Bare Metal Standard

* CPU
  + Minimum single CPU prefer dual CPUs
  + Minimum quad core
  + 8 core duals is probably a sweet spot
  + dual 16 core maybe for compute
* Memory
  + Minimum 16GB DIMM
  + prefer 64GB ECC
  + Compute 128 or 256 GB ECC
* Network
  + Minimum quad Gig ethernet
  + Consider a second card for bonding
  + Consider 10GB cards
* PCI slots
  + PCI or PCIe slot for video (if not on board)
  + 2 PCIe for Network
  + 2 PCIe for Storage
* Motherboard
  + SAS and SATA
* Drives
  + No green drives
  + Option 1 system drives
    - 2x 100GB SSD Mirrored OS
    - 2x 4TB 7200 RPM for /var Mirrored
  + Option 2 system drives
    - 2x 2TB 7200 RPM Mirrored
  + Storage Systems
    - 8 bay integrated into system
    - 16 bay external enclosures
    - SAS preferred SATA minimum
    - 4TB minimum drives
* Drive Partitions use LVM
  + /
    - 30GB
  + SWAP
    - 32GB
  + /boot
    - 500MB
  + /tmp
    - 2GB
  + /SHARE
    - 5GB
  + /home
    - 20GB
  + /var/log
    - 10GB
  + /var
    - As big as possible
    - mirrored separate drives as option
* Operating System
  + Centos 7
    - Install Options
      * Server with GUI
      * Packages
        + Virtualization Client
        + Virtualization Hypervisor
        + Virtualization Tools
    - packages
      * need puppet
      * need KVM
      * need Git
    - users
      * root
      * admin
* Install Process
  + Install as above
  + I use a server desktop because a lot of configuration is simplified by GUI tools
  + Update
  + Install GIT
    - Get git install tool from GITHUB
    - make it executable in /usr/local/bin
    - file name is install-git
  + Load up GIT
    - This repo is:
      * https://github.com/grizzlylabs/bootstrap.git