#### Cobbler

The Install Server

#### What is cobbler

- Cobbler is an Install Server (batteries are included)
- DHCP server
- tftp server
- dns server
- web interface
- snippets, templates, system profiles

#### To install or image...

- Installs are slower?
  - CentOS installs in 4-5 minutes (blank image to running system in <8 mins)
  - Depending on how the image was created Xferring a 20GB image... much longer
- Images are
  - Old (require tweaking once up)
  - maintenance heavy
  - compressed?

#### How pxe works

- Set hardware to netboot
- During boot hardware gets IP address from DHCP server
- DHCP response also contains ip for nextserver and a filename
- Hardware connects to next-server via tftp and retrieves filename
- Hardware begins executing file retrieved

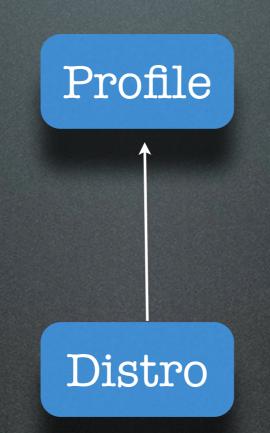
#### How cobbler Works

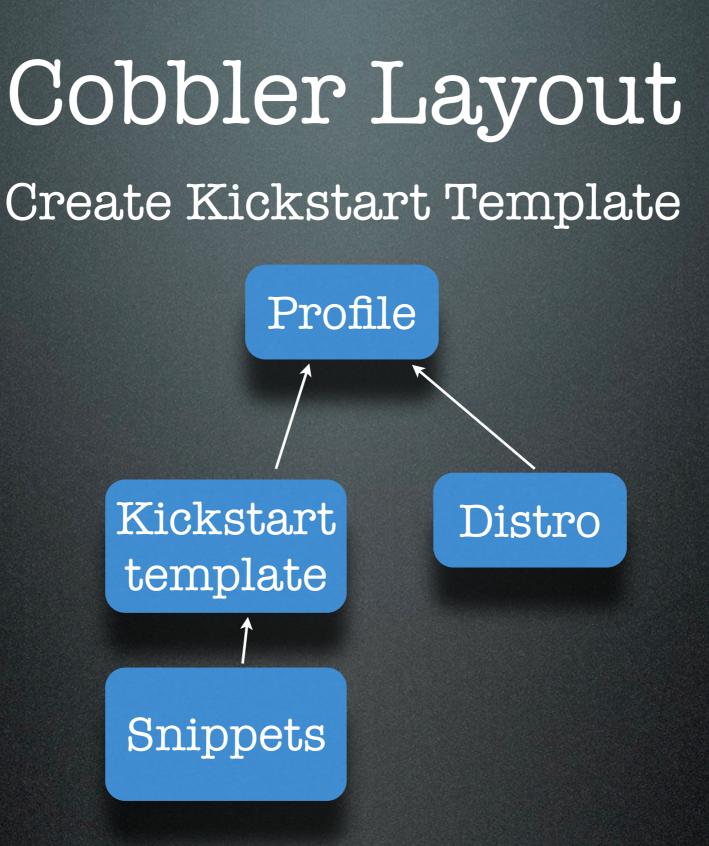
- sets up dhcp, tftp for pxe boot
- boots to pxelinux
- specifies installer kernel and initrd
- kernel arguments include a url to a kickstart(ks) file
  - kickstart is a pycheetah template
    - network config info
    - repository info
    - puppet registration
    - rhn registration
    - any other snippets that you can script

## Demo - Import ISO

### Cobbler Layout

Import ISO





#### Demo - Boot Profile

#### What's going on? Boot to Profile

- Standard PXE boot
  - Loads default profile selection menu
- Based on user's selection
  - Loads kernel, initrd
  - Basic kickstart
    - No hostname info, no static ip

## Demo - Create System

# Create System

System

Profile



#### Kickstart template

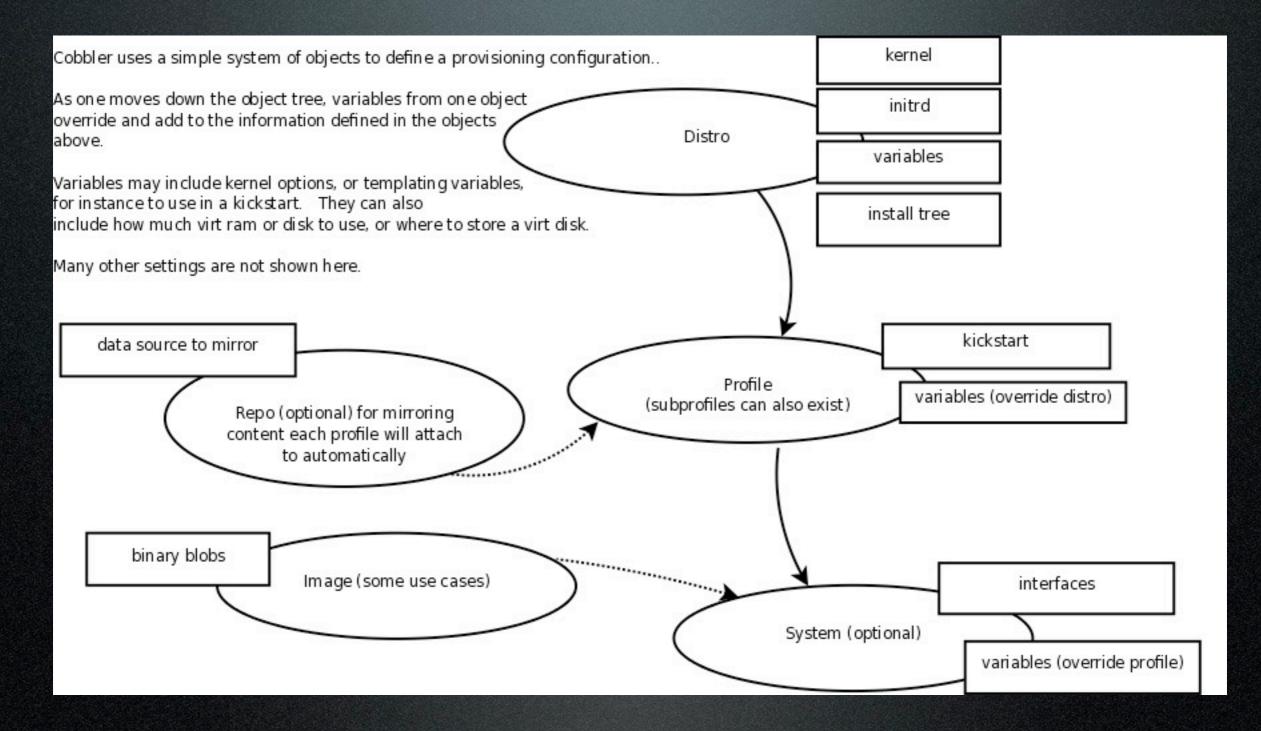
Snippets

#### What's going on? Boot System

#### • Machine PXE boots

- This time pxelinux loads a config file specific to the machine (based on the machine's mac address)
- pxelinux config file has info for
  - kernel
  - initrd
  - kickstart specific to the system

#### Cobbler Layout



#### The End

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