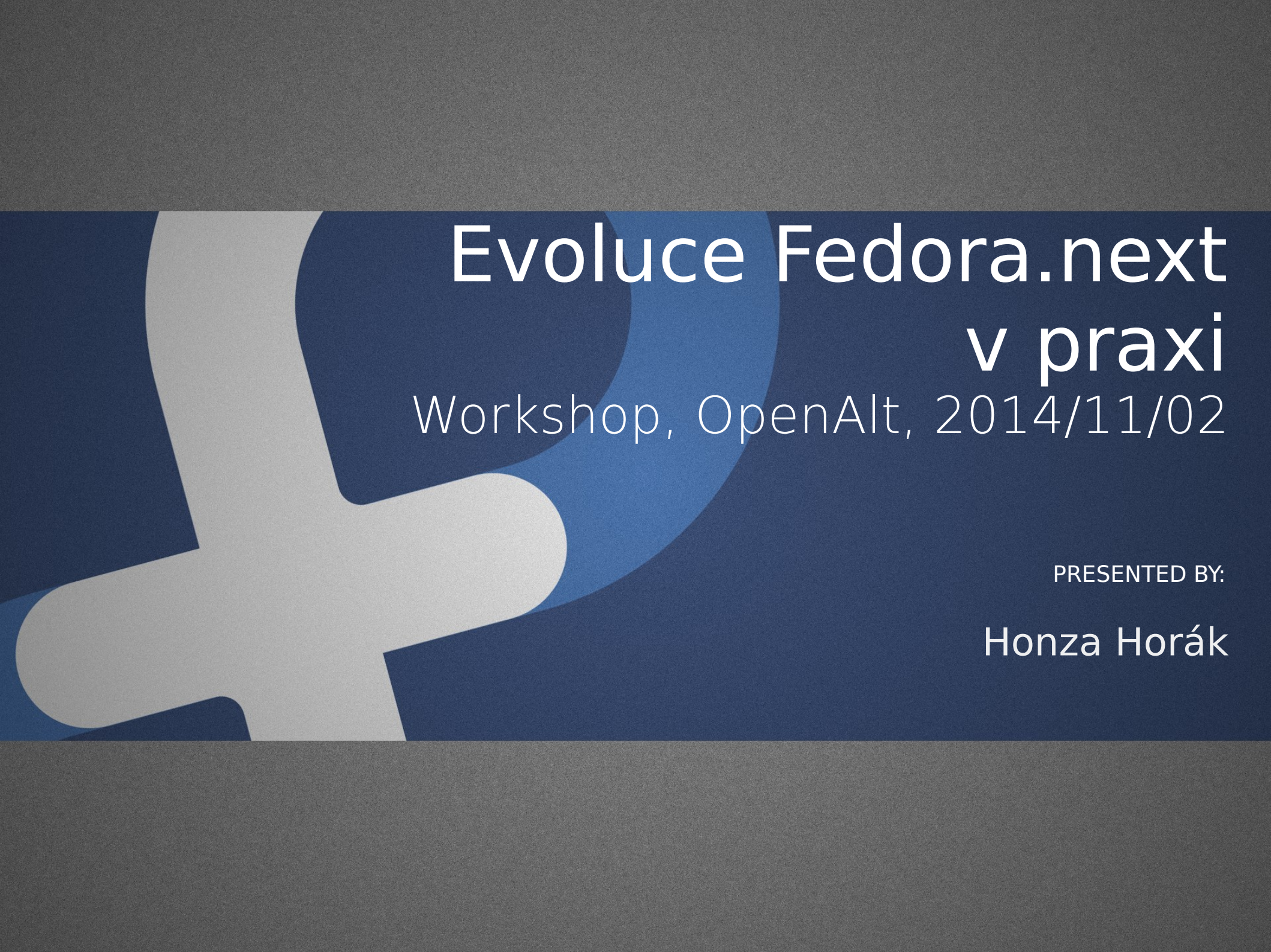




Evolve Fedora.next v praxi

Workshop, OpenAlt, 2014/11/02

PRESENTED BY:

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Co nás čeká

- Predstavení Fedora.next
- Software Collections
- Copr
- dnf
- rpmgrill
- Taskotron
- Docker
- Koschei

Predstaveni Fedora.next

- Ring 0: Just enough OS
- Ring 1: Classic OS
- Ring 2: Stacks of various SW
 - Python, RoR, ...



- <http://mattdm.org/fedora/next/#15>

• Produkty

- Produkty



- 4 Fedora working groupy:
 - Base, Server, Cloud, Env & Stacks
- Fedora Atomic pro Docker (ostree)
- Fedora Cloud do OpenStacku/AWS



Software Collections

- Kolekce SW instalovanych do /opt/\$vendor
- Pouziti:
 - `scl enable git19 'git -version'`
- Jak zbuildit:
 - SCL makra a balik `scl-utils`
- Kde hledat vic info:
 - <http://softwarecollections.org/>



copr

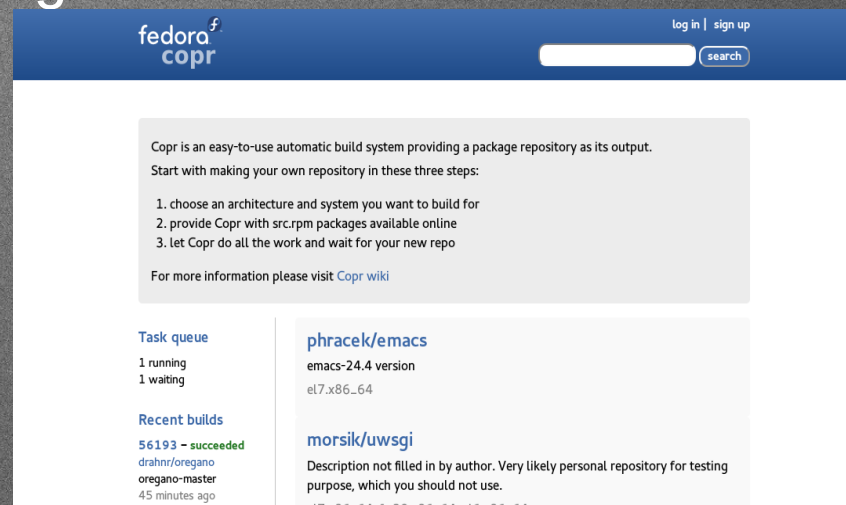
Similar to koji, but every-body may build RPMs into coprs (repositories)

```
# copr-cli build
```

```
# dnf copr search
```

```
# dnf copr enable user/coprname
```

```
http://copr.fedoraproject.org/
```



taskotron

- Nasloucha na fedmsg
- Provadi ukoly na zaklade odchyceni udalosti
- Obsahuje ResultsDB
- Stale ve fazi vyvoje
- V budoucnu bude slouzit pro automaticke testovani komponent ve Fedore
- libtaskotron – knihovna, API pro tasky
- Rpmlint, depcheck

rpmgrill

Staticka analyza RPM balicku

Testuje:

- RPM metadata
- Build.log
- Obsah RPM (payload)
 - Prava souboru
 - Podezrely obsah

dnf

- Nástupce YUMu
- Téměř kompatibilní
- Libsolve = fořr počítání závislostí

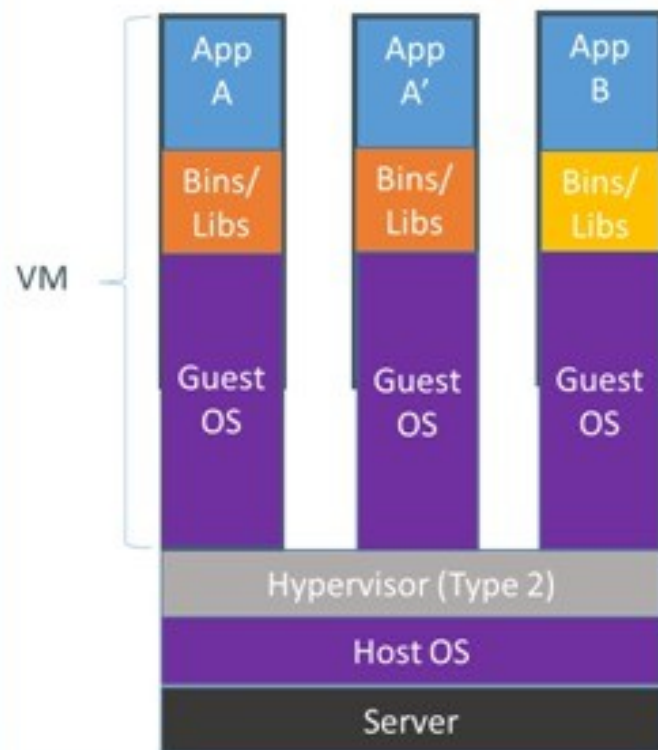
```
# dnf install something --allowerase
```

```
# dnf copr search scl-ltrace
```

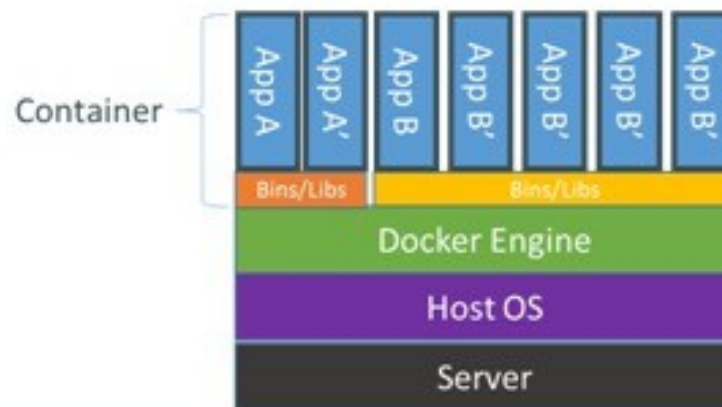
```
# dnf enable hhorak/scl-ltrace
```

Docker

Containers vs. VMs



Containers are isolated, but share OS and, where appropriate, bins/libraries



Koschei

ruby

Builds from 1 to 60 from total 60

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State	Koji task	Started	Dependency changes		
—	7976149	2014-10-29 13:58:44	emacs-filesystem	1:24.4-1.fc22	> 1:24.4-2.fc22
armhfp	7976151 (build.log root.log)		ca-certificates	2014.2.1-4.fc22	> 2014.2.1-5.fc22
i386	7976153 (build.log root.log)		binutils	2.24-26.fc22	> 2.24-27.fc22
x86_64	L7976152 (build.log root.log)				
—	7971693	2014-10-29 03:16:37	systemd-libs	216-11.fc22	> 217-1.fc22

Otázky?

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- <http://themindiseverything.eu/>
- Twiter: @HonzaHorak

