**Pxe-UEFI安装3.6**

**一、网卡配置**

**enp0s25 192.168.1.2**

1. **软件安装**

**yum安装vsftpd、dnsmasq、shim、syslinux、nfs**

**二、dhcp配置**

**编辑/etc/dnsmasq.conf添加如下配置**

**interface=enp0s25（根据实际网卡修改）**

**dhcp-range=192.168.1.3,192.168.1.100,12h（根据实际ip修改）**

**dhcp-boot=BOOTX64.EFI（引导文件）**

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| --- |
| **conf-dir=/etc/dnsmasq.d,.rpmnew,.rpmsave,.rpmorig**  **bogus-priv**  **filterwin2k**  **interface=enp0s25**  **dhcp-range=192.168.1.3,192.168.1.100,12h**  **dhcp-boot=BOOTX64.EFI**  **enable-tftp**  **#tftp-root=/var/tftp/**  **tftp-root=/var/lib/tftp/**  **#tftp-root=/var/tftp/6A/**  **dhcp-authoritative** |

1. **tfp配置**

**mount /dev/cdrom /mnt (挂载光盘镜像)**

**vim /etc/exports添加如下**

**/mnt \*(ro,sync)**

**systemctl start nfs**

**三、tfp配置**

**1、创建tftp目录**

**mkdir -p /var/lib/tftp/**

1. **拷贝uefi文件**

**cd /mnt/EFI/BOOT/**

**cp -r \* /var/lib/tftp/**

**chmod 777 /var/lib/tftp/grubx64.efi**

**chmod 777 /var/lib/tftp/BOOTX64.EFI**

**cp /boot/efi/EFI/kylin/shim.efi /var/lib/tftp/**

**mkdir -p /var/lib/tftp/images/pxeboot**

**cp /mnt/isolinux/initrd.img /var/lib/tftp/images/pxeboot/**

**cp /mnt/isolinux/vmlinuz /var/lib/tftp/images/pxeboot/**

**3、修改引导文件**

**vim /var/lib/tftp/grub.cfg**

**修改添加ks=ftp://192.168.1.2/pub/aks.cfg,内容如下：**

|  |
| --- |
| **set default="0"**  **function load\_video {**  **insmod efi\_gop**  **insmod efi\_uga**  **insmod video\_bochs**  **insmod video\_cirrus**  **insmod all\_video**  **}**  **load\_video**  **set gfxpayload=keep**  **insmod gzio**  **insmod part\_gpt**  **insmod ext2**  **set timeout=6**  **### END /etc/grub.d/00\_header ###**  **search --no-floppy --set=root -l 'Kylin-3.3-x86\_64'**  **### BEGIN /etc/grub.d/10\_linux ###**  **menuentry 'Install Kylin 3.3' --class fedora --class gnu-linux --class gnu --class os {**  **linuxefi /images/pxeboot/vmlinuz ks=ftp://192.168.1.2/pub/aks.cfg quiet**  **initrdefi /images/pxeboot/initrd.img**  **}**  **menuentry 'Test this media & install Kylin 3.3' --class fedora --class gnu-linux --class gnu --class os {**  **linuxefi /images/pxeboot/vmlinuz inst.stage2=hd:LABEL=Kylin-3.3-x86\_64 rd.live.check quiet ks=ftp://192.168.1.2/pub/aks.cfg**  **initrdefi /images/pxeboot/initrd.img**  **}**  **submenu 'Troubleshooting -->' {**  **menuentry 'Install Kylin 3.3 in basic graphics mode' --class fedora --class gnu-linux --class gnu --class os {**  **linuxefi /images/pxeboot/vmlinuz inst.stage2=hd:LABEL=Kylin-3.3-x86\_64 xdriver=vesa nomodeset quiet ks=ftp://192.168.1.2/pub/aks.cfg**  **initrdefi /images/pxeboot/initrd.img**  **}**  **menuentry 'Rescue a Kylin system' --class fedora --class gnu-linux --class gnu --class os {**  **linuxefi /images/pxeboot/vmlinuz inst.stage2=hd:LABEL=Kylin-3.3-x86\_64 rescue ks=ftp://192.168.1.2/pub/aks.cfg quiet**  **initrdefi /images/pxeboot/initrd.img**  **}**  **}** |

**4、修改安装文件**

**1、启动ftp**

**systemctl start vsftpd**

1. **找一台已经安装好的系统拷贝/root/anaconda-ks.cfg文件**

**复制到本机/var/ftp/**

**vim /var/ftp/pub/aks.cfg**

**chmod 777 /var/ftp/pub/aks.cfg**

**修改如附件**

|  |
| --- |
| **#version=DEVEL**  **# System authorization information**  **auth --enableshadow --passalgo=sha512**  **# Use CDROM installation media**  **#cdrom**  **nfs --server=192.168.1.2 --dir=/mnt**  **# Use graphical install**  **graphical**  **# Run the Setup Agent on first boot**  **firstboot --enable**  **ignoredisk --only-use=sda**  **# Keyboard layouts**  **keyboard --vckeymap=cn --xlayouts='cn'**  **# System language**  **lang zh\_CN.UTF-8**  **# Network information**  **network --bootproto=dhcp --device=ens33 --onboot=off --ipv6=auto --no-activate**  **network --hostname=localhost.localdomain**  **# Root password**  **rootpw --iscrypted $6$obd4qxVBYh.EJhEx$MDC8cbEvAC4E3zqKZaVCLYWhXqPbLqqGNEOCuaPBy96ybwQKhCO7mYWI9x00XE7pbcmxveuwG7dNs4.8t3KSA1**  **# System services**  **services --enabled="chronyd"**  **# System timezone**  **timezone Asia/Shanghai --isUtc**  **# X Window System configuration information**  **xconfig --startxonboot**  **# System bootloader configuration**  **bootloader --append=" crashkernel=auto" --location=mbr --boot-drive=sda**  **# Partition clearing information**  **#clearpart --none --initlabel**  **zerombr**  **clearpart --all**  **# Disk partitioning information**  **part /boot --fstype="xfs" --ondisk=sda --size=2048**  **part /boot/efi --fstype="efi" --ondisk=sda --size=1024 --fsoptions="umask=0077,shortname=winnt"**  **part pv.637 --fstype="lvmpv" --ondisk=sda --size=950796**  **volgroup kylin --pesize=4096 pv.637**  **logvol / --fstype="xfs" --size=307200 --name=root --vgname=kylin**  **logvol swap --fstype="swap" --size=65536 --name=swap --vgname=kylin**  **logvol /home --fstype="xfs" --size=578053 --name=home --vgname=kylin**  **%packages**  **@^Desktop-Applications-Development**  **@additional-devel**  **@base**  **@core**  **@debugging**  **@desktop-debugging**  **@development**  **@dial-up**  **@directory-client**  **@fonts**  **@guest-agents**  **@guest-desktop-agents**  **@internet-browser**  **@java-platform**  **@mate-apps**  **@mate-desktop**  **@multimedia**  **@network-file-system-client**  **@networkmanager-submodules**  **@performance**  **@perl-runtime**  **@platform-devel**  **@print-client**  **@ruby-runtime**  **@x11**  **chrony**  **kexec-tools**  **%end**  **%addon com\_redhat\_kdump --enable --reserve-mb='auto'**  **%end**  **%anaconda**  **pwpolicy root --minlen=6 --minquality=1 --notstrict --nochanges --notempty**  **pwpolicy user --minlen=6 --minquality=1 --notstrict --nochanges --emptyok**  **pwpolicy luks --minlen=6 --minquality=1 --notstrict --nochanges --notempty**  **%end** |

1. **启动服务**

**systemctl stop firewalld**

**setenforce 0**

**systemctl restart nfs**

**systemctl start vsftpd**

**systemctl restart dnsmasq.service**