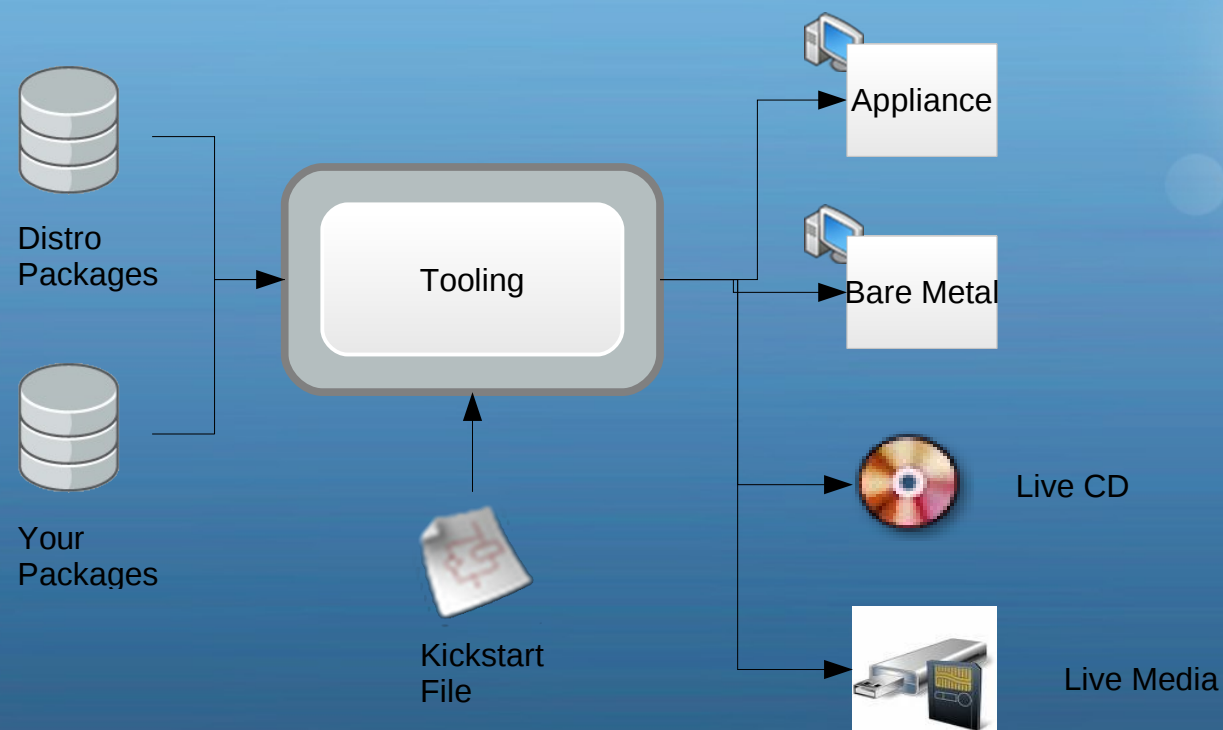


# Clouds, Live Images, Appliances



**Bryan Kearney**  
**NC State FOSS Fair**

# The Big Picture



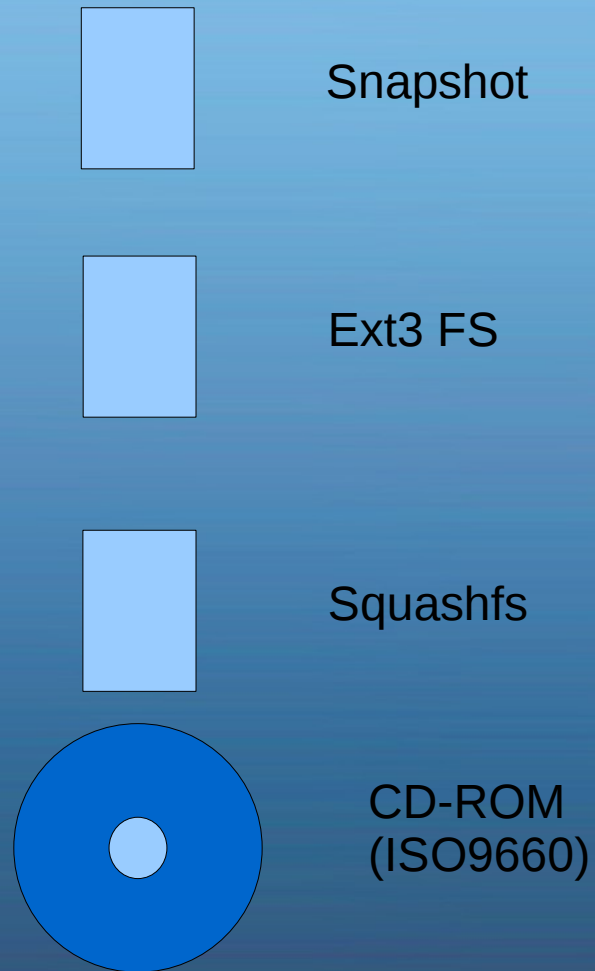
# Kickstart Pool

- [https://fedoraproject.org/wiki/Spins\\_Kickstart\\_P](https://fedoraproject.org/wiki/Spins_Kickstart_P)

- 



# What does the LiveCD look like?



# Advantages of this architecture

- Similarity to “normal” systems
- Compression
- SELinux
- Installability





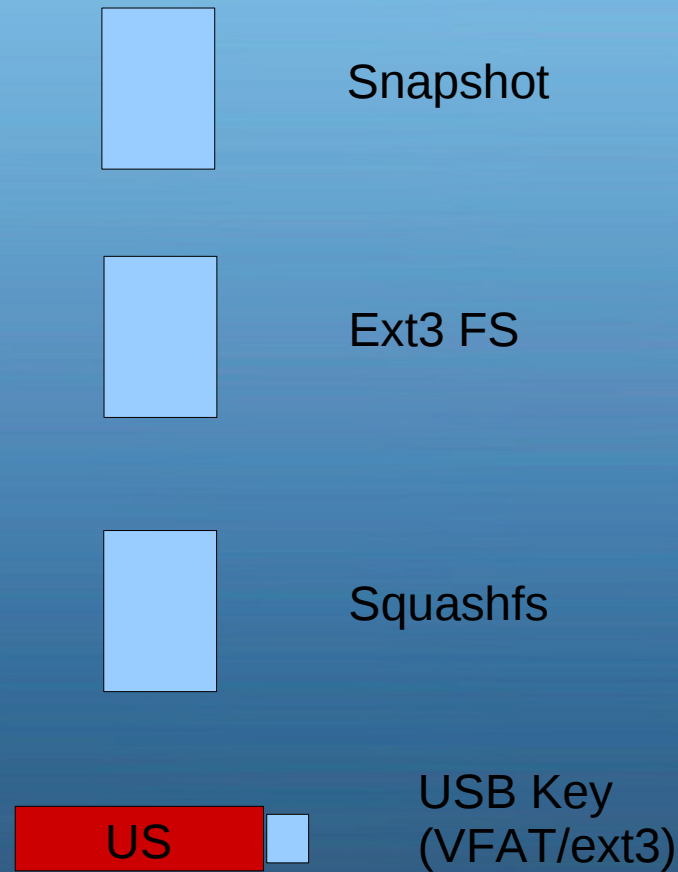
# Making a Live CD

- `# livecd-creator --config=livecd-fedora-desktop.ks --fslabel=mylive`
  - [.... wait a while ... ]
- `# ls -l mylive.iso`
- `-rw-rw-rw- 2 katzj katzj 724121600  
2008-05-07 23:05 mylive.iso`

The image features a blue gradient background with a cluster of white and blue circles of various sizes on the right side. A prominent blue circle with a white 'f' logo is part of this cluster. In the bottom right corner, the word 'fedora' is written in white lowercase letters with a small 'TM' trademark symbol.

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# Live USB



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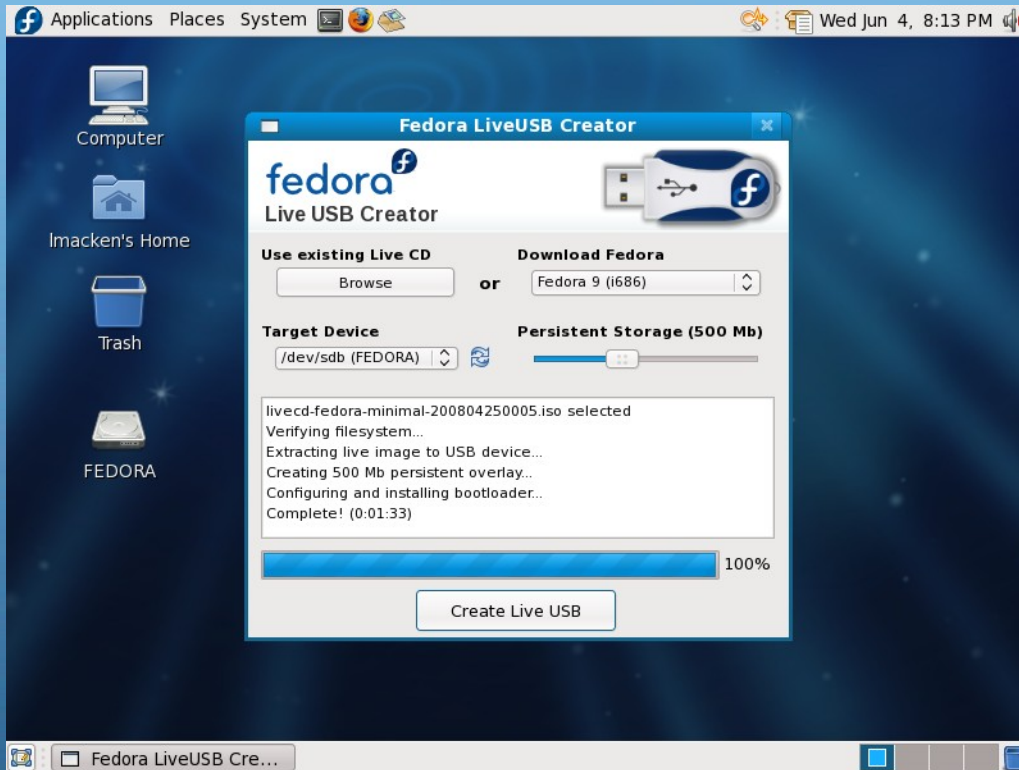
# Making a Live USB

- # `./livecd-iso-to-disk /path/to/iso /dev/sdc1`
- **Available Options**
  - Persistent Overlay Size (`--overlay-size-mb`)
  - Don't verify (`--noverify`)
  - Reset MBR (`--reset-mbr`)
  - Persistent Home Size (**\*NEW\***) (`--home-size-mb`)
    - Encrypted!
    - Allows you to “upgrade” your stick

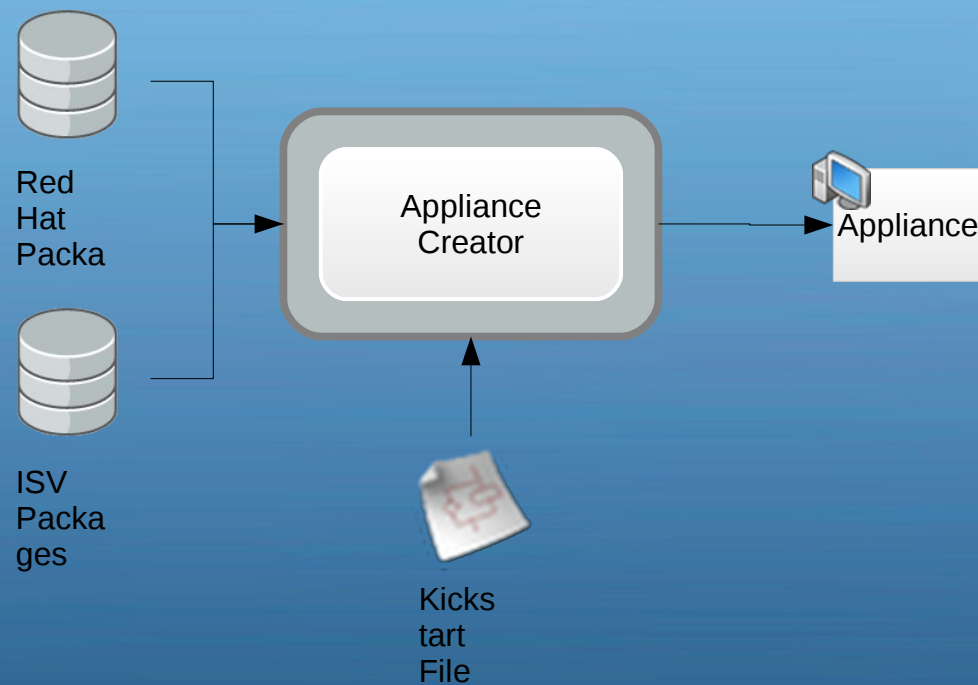




# Live USB Creator



# Appliance Creation Engine



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# Building an Appliance

- appliance-creator ....

--config

--vmem

--vcpus

--checksum

--format





# Now that we have an Appliance...

- Go Cloud:

```
ec2-convert
```

- If you download the virt-installation tooling

```
virt-convert image.xml -o vmx
```

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# Appliance Configuration Engine

- Appliance Configuration Engine is a boot time tool
- Leverages Augeas (<http://augeas.net>) to access configuration files
- Leverages Factor (<http://reductivelabs.com/projects/facter/>) to access system information
- <http://www.thincrust.net/ace.html>



# R3MIX!



<https://fedoraproject.org/wiki/Remix>

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# More Info Live CD

- Main LiveCD Wiki Page

<http://fedoraproject.org/wiki/LiveCD>

- GIT repository for livecd-creator

<http://git.fedorahosted.org/git/livecd>

- Fedora LiveCD Mailing List

[fedora-livecd-list@redhat.com](mailto:fedora-livecd-list@redhat.com)

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# More info on Thincrust

- <http://www.thincrust.net>
- 





# This Doc

- Available at

<http://bkearney.fedorapeople.org>

[ncsu\\_foss\\_fair.odp](#)

[ncsu\\_foss\\_fair.pdf](#)

