# 源码文件

## 2.2.2 Ubuntu LN 1 的配置(配置文件见附录一)

1、软件的更新和安装,进入 root 模式

```
#更新软件
sudo apt-update
sudo apt-upgrade
#安装 iptables 工具 (NAT)
sudo apt install net-tools
#安装 DHCP 配置工具 (DHCP)
sudo apt install isc-dhcp-server
#安装 DNS 配置和检测工具
sudo apt install bind9
sudo apt install dnsutils
#安装 SSH 服务端
sudo apt install openssh-server
#安装 ufw 防火墙
sudo apt install ufw
```

#### 2、DHCP 配置相关文件和命令

```
##########################DHCP
#接口文件
/etc/netplan/01-network-manager-all.yaml
#DHCP 配置文件
/etc/dhcp/dhcpd.conf
#DHCP 侦听接口文件
/etc/default/isc-dhcp-server
#上面三个文件配置完, 执行网络和 DHCP 更新命令
sudo netplan apply
sudo systemctl restart isc-dhcp-server. service
```

### 3、DNS 配置相关文件和命令

```
#########################DNS
#缓存域名服务器配置文件
/etc/bind/named.conf.options
#执行更新命令
sudo systemctl restart bind9. service
#域名解析 local 文件
/etc/bind/named.conf.local
#执行备份正向域名解析文件命令
sudo cp /etc/bind/db.local /etc/bind/db.liningtest.com
#正向域名解析文件
/etc/bind/db.liningtest.com
```

```
#执行备份反向域名解析文件命令
sudo cp /etc/bind/db. local /etc/bind/db. 192. 168. 48
#反向域名解析文件
/etc/bind/db. 192. 168. 48

#执行更新命令
sudo systemctl restart bind9. service
```

#### 4、NAT 配置相关文件和命令

#### 2.2.3 Ubuntu LN 2 的配置(配置文件见附录二)

1、软件的安装,进入 root 模式

#安装 SSH 客户端

sudo apt install openssh-client

2、DHCP 配置相关文件和命令

#接口文件

/etc/netplan/01-network-manager-all.yaml

3、SSH 配置相关文件和命令

#####################################DHCP

#SSH 连接命令

ssh lnwindows@192.168.188.1

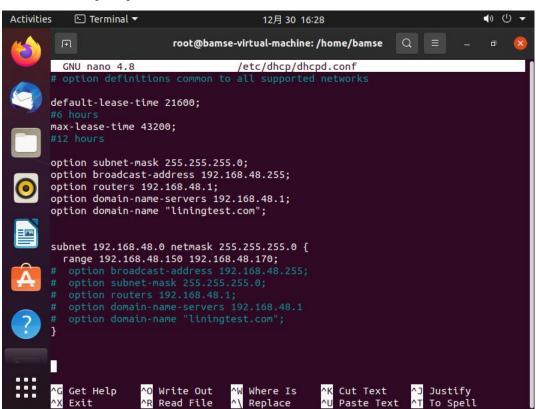
#### 附录一: Ubuntu LN 1 配置文件内容

1, /etc/netplan/01-network-manager-all.yaml

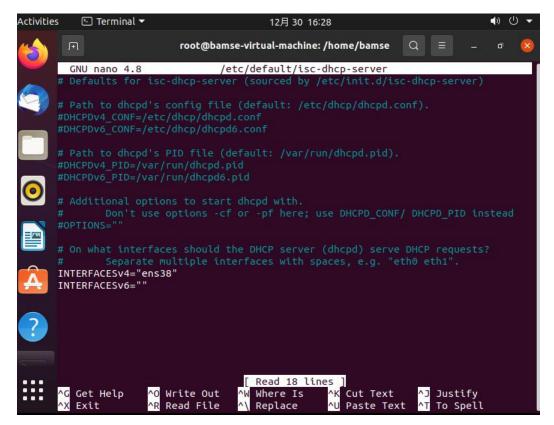
```
Activities
                                                                             (□) (□) •

    Terminal ▼
                                         12月 30 16:26
                          root@bamse-virtual-machine: /home/bamse
                           /etc/netplan/01-network-manager-all.yaml
        GNU nano 4.8
      network:
        version: 2
        ethernets:
          ens33:
            dhcp4: no
            addresses: [192.168.188.29/24]
            gateway4: 192.168.188.2
            nameservers:
                addresses: [192.168.188.29]
          ens38:
            dhcp4: no
            addresses: [192.168.48.1/24]
                 nameservers:
         Get Help
                     ^O Write Out
                                       Where Is
                                                     Cut Text
                                                                  ^J Justify
                        Read File
         Exit
                                       Replace
                                                     Paste Text
```

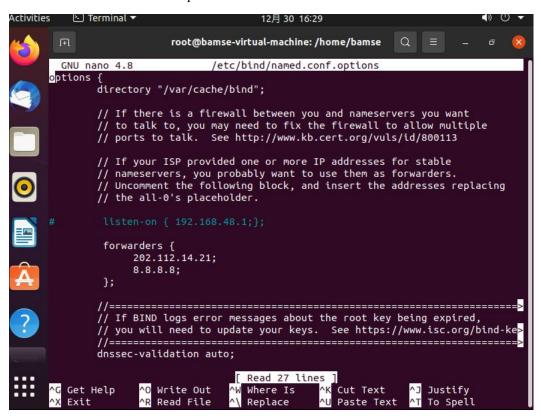
2, /etc/dhcp/dhcpd.conf



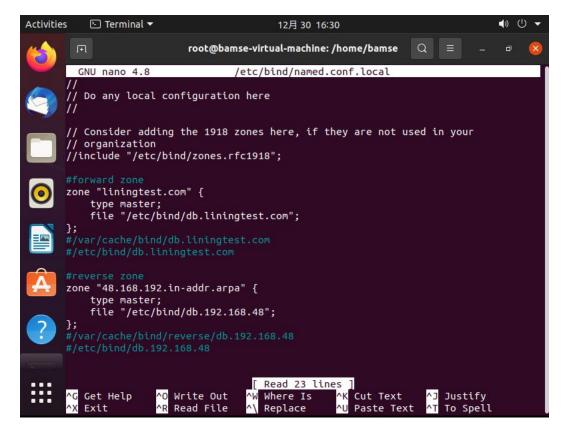
3. /etc/default/isc-dhcp-server



4, /etc/bind/named.conf.options



5, /etc/bind/named.conf.local



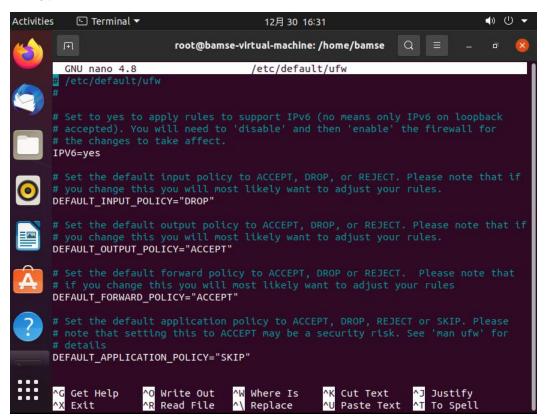
6, /etc/bind/db.liningtest.com

```
Activities
           Terminal ▼
                                                                                         (h) (l)
                                               12月 30 16:30
                              root@bamse-virtual-machine: /home/bamse
                                      /etc/bind/db.liningtest.com
         GNU nano 4.8
         BIND data file for liningtest.com
       ;
$TTL
                604800
       0
                IN
                         SOA
                                   liningtest.com. root.liningtest.com. (
                                   2020122801
                                                    ; Serial
                                   604800
                                                     : Refresh
                                                     ; Retry
; Expire
                                    86400
                                   2419200
                                   604800 )
                                                     ; Negative Cache TTL
                IN
                         NS
                                  ns.liningtest.com.
                IN
                                  192.168.48.1
                IN
                                   192.168.48.1
       mail
                IN
                                   192.168.48.150
                         AAAA
                IN
                                          [ Read 16 lines ]
                        ^O Write Out
^R Read File
                                                                           ^J Justify
^T To Spel
                                            Where Is
           Get Help
                                                             Cut Text
                                            Replace
                                                             Paste Text
                                                                              To Spell
```

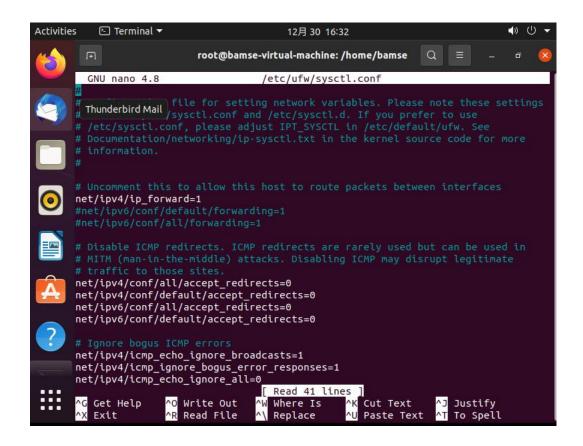
7、/etc/bind/db.192.168.48



#### 8, /etc/default/ufw



9, /etc/ufw/sysctl.conf



# 附录二: Ubuntu\_LN\_2 配置文件内容

1, /etc/netplan/01-network-manager-all.yaml

