



### DHCP Server:

```

interface VLAN1
ip address 10.1.1.1 255.255.0.0
no ip directed-broadcast
!
vlan 1
!
!
!
ip dhcpd pool 1
network 10.1.0.0 255.255.0.0
range 10.1.1.10 10.1.1.20
!
ip dhcpd enable
!
!
Switch_config#
  
```

### S3512 (DHCP-Snooping):

```

Switch_config#sho run
Building configuration...
  
```

Current configuration:

```

!
!version 2.0.1L
  
```

```
service timestamps log date
service timestamps debug date
!
!
spanning-tree mode rstp
!
!
!
interface GigaEthernet0/1
  dhcp snooping trust
  arp inspection trust
  ip-source trust
!
interface GigaEthernet0/2
!
interface GigaEthernet0/3
!
interface GigaEthernet0/4
!
interface GigaEthernet0/5
!
interface GigaEthernet0/6
!
interface GigaEthernet0/7
!
interface GigaEthernet0/8
!
interface GigaEthernet0/9
!
interface GigaEthernet0/10
!
interface GigaEthernet0/11
!
interface GigaEthernet0/12
!
vlan 1
!
!
!
!
ip dhcp-relay snooping
ip dhcp-relay snooping vlan 1
ip arp inspection vlan 1
ip verify source vlan 1
```

```
ip source binding 00-e0-0f-a2-0d-df 10.1.1.10 interface GigaEthernet0/2
!  
!  
!
```

```
Switch_config#
```

```
Switch_config#sho version
```

```
BDCOM(tm) S3512 Software, Version 2.0.1L
```

```
Copyright by Shanghai Baud Data Communication CO. LTD.
```

```
Compiled: 2008-10-22 10:48:30 by SYS, Image text-base: 0x10000
```

```
ROM: System Bootstrap, Version 0.3.2, Serial num:S37000100
```

```
System image file is "switch.bin"
```

```
(RISC) processor with 131072K bytes of memory, 8192K bytes of flash
```

```
Base ethernet MAC Address: 00:e0:0f:57:31:07
```

```
Switch uptime is 0:16:02:34, The current time: 2008-11-29 9:16:50
```

```
Switch_config#
```

```
Switch_config#sho ip dhcp-relay snooping binding
```

Hardware Address	IP Address	remainder time	Type	VLAN	interface
00-e0-0f-a2-0d-df	10.1.1.10	infinite		MANUAL	1
GigaEthernet0/2					
00-e0-0f-61-f7-bf	10.1.1.11	85260		dDHCP_SN	1
GigaEthernet0/3					

```
Switch_config#
```

### Client1:

```
interface VLAN1
```

```
ip address 10.1.1.10 255.255.0.0
```

```
no ip directed-broadcast
```

```
!
```

```
vlan 1
```

```
!
```

```
!
```

**Client2:**

```
interface VLAN1
 ip address dhcp
 no ip directed-broadcast
```

!

```
vlan 1
```

!

!

!

!

```
Switch_config#sho ip interface brief
```

Interface	IP-Address	Method	Protocol	Status
VLAN1	10.1.1.11	dhcp	up	

```
Switch_config#
```