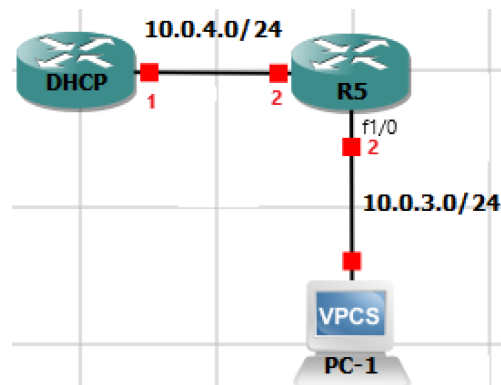


CISCO



(1) Cisco Basic Configuration

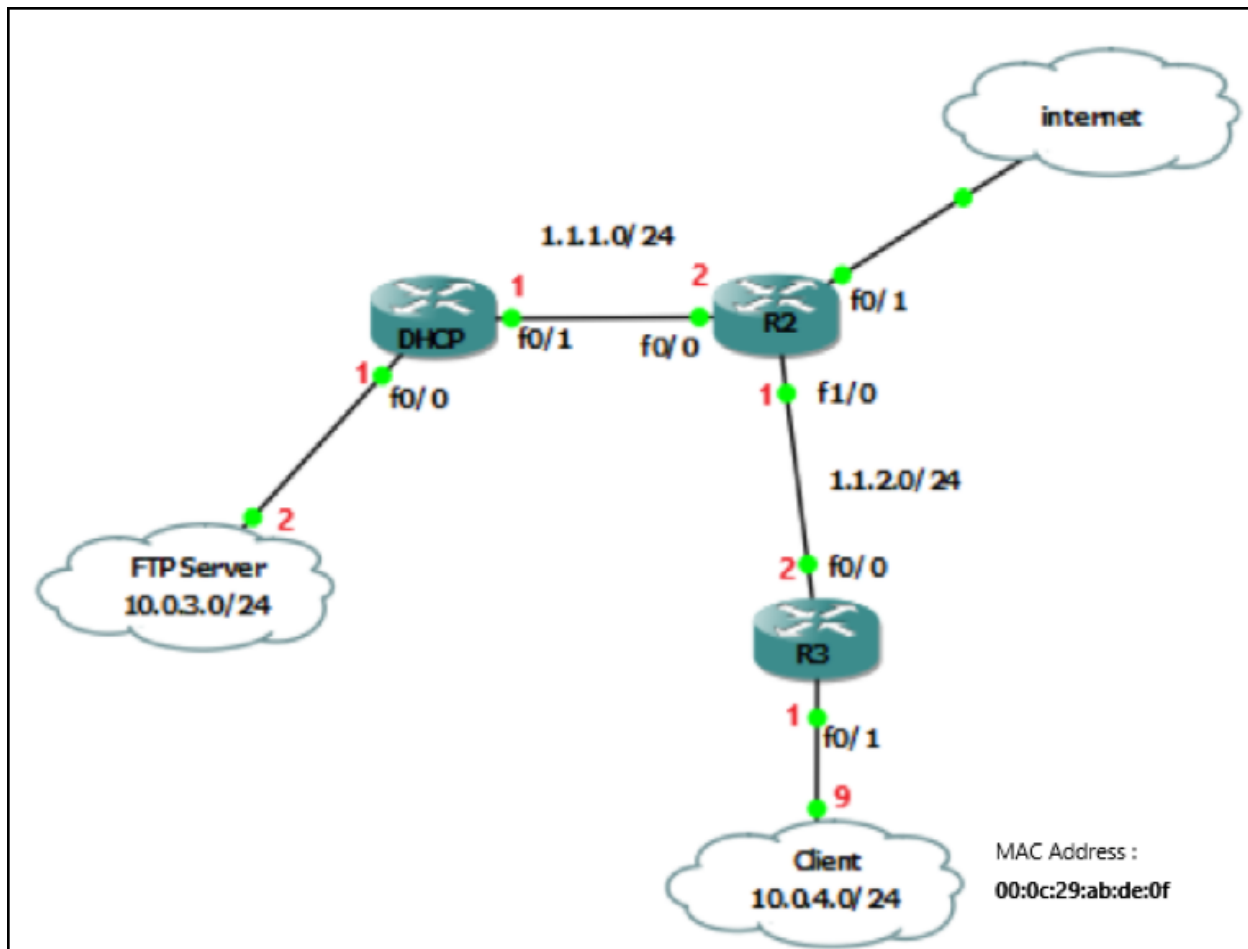
```
DHCP# conf t
DHCP(config)# int f0/0
DHCP(config-if)# ip add 10.0.3.1 255.255.255.0
DHCP(config-if)# no sh
DHCPconfig# ip dhcp pool TESTNETWORK
DHCP(dhcp-config)# network 10.0.3.0 255.255.255.0
DHCP(dhcp-config)# default-router 10.0.3.1
DHCP(dhcp-config)# dns-server 8.8.8.8
```



(2) Cisco DHCP Relay-Agent Configuration

```
DHCPconfig# ip dhcp pool TESTNETWORK2
DHCP(dhcp-config)# network 10.0.3.0 255.255.255.0
DHCP(dhcp-config)# default-router 10.0.3.1
DHCP(dhcp-config)# dns-server 8.8.8.8
DHCP(dhcp-config)# ip dhcp excluded-address
10.0.3.1 10.0.3.2
DHCP(config)# ip route 10.0.3.0 255.255.255.0
10.0.4.2
```

```
R5(config)# int f1/0
R5(config-if)# ip add 10.0.3.1 255.255.255.0
R5(config-if)# ip helper-address 10.0.4.1
R5(config-if)# no sh
R5(config-if)# int f0/0
R5(config-if)# ip add 10.0.4.2 255.255.255.0
R5(config-if)# no sh
```



(3) Cisco DHCP Database from remote FTP Server Configuration

```
FTPServer# apt install vsftpd
```

```
FTPServer# nano /etc/
```

```
listen=YES
```

```
anonymous_enable=NO
```

```
local_enable=YES
```

```
write_enable=YES
```

```
chroot_local_user=YES
```

```
user_sub_token=$USER
```

```
local_root=/home/$USER/
```

```
DHCP(config)# ip dhcp database ftp://serveradmin:serveradmin@10.0.3.2/dhcp.txt
```

```
Writing dhcp.txt !
```

```
DHCP(config)# no ip dhcp database ftp://serveradmin:serveradmin@10.0.3.2/dhcp.txt
```

```
FTPServer# nano dhcp.txt
```

```
*time* Mar 01 2002 07:49 AM
```

```
*version* 3
```

```
!!IP address Type Hardware address Lease expiration VRF
```

```
10.0.4.19 /24 id 0100.0c29.abde.0f Infinite
```

```
!!IP address Type Hardware address Interface-index
```

```
!!IP address Interface-index Lease expiration Server IP address Hardware address Vrf
```

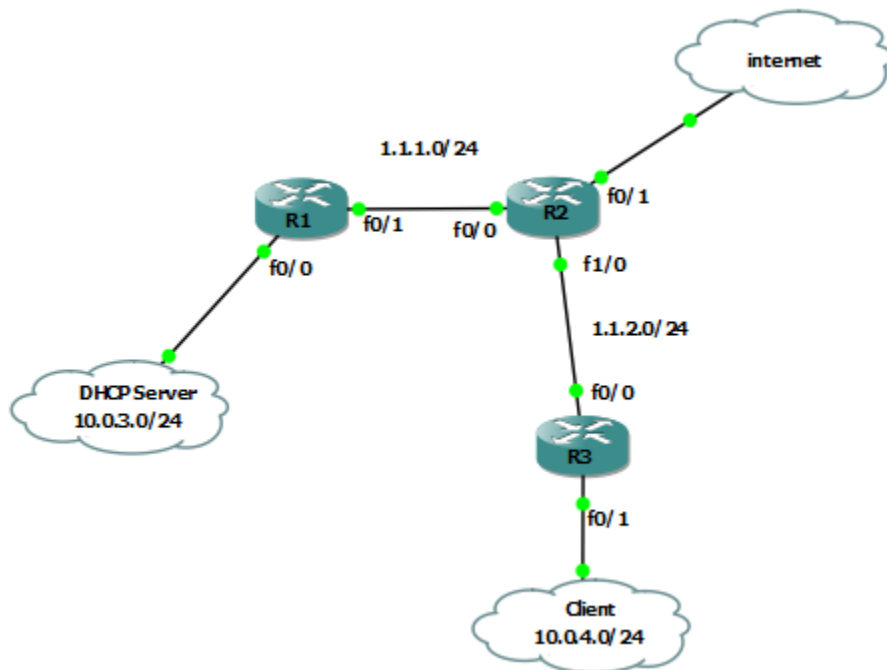
```
*end*
```

```
DHCP(config)# ip dhcp pool TESTNETWORK10.0.4.0
DHCP(dhcp-config)# origin file ftp://serveradmin:serveradmin@10.0.3.2/dhcp.txt
Loading dhcp.txt
[OK - 315/4096 bytes]
DHCP(dhcp-config)# default-router 10.0.4.1
DHCP(dhcp-config)# dns-server 8.8.8.8

R3(config)# int f0/1
R3(config-if)# ip helper-address 10.0.3.1
```

DEBIAN LINUX

UBUNTU 20.04.4 LTS



```
R3(config)# int f0/1
R3(config-if)# ip helper-address 10.0.3.2
```

```
UbuntuDHCPServer# apt install isc-dhcp-server
Internet Systems Consortium DHCP Server 4.4.1
UbuntuDHCPServer# nano /etc/dhcp/dhcpd.conf
```

WINDOWS

WINDOWS SERVER 2012R2

