RHEL One Page Deployment

(Note: Need a better project name!)

# Sequence of Events

1. Prepare form
   1. Get list of Templates?
   2. Get list of Active Directory folders?
   3. Get next available IP from iPAM
2. Present form to user and get data
3. Validate user data
   1. Make sure the hostname is valid
   2. Make sure hostname is not already used
      1. vMware
      2. DNS
      3. AD
   3. Ping IP to make sure it’s available
   4. Make sure HDD Size/CPU/Memory requested are all something reasonable
4. Write IP and Hostname to iPAM
5. Clone VM
   1. Connect to vCenter
   2. Clone VM with
      1. IP
      2. Hostname
      3. CPU count
      4. Memory Allocation
      5. Additional HDDs
6. Connect to VM via SSH
   1. Subscribe
   2. Install Katello Agent
   3. Create Swap Space
   4. Create additional LVMs
   5. Configure SSD
   6. Join Domain
   7. Install additional Apps
   8. Update all (Yum)
   9. Add users to sudoers

# Information to Gather

* From AD
  + List of OUs the computer could be in
  + List of Groups that could be in Sudoers
* From VMware
  + List of Templates
* From iPAM
  + Next available IP
* From Satellite
  + List of Activation Keys
* From User
  + CPUs
  + Memory
  + Additional App Drives
    - Name
    - Size
    - Mount Point
  + OU to put the computer in
  + Additional Apps to install
  + Groups to put in sudoers

# To Do List

* Setup new Satellite environment
* Test/Develop Jenkins/vCenter integration
* Figure out iPAM REST API
* Write scripts to run on first boot
* Document RHEL Template build
* Make list of application groups that would be candidates for activation keys
* Make list of other applications that could be installed
* Decide on groups to allow in sudoers
* Discuss AD layout
* Discuss one VM template or multiple templates for different apps
* Come up with reasonable limits for CPU/Memory/Drive space
* Discuss and list possible use cases