HCIA---基础网络配置----DHCP动态主机配置实验

原创

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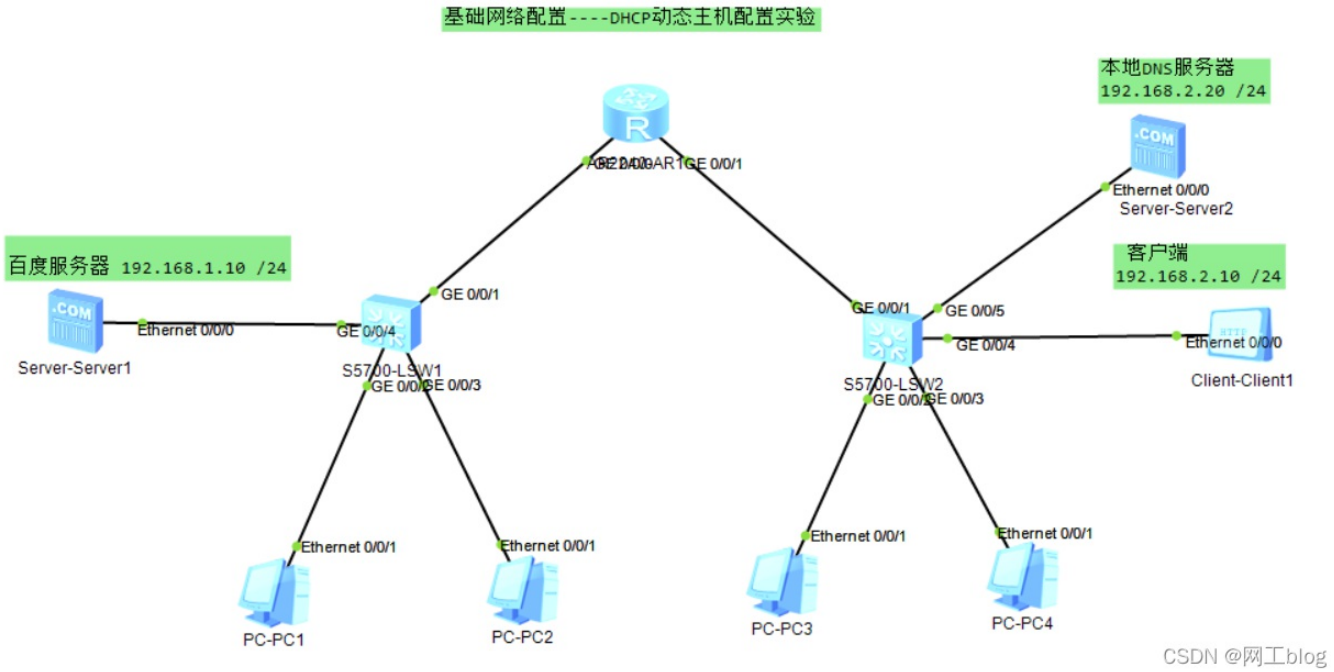
目录

前言

前三篇实验PC的IP地址都是我们自己敲命令配置上去的，本篇我们要通过DHCP动态主机配置协议来实现主机IP地址的自动获取，声明---本次实验拓扑是利用之前DNS服务器搭建的拓扑，那我们应该选谁来作为DHCP服务器呢，那下面就让们进行实验吧！

1.实验拓扑

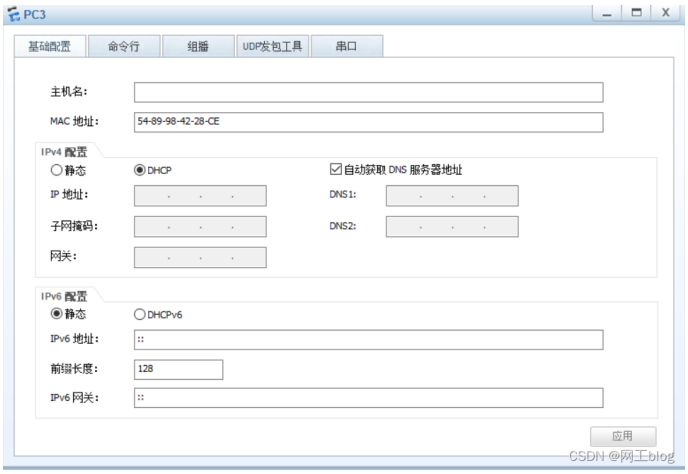


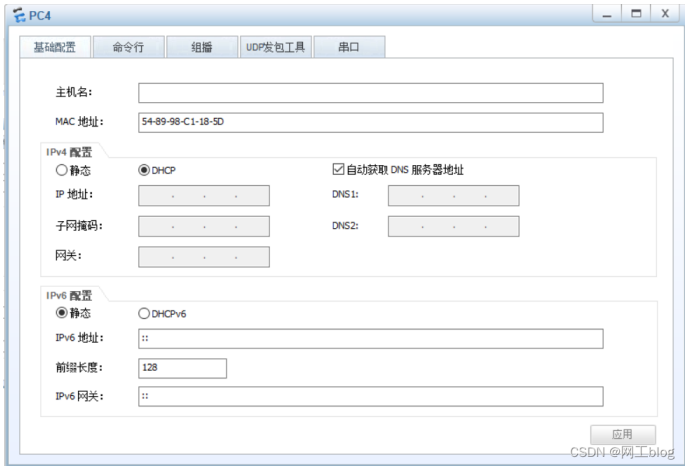
2.实验步骤

1.路由器AR1-----配置 （之前已经配置过网关了）

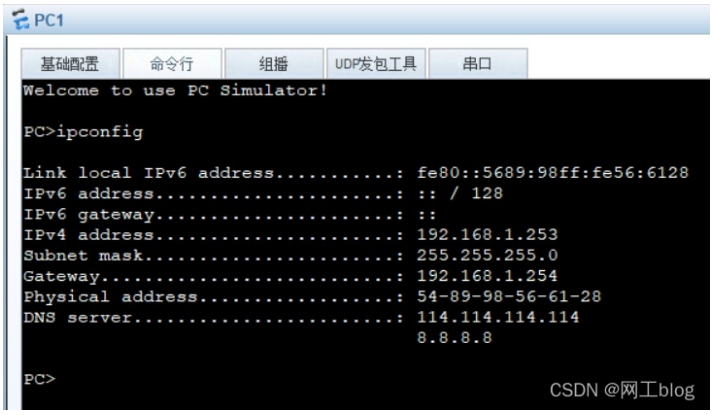
```
<Huawei>sys
Enter system view, return user view with Ctrl+Z.
[Huawei]dhcp en
[Huawei]dhcp enable
Info: The operation may take a few seconds. Please wait for a moment.done.
[Huawei]ip pool
[Huawei]ip pool aa
Info: It's successful to create an IP address pool.
[Huawei-ip-pool-aa]net 192.168.1.0 mask 24
[Huawei-ip-pool-aa]gat
[Huawei-ip-pool-aa]gateway-list 192.168.1.254
[Huawei-ip-pool-aa]dns
[Huawei-ip-pool-aa]dns-list 114.114.114.114 8.8.8.8
[Huawei-ip-pool-aa]q
[Huawei]ip pool
[Huawei]ip pool bb
Info: It's successful to create an IP address pool.
[Huawei-ip-pool-bb]net 192.168.2.0 mask 24
[Huawei-ip-pool-bb]gat
[Huawei-ip-pool-bb]gateway-list 192.168.2.254
[Huawei-ip-pool-bb]dns
[Huawei-ip-pool-bb]dns-list 114.114.114.114
[Huawei-ip-pool-bb]q
[Huawei]int g0/0/0
[Huawei-GigabitEthernet0/0/0]dhcp s
[Huawei-GigabitEthernet0/0/0]dhcp select g
[Huawei-GigabitEthernet0/0/0]dhcp select global
[Huawei-GigabitEthernet0/0/0]q
[Huawei]int g0/0/1
[Huawei-GigabitEthernet0/0/1]dhcp se
[Huawei-GigabitEthernet0/0/1]dhcp select g
[Huawei-GigabitEthernet0/0/1]dhcp select global
[Huawei-GigabitEthernet0/0/1]q
[Huawei]
```

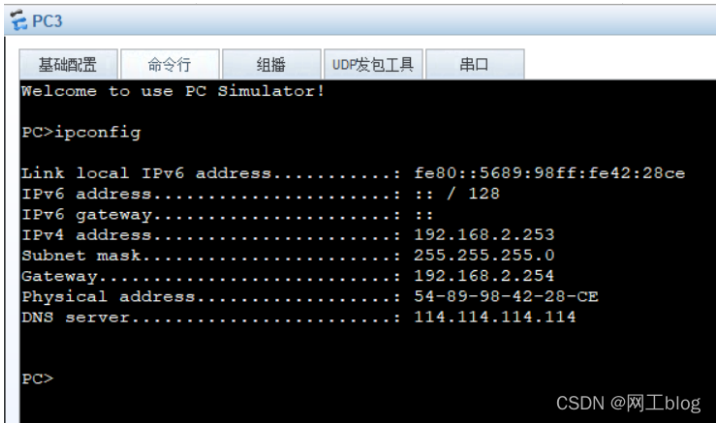

2.PC配置DHCP



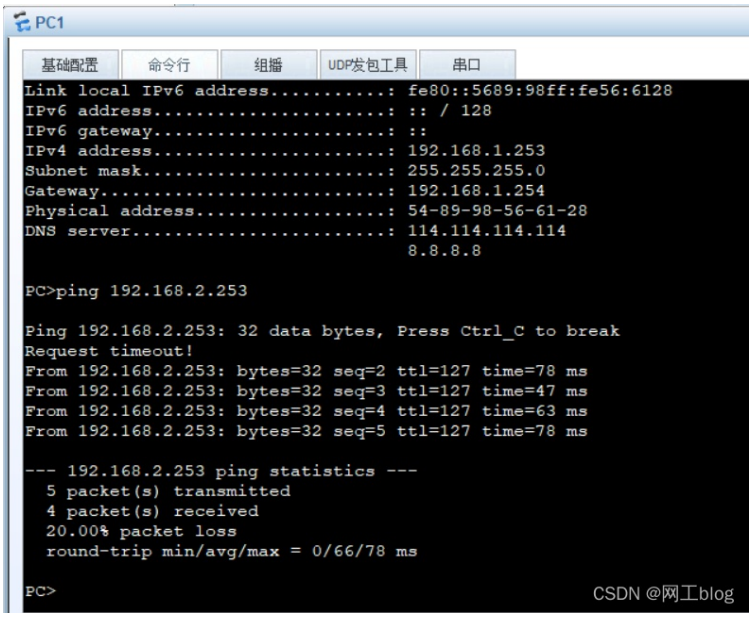


3.在PC上进行查询动态分配的IP地址





4.PING测试--- PC1---ping--PC3



3.总结

DHCP配置命令:

1，启动DHCP服务器

[aaa]dhcp enable

2，创建地址池

[aaa]ip pool aa

Info: It's successful to create an IP address pool.

[aaa-ip-pool-aa]

3，配置地址池

[aaa-ip-pool-aa]network 192.168.1.0 mask 24

[aaa-ip-pool-aa]gateway-list 192.168.1.1 --- 配置网关信息

[aaa-ip-pool-aa]dns-list 114.114.114.114 8.8.8.8 ---- 有配置DNS信 息

4，在接口选择全局配置

[aaa-GigabitEthernet0/0/0]dhcp select global

本次基础网络配置----DHCP动态主机配置实验，实现了通过DHCP动态获取IP地址，实验拓扑放到资源里了，我会在评论里放上链接，有需要的自行获取。