# PXE Server Fresh Install SOP

## Create VM / Prep Server for install

* 1. 4 CPUs
  2. 4096 MB / 4GB RAM
  3. 200 GB Storage
  4. Network Adapter: Bridged (for VM)

## Make ISO available

* 1. Use latest Fedora Linux Everything ISO: https://alt.fedoraproject.org/
  2. Physical: Burn to CD/USB as needed
  3. Virtual: Load ISO into datastore

## Boot to ISO

* 1. Physical: Interrupt boot, select CD/USB as needed
  2. Virtual: Load virtual CD drive with ISO, boot

## Installation

* 1. Need keyboard, mouse and video to install
  2. Select language
  3. Change timezone
  4. Click network, turn on and set hostname to pxe
  5. Install destination: Custom, then:
     1. Change dropdown to Standard Partition
     2. Click to create mountpoints
     3. Change root to 200GB (will adjust)
     4. Click done, Accept Changes
  6. Create user; Check to be administrator, fill in username and password
  7. Software Selection: Minimal install
  8. Click Begin Installation, reboot when done.

## First Boot

* 1. sudo dnf update
  2. reboot (if new kernel installed)
  3. sudo dnf install ansible git NetworkManager-tui
  4. git clone <https://github.com/sjtrotter/fedora-pxe-setup.git>
  5. use nmtui to set IP manually
  6. edit fedora-pxe-setup/pxe-setup.yml to reflect IP space
     1. DHCP Section:
        1. subnet line
        2. next-server lines (x2)
        3. range line
        4. domain-name-servers line
        5. option routers line
     2. BIOS Boot Menu & UEFI Boot Menu Sections:
        1. inst.repo / inst.stage2 lines
  7. sudo ansible-playbook fedora-pxe-setup/pxe-setup.yml
     1. This will take A WHILE especially the Local Install Repo task (will be downloading 80+ GB)
  8. Done. Server should be ready-to-use.