What it is

- “Hypervisor” for oVirt
- Minimal OS image prepared for oVirt
- Installation/upgrade on bare-metal
- Custom Installer TUI & Setup TUI
  
- Easy to deploy, manage and upgrade

# What it is

## Demo





# Pains

- User Experience
  - SELinux
  - Installation (multipath, iscsi, efi, secureboot, ...)
  - Customization (kmods, offline + online)
  - Consumption (persistence)
- Maintenance
- Build

# Causes

- User experience
  - read-only rootfs
  - installation
  - customization
- Developers
  - consumption / persistence
  - testing

# Changes

- No custom installer
- Regular “writable” root filesystem
  - Technically behaves like a regular OS
- Split rootfs, from TUI, from deployment

# Installation

- Installer: Anaconda
  - Using a regular kickstart



# Storage

- Specific LVM usage pattern
  - Boot into writable thin-volume  
a top a read-only “original”



# Upgrade

- Add a new image + new boot entry
  - Number of upgrades is limited by disk size
  - Rollback: Select old entry, boot into old image

# Local Administration

- Runtime Setup TUI is kept
  - Simplified below the surface

# Improvements

- ★ Easier
  - to consume by payloads (vdsms, ...)
  - building + test
  - to extend (just a package)
- ★ Open to configuration management
- ★ Add packages/kmods (at runtime)

# Links

- Prosa
  - <http://dummdida.tumblr.com/tagged/node>
- Sources
  - <https://github.com/fabiand/imgbased/>
- CI
  - <https://travis-ci.org/fabiand/imgbased>
  - [http://jenkins.ovirt.org/view/All/job/fabiand\\_ovirt-node-tng\\_image\\_build\\_daily/](http://jenkins.ovirt.org/view/All/job/fabiand_ovirt-node-tng_image_build_daily/)
  - [http://jenkins.ovirt.org/view/All/job/fabiand\\_ovirt-node-tng\\_image\\_check\\_functional/](http://jenkins.ovirt.org/view/All/job/fabiand_ovirt-node-tng_image_check_functional/)
  - [http://jenkins.ovirt.org/view/All/job/fabiand\\_ovirt-node-tng\\_image\\_check\\_install/](http://jenkins.ovirt.org/view/All/job/fabiand_ovirt-node-tng_image_check_install/)



# Open questions

- Stateless
  - Previous Node side blocker: Where to keep the state
  - Option: Generic Registration and/or Foreman
  - Diskless?
- Maximum minimization (smallest size)
  - Foreman Discovery Image

oVirt

# Tech - Components

