基于dnsmasq引导的pxe服务器

环境：centos7.4虚拟机，关闭防火墙、SELinux，清空iptables规则，搭建好yum源

IP地址：192.168.4.1

#配置过程

[root@node01 ~]# yum -y install dnsmasq syslinux httpd

[root@node01 ~]# mkdir /var/lib/tftp

[root@node01 ~]# cp /usr/share/syslinux/pxelinux.0 /var/lib/tftp/

[root@node01 ~]# mkdir /var/lib/tftp/centos

[root@node01 ~]# cd /var/lib/tftp/centos/

[root@node01 centos]# lftp 192.168.4.254/iso/centos/isolinux

cd 成功, 当前目录=/iso/centos/isolinux

lftp 192.168.4.254:/iso/centos/isolinux> get vmlinuz initrd.img

54312528 bytes transferred

Total 2 files transferred

lftp 192.168.4.254:/iso/centos/isolinux> exit

[root@node01 centos]# cd ..

[root@node01 tftp]# lftp 192.168.4.254/iso/centos/isolinux

cd 成功, 当前目录=/iso/centos/isolinux

lftp 192.168.4.254:/iso/centos/isolinux> get vesamenu.c32 splash.png isolinux.cfg boot.msg

156194 bytes transferred

Total 3 files transferred

lftp 192.168.4.254:/iso/centos/isolinux> exit

[root@node01 tftp]# mkdir pxelinux.cfg

[root@node01 tftp]# mv isolinux.cfg pxelinux.cfg/default

[root@node01 tftp]# vim pxelinux.cfg/default

[root@node01 tftp]# cat pxelinux.cfg/default

default vesamenu.c32

timeout 60

display boot.msg

menu clear

menu background splash.png

label linux

menu label ^Install CentOS 7

kernel centos/vmlinuz

append initrd=centos/initrd.img text ks=http://192.168.4.1/ks/centos\_ks.cfg

[root@node01 tftp]#cd

[root@node01 ~]# vim /etc/dnsmasq.conf

[root@node01 ~]# cat /etc/dnsmasq.conf | grep -v "^$" | grep -v "^#"

port=5353

listen-address=192.168.4.1,127.0.0.1

domain=tedu.cn

dhcp-range=192.168.4.100,192.168.4.200,255.255.255.0,6h

dhcp-option=option:router,192.168.4.254

dhcp-option=option:ntp-server,192.168.4.254

dhcp-boot=pxelinux.0,node01.tedu.cn,192.168.4.1

pxe-prompt="Press F8 for menu.", 60

pxe-service=x86PC, "Install Linux", pxelinux

enable-tftp

tftp-root=/var/lib/tftp/

conf-dir=/etc/dnsmasq.d,.rpmnew,.rpmsave,.rpmorig

[root@node01 ~]# mkdir /var/www/html/ks

[root@node01 ~]# touch /var/www/html/ks/centos\_ks.cfg

[root@node01 ~]# vim /var/www/html/ks/centos\_ks.cfg

[root@node01 ~]# cat /var/www/html/ks/centos\_ks.cfg

#platform=x86, AMD64, 或 Intel EM64T

#version=DEVEL

# Install OS instead of upgrade

install

# Keyboard layouts

keyboard 'us'

# Root password

rootpw --iscrypted $1$FveRK80k$PutMdeSMjjptSKOjj8aw40

# Use network installation

url --url="ftp://192.168.4.254/iso/centos"

# System language

lang en\_US

# Firewall configuration

firewall --disabled

# System authorization information

auth --useshadow --passalgo=sha512

# Use text mode install

text

firstboot --disable

# SELinux configuration

selinux --disabled

# Network information

network --bootproto=dhcp --device=eth0

# Reboot after installation

reboot

# System timezone

timezone Asia/Shanghai --isUtc

# System bootloader configuration

bootloader --location=mbr

# Clear the Master Boot Record

zerombr

# Partition clearing information

clearpart --all --initlabel

# Disk partitioning information

part / --fstype="xfs" --grow --size=1

%post --interpreter=/bin/bash

rm -rf /etc/yum.repos.d/\*

cat >> /etc/yum.repos.d/development.repo << EOF

[development]

name=dvd

baseurl=ftp://192.168.4.254/iso/centos/

enabled=1

gpgcheck=0

EOF

%end

%packages

@base

%end

%addon com\_redhat\_kdump --disable --reserve-mb='auto'

%end

[root@node01 ~]#

#启动服务

[root@node01 ~]# systemctl start dnsmasq.service httpd

[root@node01 ~]# systemctl enable dnsmasq.service httpd.service

#测试装机

