



DHCP

Linuxadministration I IDV417

DHCP

- Dynamic Host Configuration Protocol
- Internet Software Consortium
- `yum install dhcp`



<https://www.isc.org/software/dhcp>

dhcpcd.conf

Parametrar

Styr hur uppgifter utförs
Måste av slutas med ;

Deklareringar

Beskriver nätverkets topologi
Innesluts med { }

Globala parametrar

```
option routers 10.0.0.1;
```

```
host challenger {
```

```
    option routers 10.0.0.254;
```

```
    hardware ethernet 00:05:02:a7:76:da;
```

```
    fixed-address 10.0.0.100;
```

```
}
```

Parametrar

default-lease-time
max-lease-time
range
hardware
server-name
boot-unknown-clients
fixed-address
use-host-decl-names

```
default-lease-time 3600;  
max-lease-time 7200;  
range 10.0.0.10 10.0.0.20;  
hardware ethernet 00:0c:29:e6:a1:54;  
server-name kvarnholmen;  
fixed-address 10.0.0.30;  
boot-unknown-clients true;  
use-host-decl-names true;
```

DHCP-alternativ

domain-name
domain-name-servers
subnet-mask
time-offset
routers
broadcast-address

```
option domain-name "kalmar.se";  
option domain-name-servers dns1.kalmar.se, dns2.kalmar.se;  
option subnet-mask 255.0.0.0;  
option time-offset 3600;  
option routers 10.0.0.5;  
option broadcast-address 10.255.255.255;
```

subnet

```
subnet 10.0.0.0 netmask 255.0.0.0 {  
    # Parametrar  
}
```



range och host

range

```
subnet 10.0.0.0 netmask  
255.0.0.0 {  
    range 10.0.0.10 10.0.0.20;  
}
```

host

```
host challenger {  
    # Parametrar  
}
```


Statisk tilddelning av IP-adresser

```
default-lease-time 7200;  
  
subnet 10.0.0.0 netmask 255.0.0.0 {  
    range 10.0.0.10 10.0.0.20;  
}  
  
host challenger {  
    hardware ethernet 00:0c:29:e6:a1:54;  
    fixed-address 10.0.0.30;  
}
```

Gruppbaserad konfiguration

```
group {  
    # Parametrar  
}
```

```
group {  
  
    subnet 192.168.0.0 netmask 255.255.255.0 {  
  
        range 192.168.0.10 192.168.0.20;  
        option routers 192.168.0.254;  
        option domain-name "kalmar.se";  
        option domain-name-servers 192.168.0.1;  
        option time-offset 3600; # Svensk tid  
  
    }  
  
    host voyager {  
        option host-name "voyager.kalmar.se";  
        hardware ethernet 00:A0:78:8E:9E:AA;  
        fixed-address 192.168.0.4;  
  
    }  
  
    host challenger {  
        option host-name "challenger.kalmar.se";  
        hardware ethernet 00:A1:DD:74:C3:F2;  
        fixed-address 192.168.0.6;  
  
    }  
  
}
```

dhcpcd.leases

```
lease 192.160.0.2 {  
  starts 6 2004/04/18 17:40:39;  
  ends 6 2004/04/18 18:40:39;  
  binding state active;  
  next binding state free;  
  hardware ethernet 00:08:02:67:34:D2;  
  uid 01:00:08:02:67:34:D2;  
  client-hostname "challenger";  
}
```

DHCP med DNS



+



ad-hoc

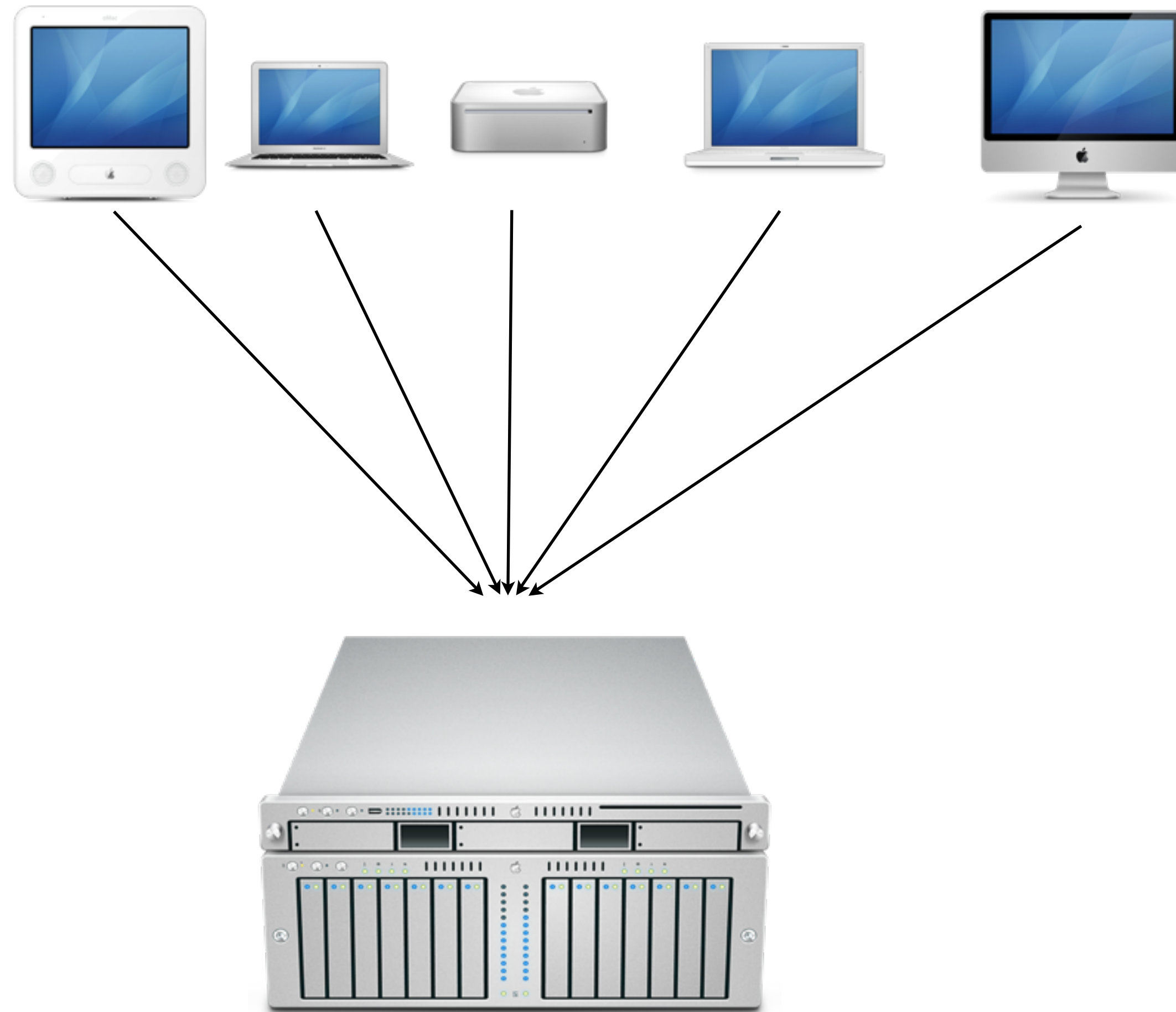


```
ddns-hostname challenger;
```

```
ddns-domain-name "kalmar.se";
```

interim

allow client-updates;



dhcpcd.conf

```
default-lease-time 3600;
max-lease-time 7200;
ddns-update-style interim;
ddns-domainname "kalmar.se";

option domain-name "kalmar.se";
option domain-name-servers dns1.kalmar.se, dns2.kalmar.se;
option routers 10.0.0.254;

subnet 10.0.0.0 netmask 255.0.0.0 {
    range 10.0.0.10 10.0.0.20;
    option subnet-mask 255.0.0.0;
    option broadcast-address 10.255.255.255;
}

group {
    option routers 10.0.0.253;

    host challenger {
        ddns-hostname challenger;
        fixed-address 10.0.0.30;
        hardware ethernet 00:0c:f3:23:1d:32;
    }
}
```

Starta servicen

```
/etc/init.d/dhcpd start
```


Konfigurera nätverkskortet

`/etc/sysconfig/networking-scripts`

```
DEVICE=eth0  
BOOTPROTO=dhcp  
ONBOOT=yes
```