

FEARLESS UPGRADES WITH **FEDORA ATOMIC WORKSTATION**

* hereafter abbreviated to “Atomic WS”

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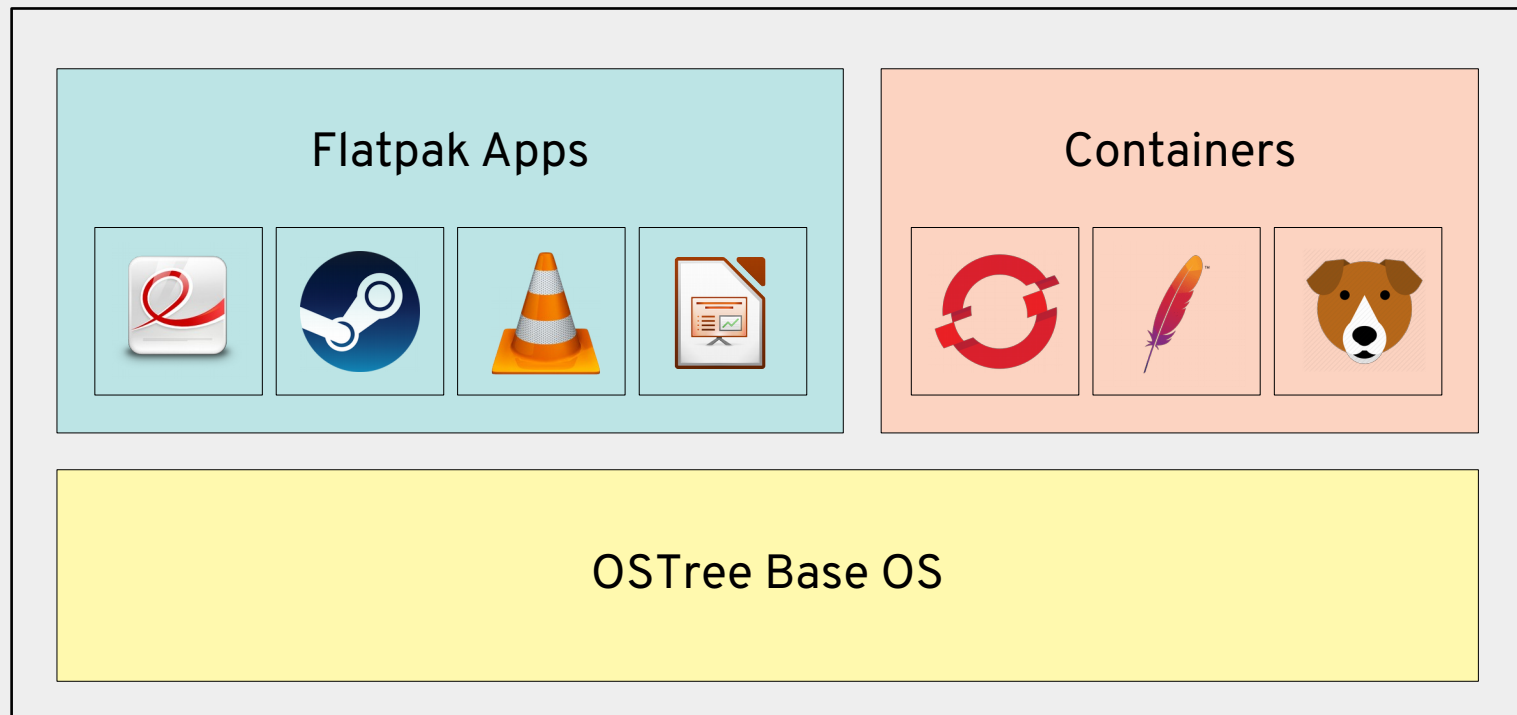
Questions that will be answered

- What is Atomic WS?
- Why should I use Atomic WS?
- How can I get started with Atomic WS?

What is Atomic WS?



What is Atomic WS?



Why should I use Atomic WS?

1. Transactional Updates

Why should I use Atomic WS?

1. Transactional Updates

X crash during Fedora update when system has hybrid graphics and systemd-udev is in update

By [adamw](#) on October 4, 2016

Hi folks! This is a PSA about a fairly significant bug we've recently been able to pin down in Fedora 24+.

Here's the short version: especially if your system has hybrid graphics (that is, it has an Intel video adapter and also an AMD or NVIDIA one, and it's supposed to switch to the most appropriate one for what you're currently doing - NVIDIA calls this 'Optimus'), **DON'T UPDATE YOUR SYSTEM BY RUNNING DNF FROM THE DESKTOP.** (Also if

Why should I use Atomic WS?

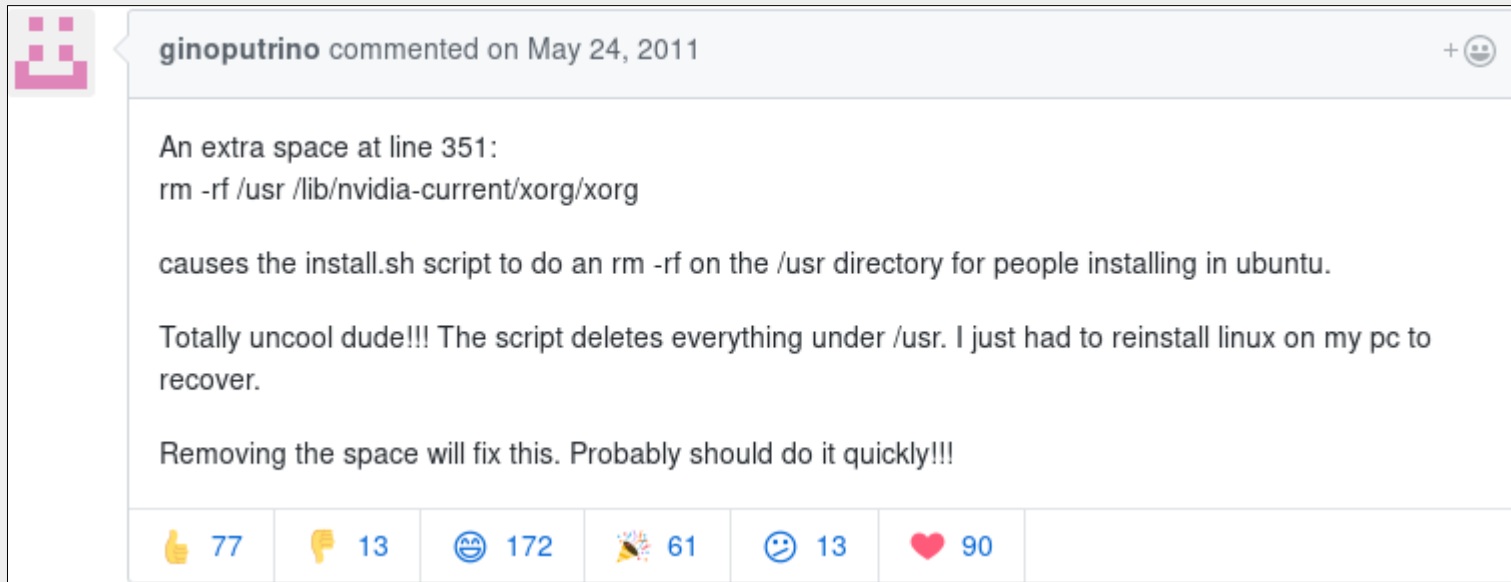
1. Transactional Updates


```
[root@c7-tmp ~]# rpm-ostree status
State: idle
Deployments:
● centos-atomic-host:centos-atomic-host/7/x86_64/standard
    Version: 7.1712.1 (2018-01-12 10:25:04)
    Commit: c6104b6bd8aeabbc19687e91359657e1292c3669e3c686438993e48481af6f2d
    GPSSignature: Valid signature by 64E3E7558572B59A319452AAF17E745691BA8335
[root@c7-tmp ~]# rpm-ostree rebase fedora-atomic:fedora/27/x86_64/atomic-host
[root@c7-tmp ~]# reboot
[root@c7-tmp ~]# rpm-ostree status
State: idle
Deployments:
● fedora-atomic:fedora/27/x86_64/atomic-host
    Version: 27.61 (2018-01-17 15:52:47)
    Commit: 772ab185b0752b0d6bc8b2096d08955660d80ed95579e13e136e6a54e3559ca9
    GPSSignature: Valid signature by 860E19B0AFA800A1751881A6F55E7430F5282EE4
```

YOLO!

Why should I use Atomic WS?

2. Immutability and Isolation



 **ginoputrino** commented on May 24, 2011

An extra space at line 351:
`rm -rf /usr /lib/nvidia-current/xorg/xorg`

causes the install.sh script to do an rm -rf on the /usr directory for people installing in ubuntu.

Totally uncool dude!!! The script deletes everything under /usr. I just had to reinstall linux on my pc to recover.

Removing the space will fix this. Probably should do it quickly!!!

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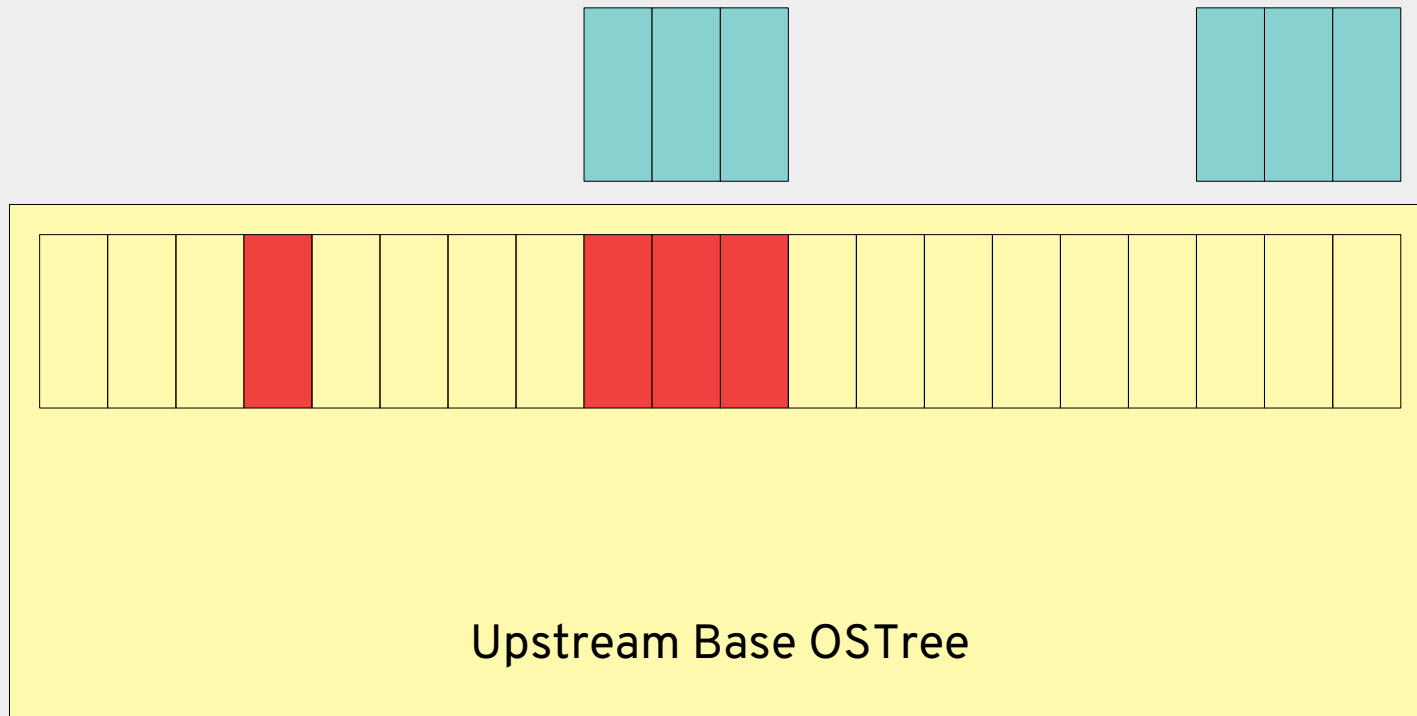
 **0xd34df00d** on Jun 16, 2011

Bleeding edge really bleeding for someone now!

😄 18 🎉 6

Why should I use Atomic WS?

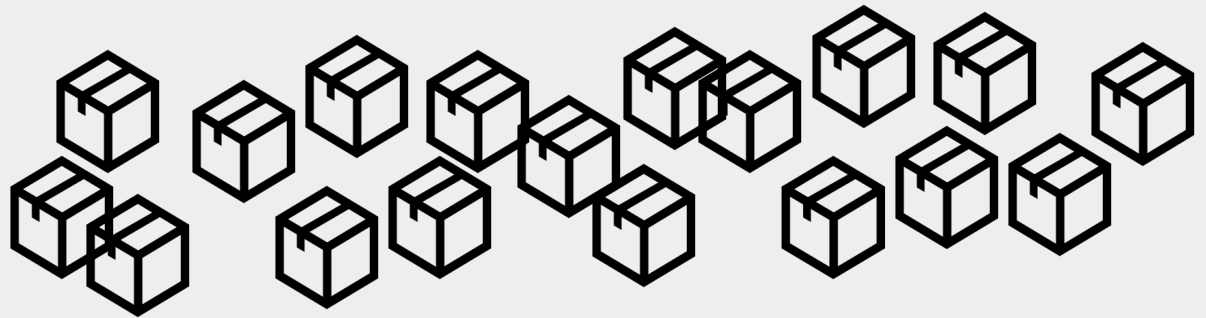
3. Effortless Change Tracking



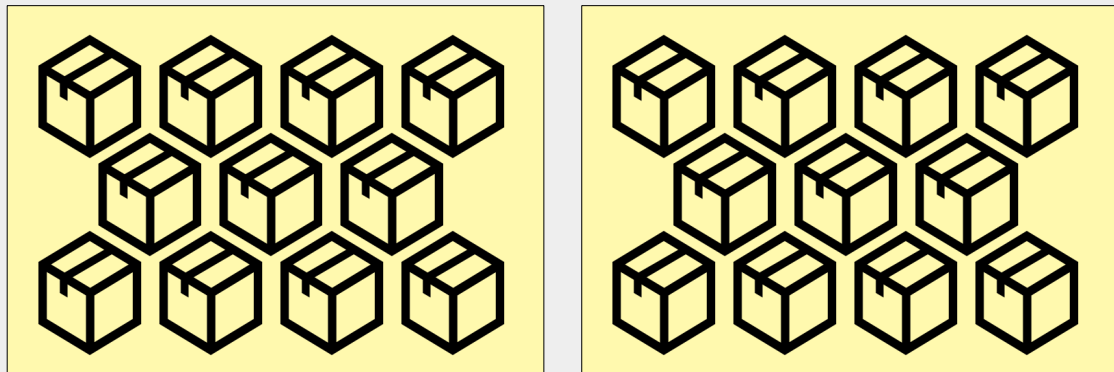
Why should I use Atomic WS?

4. Upstream Testing

Workstation:



Atomic WS:



Why should I use Atomic WS?

5. Automatic Updates

```
[root@f27-ros ~]# rpm-ostree status --verbose
State: idle; auto updates enabled (check; last run 1h 43min ago)
Deployments:
● ostree://jlebon:fedora/27/x86_64/atomic-host
   Version: 27.7 (2018-01-10 04:23:42)
   BaseCommit: d984c292eec1c23dfdf51fab9f08d4814f4fe8405b128b1dbde570faaf1b618b
   Commit: 0e058d38d73945a2daa125e6d3e5ca3e41b91ffc931f68b5c39e709629f0df3f
   StateRoot: fedora-atomic
   LayeredPackages: foo
   Unlocked: development

Available update:
  Version: 27.8 (2018-01-10 04:29:04)
  Commit: 60deb5ab59bf8060b81e73d2a6210ee4cb6e0a883055fa35537afcfe9affef8b
  SecInfo: JLEBON-2018-a537376983          Low   foo-1.3-1.x86_64
           FEDORA-2018-22d5fa8a90       Critical kernel-4.14.11-300.fc27.x86_64
           FEDORA-2018-22d5fa8a90       Critical kernel-core-4.14.11-300.fc27.x86_64
           FEDORA-2018-22d5fa8a90       Critical kernel-modules-4.14.11-300.fc27.x86_64

Upgraded: foo 1.2-1 -> 1.3-1
          kernel 4.14.9-300.fc27 -> 4.14.11-300.fc27
          kernel-core 4.14.9-300.fc27 -> 4.14.11-300.fc27
          kernel-modules 4.14.9-300.fc27 -> 4.14.11-300.fc27

[root@f27-ros ~]# █
```

How can I get started with Atomic WS?

- Download and install the ISO
- Install beside an existing system
 - Adds a new boot menu item
 - Allows you to test the waters before committing
 - Can move your data over once you're ready
- See [workstation-ostree-config](#) on Pagure for more information!

How can I get started with Atomic WS?

- If you need help:
 - [freenode/#atomic](#)
 - [freenode/#flatpak](#)
 - [atomic mailing list](#)
 - [bugzilla.redhat.com](#)
 - [github.com/projectatomic/rpm-ostree](#)
 - [github.com/flatpak/flatpak](#)

That's all, folks!

- TL;DR: you want Atomic WS because of:
 1. Transactional Updates
 2. Immutability and Isolation
 3. Effortless Change Tracking
 4. Upstream Testing
 5. Automatic Updates

Come talk to us on **freenode/#atomic** !