



IP Address Table

Devices	Port	IP address	Subnet Mask	Default Gateway
Gringots	G0/0	172.0.124.1	255.255.255.0	N/A
	S0/0/0	172.0.125.14	255.255.255.252	
	S0/0/1	172.0.125.30	255.255.255.252	
	S0/1/0	172.0.125.42	255.255.255.252	
	S0/1/1	172.0.125.53	255.255.255.252	
	S0/2/0	172.0.125.57	255.255.255.252	
	G0/0	172.0.96.1	255.255.240.0	N/A

Diagon Alley	S0/0/0	172.0.125.10	255.255.255.252	
	S0/0/1	172.0.125.34	255.255.255.252	
	S0/1/0	172.0.125.46	255.255.255.252	
	S0/1/1	172.0.125.58	255.255.255.252	
	S0/2/0	172.0.125.62	255.255.255.252	
Platform	G0/0	172.0.112.1	255.255.248.0	N/A
	S0/0/0	172.0.125.6	255.255.255.252	
	S0/0/1	172.0.125.38	255.255.255.252	
	S0/1/0	172.0.125.50	255.255.255.252	
	S0/1/1	172.0.125.54	255.255.255.252	
	S0/2/0	172.0.125.61	255.255.255.252	
Ministry of Magic	G0/0	172.0.0.1	255.255.224.0	N/A
	S0/0/0	172.0.125.2	255.255.255.252	
	S0/0/1	172.20.125.21	255.255.0.0	
	S0/1/0	172.0.125.17	255.255.255.252	
	S0/1/1	172.0.125.13	255.255.255.252	
	S0/2/0	172.0.125.9	255.255.255.252	
	S0/2/1	172.0.125.5	255.255.255.252	
	S0/3/0	172.0.125.70	255.255.255.252	
Dementors lounge	G0/0	172.0.120.1	255.255.252.0	N/A
	S0/0/0	172.0.125.22	255.255.255.252	
	S0/0/1	172.0.125.25	255.255.255.252	
	S0/1/0	172.0.125.29	255.255.255.252	
	S0/1/1	172.0.125.33	255.255.255.252	
	S0/2/0	172.0.125.37	255.255.255.252	
Other shops	G0/0	172.0.64.1	255.255.224.0	N/A
	S0/0/0	172.0.125.18	255.255.255.252	
	S0/0/1	172.0.125.26	255.255.255.252	
	S0/1/0	172.0.125.41	255.255.255.252	
	S0/1/1	172.0.125.45	255.255.255.252	
	S0/2/0	172.0.125.49	255.255.255.252	
	S0/2/1	172.0.125.65	255.255.255.252	
PC0	F0	172.0.120.3	255.255.252.0	172.0.120.1
PC1	F0	172.0.120.2	255.255.252.0	172.0.120.1
PC2	F0	172.0.64.2	255.255.224.0	172.0.64.1

PC3	F0	172.0.64.3	255.255.224.0	172.0.64.1
PC4	F0	172.0.124.3	255.255.255.0	172.0.124.1
PC5	F0	172.0.124.2	255.255.255.0	172.0.124.1
PC6	F0	172.0.96.2	255.255.240.0	172.0.96.1
PC7	F0	172.0.96.3	255.255.240.0	172.0.96.1
PC8	F0	172.0.112.2	255.255.248.0	172.0.112.1
PC9	F0	172.0.112.3	255.255.248.0	172.0.112.1
Web server	F0	172.0.125.2	255.255.255.0	172.0.32.1
Laptop0	F0	172.0.0.2	255.255.224.0	172.0.0.1
Printer0	F0	172.0.0.3	255.255.224.0	172.0.0.1

Network Address Table

Network	Network address	Subnet masks
Topology	172.0.0.0	255.255.128.0
Ministry of Magic	172.0.0.0	255.255.224.0
Hogwart school of wizards	172.0.32.0	255.255.224.0
Other shops	172.0.64.0	255.255.224.0
Diagon Alley	172.0.96.0	255.255.240.0
Platform	172.0.112.0	255.255.248.0
Dementors Lounge	172.0.120.0	255.255.252.0
Gringots	172.0.124.0	255.255.255.0
Ministry of magic--hogwart	172.0.125.0	255.255.255.252
Ministry of magic--platform	172.0.125.4	255.255.255.252
Ministry of magic—Diagon Alley	172.0.125.8	255.255.255.252
Ministry of magic--Gringots	172.0.125.12	255.255.255.252
Ministry of magic--othershop	172.0.125.16	255.255.255.252
Ministry of magic—Dementors Lounge	172.0.125.20	255.255.255.252
Dementors Lounge--Othershops	172.0.125.24	255.255.255.252
Dementors Lounge--Gringots	172.0.125.28	255.255.255.252
Dementors Lounge—Diagon Alley	172.0.125.32	255.255.255.252
Dementors Lounge--Platform	172.0.125.36	255.255.255.252
Othershops--Gringots	172.0.125.40	255.255.255.252
Othershops—Diagon Alley	172.0.125.44	255.255.255.252

Othershops--Platform	172.0.125.48	255.255.255.252
Gringots--Platform	172.0.125.52	255.255.255.252
Gringots—Diagon Alley	172.0.125.56	255.255.255.252
Diagon Alley--Platform	172.0.125.60	255.255.255.252
Othershop--Rfloat	172.0.125.64	255.255.255.252
Rfloat—Ministry of magic	172.0.125.68	255.255.255.252

The Configurations of All Routers

Gringots

router#conf t

```

interface GigabitEthernet0/0    ip
address 172.0.124.1 255.255.255.0
!
interface Serial0/0/0          ip   address
172.0.125.14 255.255.255.252
!
interface Serial0/0/1          ip   address
172.0.125.30 255.255.255.252
!
interface Serial0/1/0          ip   address
172.0.125.42 255.255.255.252
!
interface Serial0/1/1          ip   address
172.0.125.53 255.255.255.252
!
interface Serial0/2/0          ip   address
172.0.125.57 255.255.255.252
!
```

```

Router(config)#ip route 172.0.64.0 255.255.224.0 172.0.125.41 21
Router(config)#ip route 172.0.0.0 255.255.224.0 172.0.125.13 89
Router(config)#ip route 172.0.112.0 255.255.248.0 172.0.125.54 46
Router(config)#ip route 172.0.96.0 255.255.240.0 172.0.125.58 15
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 172.0.125.28
Router(config-router)#network 172.0.124.0
Router(config-router)#exit
Router(config)#exit
```

```
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/0
Router(config)#
Router(config)#exit
```

Diagon Alley

```
Router#conf t
```

```
interface GigabitEthernet0/0 ip
address 172.0.96.1 255.255.240.0
!
```

```
interface Serial0/0/0 ip address
172.0.125.10 255.255.255.252
!
```

```
interface Serial0/0/1 ip address
172.0.125.34 255.255.255.252
!
```

```
interface Serial0/1/0 ip address
172.0.125.46 255.255.255.252
!
```

```
interface Serial0/1/1 ip address
172.0.125.58 255.255.255.252 clock rate
2000000
!
```

```
interface Serial0/2/0 ip address
172.0.125.62 255.255.255.252
!
```

```
Router(config)#ip route 172.0.124.0 255.255.255.0 172.0.125.56 15
Router(config)#ip route 172.0.64.0 255.255.224.0 172.0.125.45 1
Router(config)#ip route 172.0.120.0 255.255.252.0 172.0.125.33 32
Router(config)#ip route 172.0.0.0 255.255.224.0 172.0.125.5
Router(config)#ip route 172.0.112.0 255.255.248.0 172.0.125.61 31
Router(config)#router rip
```

```
Router(config-router)#version 2
Router(config-router)#network 172.0.96.0
Router(config-router)#network 172.0.125.8
Router(config-router)#exit
Router(config)#exit

Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/0
Router(config)#exit
```

Platform

```
router#conf t
```

```
interface GigabitEthernet0/0    ip
address 172.0.112.1 255.255.248.0
!
interface Serial0/0/0    ip    address
172.0.125.6 255.255.255.252
!
interface Serial0/0/1    ip    address
172.0.125.38 255.255.255.252
!
interface Serial0/1/0    ip    address
172.0.125.50 255.255.255.252
!
interface Serial0/1/1
ip address 172.0.125.54 255.255.255.252
!
interface Serial0/2/0
ip address 172.0.125.61 255.255.255.252

!
```

```
Router(config)#ip route 172.0.96.0 255.255.240.0 172.0.125.62 31
Router(config)#ip route 172.0.124.0 255.255.255.0 172.0.125.53 46
Router(config)#ip route 172.0.64.0 255.255.224.0 172.0.125.45 32
Router(config)#ip route 172.0.120.0 255.255.252.0 172.0.125.37 65
Router(config)#ip route 172.0.0.0 255.255.224.0 172.0.125.5 98
```

```
Router(config-router)#exit
Router(config)#exit
```

```
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0
Router(config)#exit
```

Ministry of Magic

```
router#conf t
```

```
interface GigabitEthernet0/0
ip address 172.0.0.1 255.255.224.0
!
interface Serial0/0/0 ip address
172.0.125.2 255.255.255.252
!
interface Serial0/0/1
ip address 172.20.125.21 255.255.0.0
!
interface Serial0/1/0
ip address 172.0.125.17 255.255.255.252
!
interface Serial0/1/1
ip address 172.0.125.13 255.255.255.252
!
interface Serial0/2/0
ip address 172.0.125.9 255.255.255.252
!
interface Serial0/2/1
ip address 172.0.125.5 255.255.255.252
!
interface Serial0/3/0
ip address 172.0.125.70 255.255.255.252
```

!

```
Router(config)#ip route 172.0.112.0 255.255.248.0 172.0.125.6 98
Router(config)#ip route 172.0.124.0 255.255.255.0 172.0.125.14 89
Router(config)#ip route 172.0.64.0 255.255.224.0 172.0.125.18 23
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 172.0.125.8 Router(config-router)#network
172.0.96.0
Router(config-router)#network 172.0.0.0
Router(config-router)#network 172.0.125.20
Router(config-router)#exit
Router(config)#exit
```

```
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/3/0
Router(config)#exit
```

Dementors lounge

router#conf t

```
interface GigabitEthernet0/0
ip address 172.0.120.1 255.255.252.0
!
interface Serial0/0/0 ip address
172.0.125.22 255.255.255.252
!
interface Serial0/0/1 ip address
172.0.125.25 255.255.255.252
!
interface Serial0/1/0 ip address
172.0.125.29 255.255.255.252
```



```
!  
interface Serial0/1/1 ip address  
172.0.125.33 255.255.255.252
```

```
!  
interface Serial0/2/0 ip address  
172.0.125.37 255.255.255.252
```

```
!
```

```
Router(config)#ip route 172.0.0.0 255.255.224.0 172.0.125.21  
Router(config)#ip route 172.0.112.0 255.255.248.0 172.0.125.38 65  
Router(config)#ip route 172.0.96.0 255.255.240.0 172.0.125.34 32  
Router(config)#ip route 172.0.64.0 255.255.224.0 172.0.125.26 5  
Router(config)#router rip  
Router(config-router)#version 2  
Router(config-router)#network 172.0.120.0  
Router(config-router)#network 172.0.125.20  
Router(config-router)#network 172.0.120.0  
Router(config-router)#network 172.0.125.40  
Router(config-router)#exit  
Router(config)#exit
```

```
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0  
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/1  
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/0  
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/1  
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/0  
Router(config)#exit
```

Other Shop

```
router#conf t
```

```
interface GigabitEthernet0/0  
ip address 172.0.64.1 255.255.224.0  
!
```

```
interface Serial0/0/0    ip    address
172.0.125.18 255.255.255.252
!
interface Serial0/0/1    ip    address
172.0.125.26 255.255.255.252
!
interface Serial0/1/0
ip address 172.0.125.41 255.255.255.252
!
interface Serial0/1/1
ip address 172.0.125.45 255.255.255.252
!
interface Serial0/2/0
ip address 172.0.125.49 255.255.255.252
!
interface Serial0/2/1    ip    address
172.0.125.65 255.255.255.252
!
```

```
Router(config)#ip route 172.0.124.0 255.255.255.0 172.0.125.42 21
Router(config)#ip route 172.0.96.0 255.255.240.0 172.0.125.46 1
Router(config)#ip route 172.0.112.0 255.255.248.0 172.0.125.38 32
Router(config)#ip route 172.0.0.0 255.255.224.0 172.0.125.17 23
Router(config)#ip route 172.0.120.0 255.255.252.0 172.0.125.25 5
Router(config)#exit
```

```
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/0/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/0
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/1
Router(config)#ip route 0.0.0.0 0.0.0.0 s0/1/0
Router(config)#exit
```