

Ubuntu Üzerine DHCP Sunucu Kurulumu

Başlangıç olarak Vmware 7.1.261024 programı kuruldu. Ardından Ubuntu 11.04 Vmware içinde 1024 MB Ram, 10 GB Harddisk ve tek İşlemci kullanılarak kurulumu yapıldı.











Kurulum esnasında "sazuis" adlı kullanıcı oluşturuldu. Parolası "123456" olarak belirlendi.



Ardından terminale girilerek sudo apt-get install dhcp3-server komutuile DHCP server kurulumu başlatıldı.



#### İnternet üzerinden kurulum tamamlandı.



Dhcp server /etc/init.d/isc-dhcp-server restart komutuyla başlatıldı.

Kurulum tamamlandıktan sonra DHCP ayarlarına giriş ve ayarların yapılandırılması için aşağıda gösterildiği gibi "Alt+F2" tuş kombinasyonu kullanılarak ".conf" dosyasını açmak için gerekli olan **gedit** /etc/dhcp/dhcpd.conf komutu girildi.Bu ayarlar içinde değişiklik yapılabilmesi için sudo yazılması mecburidir.Yazılmadığı takdirde ayarlarda hiçbir değişiklik yapılamayacaktır.



Daha sonra bu pencereden aşağıdaki ayarlar yapıldı;

DNS adresimizi istendiği şekilde yazıyoruz.

#### option domain-name-servers 8.8.8.8;

DHCP istemcilerin dahil olacağı alt ağ maskesi(subnet) aşağıdaki gibi ayarlandı.

#### option subnet-mask 255.255.255.0;

DHCP istemcilere dahil oldukları ağın yayın(broadcast) adresi aşağıdaki gibi verilir.

## option broadcast-address 10.10.10.255;

Ağ geçidini de istendiği gibi olması için aşağıya yazıyoruz.

# option routers 10.10.10.1;

DHCP sunucunun hangi IP ağı üzerinden IP adresi dağıtacağı, Subnet paramatresinin bulunduğu satırın sonunda ,bu IP adresine ait olan diğer parametrelerin belirtilmesi amacıyla parantez açılmıştır.Parantez kapatılana kadar sözkonusu IP adresi için DHCP sunucunun diğer parametreleri tanımlanır.

# subnet 10.10.10.0

netmask 255.255.255.0

{

Ağdaki bilgisayarlara 10.10.10.10 ile 10.10.10.50 arasındaki ip adreslerini dağıtacağı için Range aralığını aşağıdaki gibi veriyoruz.

### range 10.10.10.10 10.10.10.50;

Yukarıda parantezi kapattık

}

Ayrıca yukarıdaki ayarların önlerindeki **#** işaretleri de kaldırıldı.

	Type	External Connection	Host Connection	DHCP	Subnet Address
VMnet0	Bridged	Auto-bridging	-	-	-
VMnet1	Host-only	-	Connected	Enabled	192.168.205.0
VMnet2	Custom	-	-	-	10.10.10.0
VMnet3	Custom	-	-	-	192.168.253.0
VMnet4	Custom	-	-	-	192.168.248.0
VMnet5	Custom	-	-	-	192.168.184.0
VMnet6	Custom	-	-	-	192.168.80.0
VMnet7	Custom	-	-	-	192.168.47.0
VMnet8	NAT	NAT	Connected	Enabled	192.168.67.0
-VMnet Inf	formation				
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Bridg	ed to: Auto	omatic		-	Automatic Sett
O NAT (	chared boot	s IR address with VMs)			NAT Setting
O NAT (	shared host	s iP address with vivis)			INAT Setung
O Host-	only (connec	t VMs internally in a private n	etwork)		
Conne Conne	ect a host vi	tual adapter to this network			
Host	virtual adap	ter name: VMware Network A	dapter VMnet2		
I lee le		rvice to distribute IP address	to VMs		DHCP Setting
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Subnet II	D· 10	10 10 0 Subpet ma	sk. 255 255 255 0		
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VMware ağ ayarları Edit menüsünden resimde gösterildiği şekilde yapıldı.

DHCP sunucumuzun adresi 10.10.10.2 olacağı için bunu elle vermemiz gerekiyor, bunun için Dhcp kurulu Ubuntumuzun ağ adresini elle veriyoruz.

Vygulamalar Yerler Sistem	Auto etho düzenleniyor Bağlantı adı: Auto etho     Z gtomatik bağlan Kablolu 802.1x Güvenliği IPv4 Ayarlan I Yöntem: Elle Adres Ağ maskesi Ağ 10.10.10.2 255.255.0 10 DNS sunucular: Arama etki alanlar: DHCP istemci ID:     Z Bu bağlantının tamamlanması için I	QPN Bağlantılar         Ağ Yönetimini Etkinleştir         QB Bilgi         Düzenle         IPV6 Ayarlan         Qr. Adresleme gerekir         Botalar
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Dhcp kurulumu ve ayarlarının yapımı tamamlandı, Ayarların aktif olabilmesi için Dhcp server **/etc/init.d/isc-dhcp-server restart** komutu ile yeniden başlatıldı.

Kurulmuş olan diğer ubuntunun ip adresini Dhcp Sunucu üzerinden alabilmesi için İpv4 ayarları aşağıdaki resimde gösterildiği gibi DHCP ye getirildi.

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🐗 Applications Places System 🥹 🛃 🦚 🖂 02:14 🔲 ubuntu 🙂 > \_\_\_\_ **Connection Information** 🗊 Wired 📩 Wireless 🞇 Mobile Termin **Active Network Connections** Name Las Auto eth0 (default) . General h0 Ubur Ethernet (eth0) Interface: Hardware Address: 00:0C:29:AD:1D:EE 4 Settings IPv6 Settings pcnet32 Driver: Speed: Unknown CP) -Security: None IPv4 Gateway Add IP Address: 10.10.10.11 Broadcast Address: 10.10.10.255 Delete Subnet Mask: 255.255.255.0 Default Route: 10.10.10.1 Primary DNS: 8.8.8.8 IPv6 Ignored ing for this connection to complete **Close** Routes... Available to all users X Cancel Save.. Editing Auto eth0 Connection Information 🛅 🔄 Network Connections 

Dhcp serverımıza verdiğimiz nitelikler kurduğumuz ikinci Ubuntuda sağlanmıştır..