

DHCP 3

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RHEL / CentOS 3

Debian / Ubuntu 3

DHCP

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RHEL / CentOS

```
[root@pxe ~]# yum install dhcp dhcp-common
```

Debian / Ubuntu

```
[root@pxe ~]# yum install dhcp dhcp-common
```

```
# dhcpd.conf
#

allow booting;
allow bootp;
option option-128 code 128 = string;
option option-129 code 129 = text;

option domain-name-servers 8.8.8.8, 168.126.63.1;
default-lease-time 600;
max-lease-time 7200;
authoritative;
log-facility local7;

subnet 192.168.222.0 netmask 255.255.255.0 {
    range dynamic-bootp 192.168.222.101 192.168.222.200;
    next-server 192.168.222.254;
    filename "pxelinux.0";
}
```

```
ddns-update-style none ;
// DDNS      DHCP

ad-hoc : DHCP  Failover      DDNS
DHCP 2.x      ad-hoc        DDNS

interim : DHCP  Failover      DDNS
DHCP 3.x      interim      DDNS
```

```
none : DHCP  DNS                      Only DHCP

default-lease-time 10800 ; //DHCP  IP
max-lease-time 32400 ; //DHCP  IP
authoritative ;
//IP                      DHCP Server          IP
DHCP Server  DHCPNAK Message

log-facility local7 ;
//syslog          log          (Man Page      )

shared-network "NDOCS-NET" {
    //shared-network          DHCP                      Subnet          IP

                                Interface[NIC]          Subnet

                                ::          shared-network "NDOCS-NET" {          DHCP
    Subnet          "NDOCS-NET"
    shared-network ["          "]
    DHCP          {          }
    dhcpd_interface = "hme0" ;
    //DHCP          NIC          ::
    dhcpd_interface = "hme0" ;          DHCP          NIC가 hme0          NIC

                                dhcpd_interface = [ NIC ]
    DHCP          NIC가
    subnet 58.72.95.128 netmask 255.255.255.128 {
        range 58.72.95.210 58.72.95.220 ;
        option domain-name "ndocs.com" ;
        option domain-name-servers 58.92.95.222 ;
        option routers 58.72.95.129 ;
    option broadcast-address 58.72.95.255 ; }
    subnet 61.40.66.64 netmask 255.255.255.192 {
        range dynamic-bootp 61.40.66.77 61.40.66.87 ;
        option domain-name-servers ns.ndocs.com ;
        option routers 61.40.66.100 ;
    option broadcast-address 61.40.66.127 ; }
    //DHCP          61.40.65.64 / 255.255.255.192 Subnet
    61.40.65.77 ~ 87 IP          BOOTP
    DHCP          BOOTP          DHCP          inetd          bootp

    subnet 192.168.102.0 netmask 255.255.255.0 {
        range dynamic-bootp 192.168.102.2 192.168.102.100 ;
        option domain-name-servers 203.248.252.2 ;
        option routers 192.168.102.254 ;
    option broadcast-address 192.168.102.255 ; }
    //DHCP          192.168.102.0 / 255.255.255.0 Subnet          192.168.102.2~ 100
    IP          BOOTP
    subnet 203.248.252.0 netmask 255.255.255.128 {
        range 203.248.252.10 203.248.252.120 ;
        option domain-name-servers 203.248.252.70 ;
```

```

    option routers 203.248.252.100 ;
    option broadcast-address 203.248.252.127 ;
    default-lease-time 600 ;
max-lease-time 7200 ; }
//DHCP 203.248.252.0 / 255.255.255.128 Subnet
203.248.252.10 ~ 120 IP
class "foo" {
match if substring (option vendor-class-identifier, 0, 4) = "SUNW";
}

subnet 10.17.224.0 netmask 255.255.255.0 {
option routers gw.ndocs.com ; }
subnet 10.0.29.0 netmask 255.255.255.0 {
option routers gw1.ndocs.com ; }
pool {
allow members of "foo" ;
range 10.17.224.10 10.17.224.250 ; }
pool {
deny members of "foo";
range 10.0.29.10 10.0.29.230 ; }
//DHCP "SUNW" Hardware DHCP "foo"
IP 10.12.224.10 ~ 250 IP
Class "SUNW" DHCP IP
10.0.25.10 ~ 230 IP
//class DHCP IP DHCP Class
class "foo" { match if substring (option vendor-class-identifier,
0, 4) = "SUNW"; }
DHCP "SUNW" Hardware DHCP
"foo"
Class
class "[Class]" {match if substring (option vendor-class-
identifier,[ ])= "[ ]";}
//pool class ::
pool { allow members of "foo" ; range 10.17.224.10 10.17.224.250 ; }
Class
foo class DHCP IP
10.17.224.10 ~ 250 IP
pool { allow members of "[Class]" ; range [IP ];}
//pool { deny members of "foo" ; range 10.0.29.10 10.0.29.230 ; }
Class
foo class DHCP IP 10.0.29.10
~
230 IP pool { deny members of "[Class]"
; range [IP
];}
DHCP Server Class DHCP Client DHCP Server
ISC-DHCP . DHCP Client DHCP Agent ISC-DHCP DHCP
Agent가 DHCP Agent DHCP Server Class가

```

```
group "one" {
    subnet 192.168.1.0 netmask 255.255.255.0 {
        range 192.168.1.110 192.168.1.250 ;
        option routers 192.168.1.254 ;
        option subnet-mask 255.255.255.0 ;
        option domain-name "blanco.net" ;
        option domain-name-servers 192.168.1.1 ;
        option broadcast-address 192.168.1.255 ; }
}
//group          DHCP          IP          DHCP
::
    group "one" { subnet , netmask, range, option routers, option
subnet-mask, .. }
        DHCP          IP          DHCP          192.168.1.110 ~ 250 IP
            DHCP          "one"
    group "[          ]" { subnet , netmask, range, option routers, .. }

host windowsxp { <--
    hardware ethernet 00:07:e9:06:85:07 ;
    fixed-address 192.168.102.50 ;
    option host-name "windowsxp.ndocs.com" ; }
host linuxboot {
    hardware ethernet 0:0:c0:5d:bd:95 ;
    server-name "linux.ndocs.com" ;
    filename "/tmp/vmunix.boot" ;
}
}
//BOOTP          /tmp          vmunix.boot Kernel
Booting
//DHCP          BOOTP          DHCP
Booing          Disk          Booting 가          Kernel          B00TP

tftp Daemon
} //
```

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