

DHCP SERVER

1. "cd /usr/ports/net/isc-dhcp43-server" , "make install clean && rehash"

```
padli@padli-K84L: ~  
root@raisa:/ # cd /usr/ports/net  
net-im/  net-mgmt/ net-p2p/ net/  
root@raisa:/ # cd /usr/ports/net/i  
iaxmodem/      igmpproxy/      ipsorc/         isc-dhcp42-relay/  
icmpinfo/      ilbc/           ipsumdump/      isc-dhcp42-server/  
icpld/         imapproxy/      ipsvd/          isc-dhcp43-client/  
iet/           iodine/         irrd/           isc-dhcp43-relay/  
ifdepd/        ip2location/    isc-dhcp41-client/ isc-dhcp43-server/  
iffinder/      ip6_int/        isc-dhcp41-relay/ istgt/  
ifstat/        ipgrab/         isc-dhcp41-server/  
ifstated/      iplog/          isc-dhcp42-client/  
root@raisa:/ # cd /usr/ports/net/is  
isc-dhcp41-client/ isc-dhcp42-client/ isc-dhcp43-client/ istgt/  
isc-dhcp41-relay/  isc-dhcp42-relay/  isc-dhcp43-relay/  
isc-dhcp41-server/ isc-dhcp42-server/ isc-dhcp43-server/  
root@raisa:/ # cd /usr/ports/net/isc-dhcp43-server/  
root@raisa:/usr/ports/net/isc-dhcp43-server # make install clean && rehash
```

2. edit "vi /etc/rc.conf", tambahkan baris

```
padli@padli-K84L: ~  
hostname="raisa"  
  
wlans_run0="wlan0"  
ifconfig_wlan0="WPA SYNCDHCP"  
  
ifconfig_re0="inet 192.168.2.1 netmask 255.255.255.0"  
  
sshd_enable="YES"  
dhcpd_enable="YES"  
dhcpd_ifaces="re0"  
dhcpd_conf="/usr/local/etc/dhcpd.conf"  
  
# Set dumpdev to "AUTO" to enable crash dumps, "NO" to disable  
dumpdev="AUTO"
```

3. edit "vi /usr/local/etc/dhcpd.conf" tambahkan baris

```
padli@padli-K84L: ~  
option domain-name "raisa";  
option domain-name-servers 8.8.8.8;  
  
default-lease-time 10000;  
max-lease-time 20000;  
  
ddns-update-style none;  
  
subnet 192.168.2.0 netmask 255.255.255.0 {  
    range 192.168.2.5 192.168.2.10;  
    option routers 192.168.2.1;  
}
```

4. restart service "/etc/netstart" && "/usr/local/etc/rc.d/isc-dhcpd restart"

```
padli@padli-K84L: ~  
290  
    ether f4:ec:38:93:0d:83  
    nd6 options=29<PERFORMNUD,IFDISABLED,AUTO_LINKLOCAL>  
    media: IEEE 802.11 Wireless Ethernet autoselect mode 11g  
    status: associated  
wlan0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> metric 0 mtu 1500  
    ether f4:ec:38:93:0d:83  
    inet 192.168.1.103 netmask 0xfffff00 broadcast 192.168.1.255  
    nd6 options=29<PERFORMNUD,IFDISABLED,AUTO_LINKLOCAL>  
    media: IEEE 802.11 Wireless Ethernet OFDM/24Mbps mode 11g  
    status: associated  
    ssid raisa channel 1 (2412 MHz 11g) bssid e8:de:27:68:f5:02  
    country US authmode WPA2/802.11i privacy ON deftxkey UNDEF  
    TKIP 2:128-bit txpower 0 bmiss 7 scanvalid 60 protmode CTS wme  
    roaming MANUAL  
route: writing to routing socket: File exists  
add net fe80:: gateway ::1 fib 0: route already in table  
route: writing to routing socket: File exists  
add net ff02:: gateway ::1 fib 0: route already in table  
route: writing to routing socket: File exists  
add net ::ffff:0.0.0.0: gateway ::1 fib 0: route already in table  
route: writing to routing socket: File exists  
add net ::0.0.0.0: gateway ::1 fib 0: route already in table  
root@raisa:/ #
```

```

padli@padli-K84L: ~
root@raisa:/ # /usr/local/etc/rc.d/isc-dhcpd start
Starting dhcpd.
Internet Systems Consortium DHCP Server 4.3.2
Copyright 2004-2015 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Config file: /usr/local/etc/dhcpd.conf
Database file: /var/db/dhcpd/dhcpd.leases
PID file: /var/run/dhcpd/dhcpd.pid
Wrote 0 leases to leases file.
Listening on BPF/re0/90:e6:ba:22:81:81/192.168.2.0/24
Sending on   BPF/re0/90:e6:ba:22:81:81/192.168.2.0/24
Sending on   Socket/fallback/fallback-net
root@raisa:/ #

```

5. tes koneksi di client

```

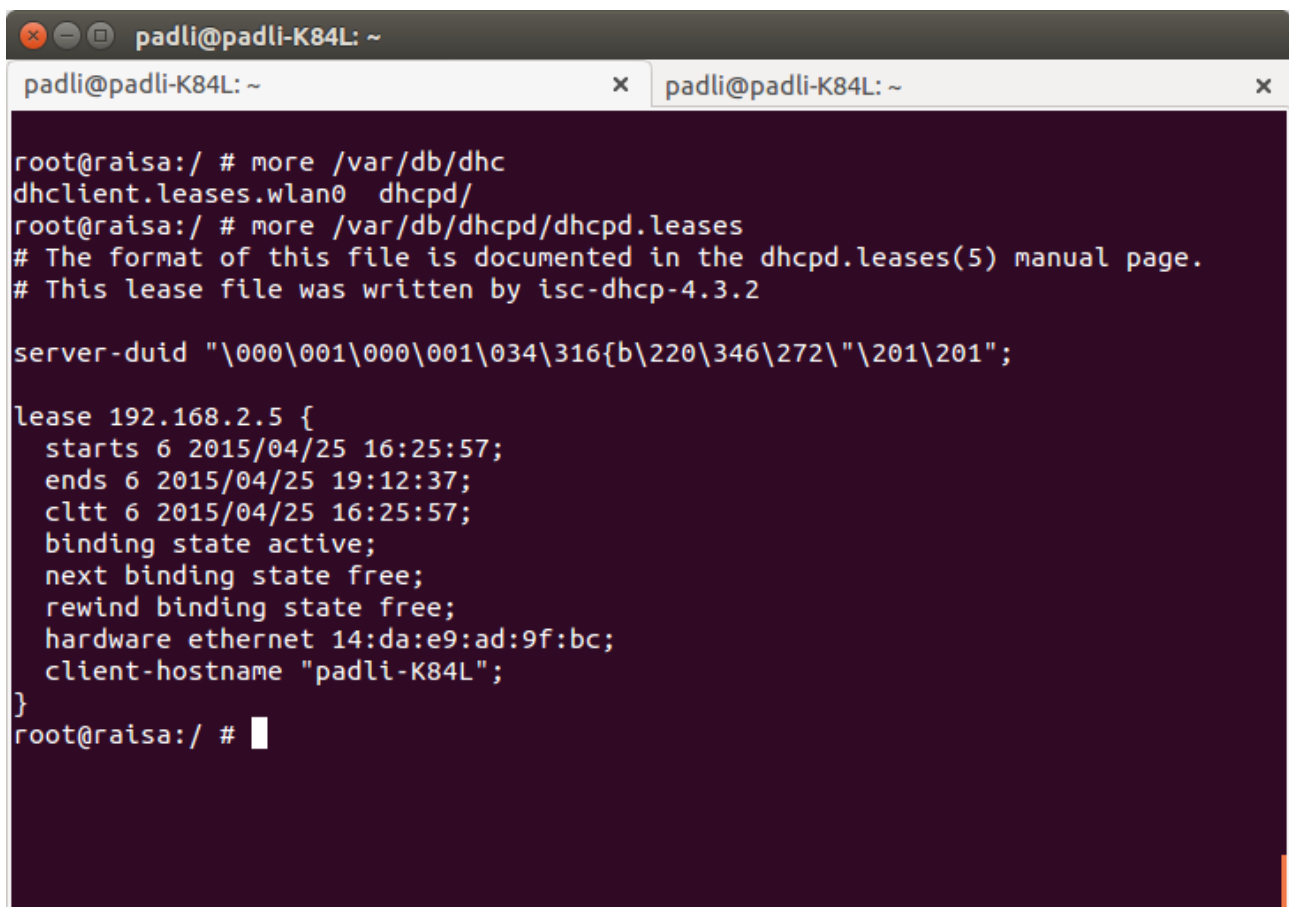
padli@padli-K84L: ~
padli@padli-K84L: ~
padli@padli-K84L:~$ ifconfig eth0
eth0      Link encap:Ethernet  HWaddr 14:da:e9:ad:9f:bc
          inet addr:192.168.2.5  Bcast:192.168.2.255  Mask:255.255.255.0
          inet6 addr: fe80::16da:e9ff:fead:9fbc/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:5 errors:0 dropped:0 overruns:0 frame:0
          TX packets:57 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:866 (866.0 B)  TX bytes:9012 (9.0 KB)

padli@padli-K84L:~$ route -n
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0         192.168.2.1    0.0.0.0         UG    0     0        0 eth0
192.168.1.0     0.0.0.0        255.255.255.0   U     9     0        0 wlan0
192.168.2.0     0.0.0.0        255.255.255.0   U     1     0        0 eth0

padli@padli-K84L:~$ ping 192.168.2.1
PING 192.168.2.1 (192.168.2.1) 56(84) bytes of data.
64 bytes from 192.168.2.1: icmp_seq=1 ttl=64 time=0.141 ms
64 bytes from 192.168.2.1: icmp_seq=2 ttl=64 time=0.174 ms
^C
--- 192.168.2.1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 999ms
rtt min/avg/max/mdev = 0.141/0.157/0.174/0.020 ms
padli@padli-K84L:~$

```

6. cek log ip "more /var/db/dhcpd/dhcpd.leases"



```
padli@padli-K84L: ~
padli@padli-K84L: ~ x padli@padli-K84L: ~ x
root@raisa:/ # more /var/db/dhc
dhclient.leases.wlan0 dhcpd/
root@raisa:/ # more /var/db/dhcpd/dhcpd.leases
# The format of this file is documented in the dhcpd.leases(5) manual page.
# This lease file was written by isc-dhcp-4.3.2

server-duid "\000\001\000\001\034\316{b\220\346\272\""\201\201";

lease 192.168.2.5 {
  starts 6 2015/04/25 16:25:57;
  ends 6 2015/04/25 19:12:37;
  cltt 6 2015/04/25 16:25:57;
  binding state active;
  next binding state free;
  rewind binding state free;
  hardware ethernet 14:da:e9:ad:9f:bc;
  client-hostname "padli-K84L";
}
root@raisa:/ #
```

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