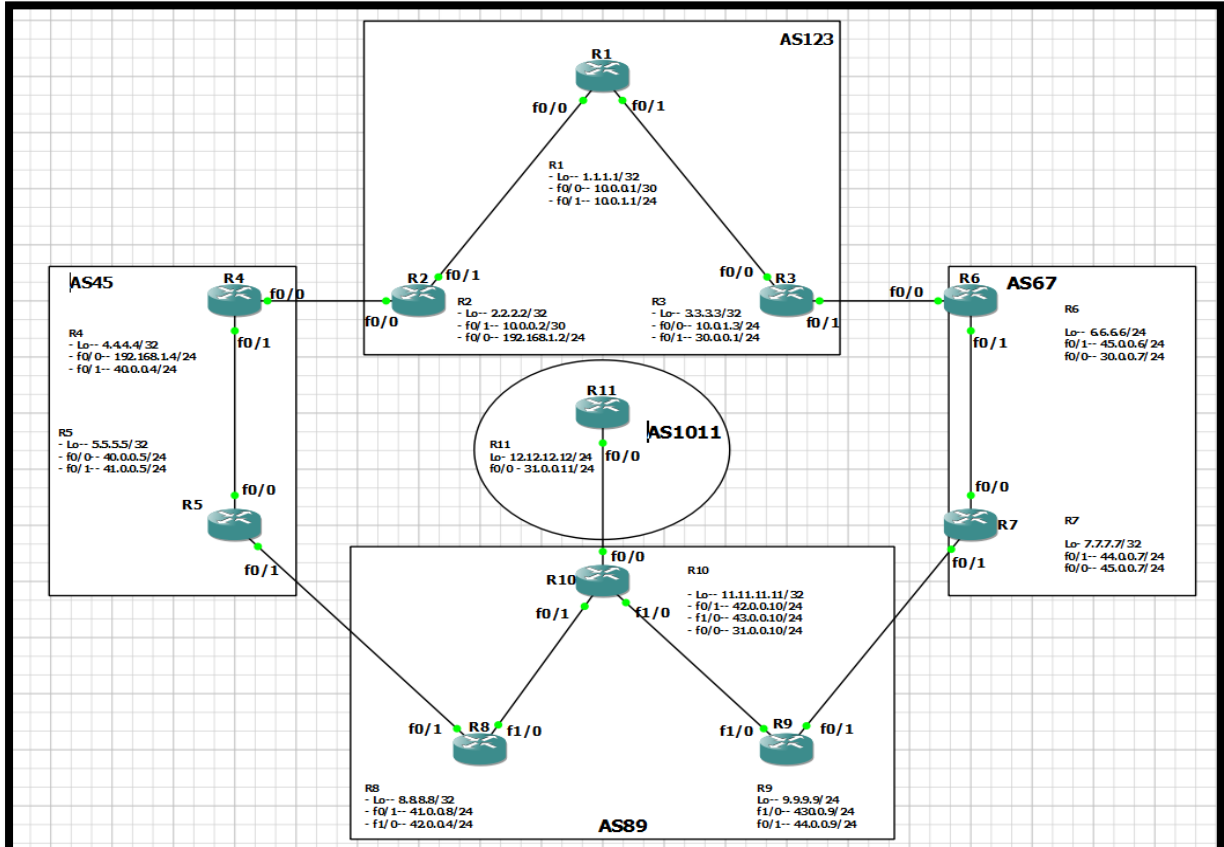


# CONFIGURATION OF BGP LAB

## TOPOLOGY:



## Node Configuration:

### AS123

R1	R2	R3
- Lo-- 1.1.1.1/32	- Lo-- 2.2.2.2/32	- Lo-- 3.3.3.3/32
- f0/0-- 10.0.0.1/30	- f0/1-- 10.0.0.2/30	- f0/0-- 10.0.1.3/24
- f0/1-- 10.0.1.1/24	- f0/0-- 192.168.1.2/24	- f0/1-- 30.0.0.1/24

### **AS45**

R4 - Lo-- 4.4.4.4/32 - f0/0-- 192.168.1.4/24 - f0/1-- 40.0.0.4/24	R5 - Lo-- 5.5.5.5/32 - f0/0-- 40.0.0.5/24 - f0/1-- 41.0.0.5/24
--	---

### **AS89**

R8 - Lo-- 8.8.8.8/32 - f0/1-- 41.0.0.8/24 - f1/0-- 42.0.0.4/24	R10 - Lo-- 11.11.11.11/32 - f0/1-- 42.0.0.10/24 - f1/0-- 43.0.0.10/24 - f0/0 - 31.0.0.10/24	R9 Lo-- 9.9.9.9/24 f1/0-- 430.0.9/24 f0/1-- 44.0.0.9/24
---	---	--

### **AS67**

R7 Lo- 7.7.7.7/32 f0/1-- 44.0.0.7/24 f0/0-- 45.0.0.7/24	R6 Lo-- 6.6.6.6/24 f0/1-- 45.0.0.6/24 f0/0-- 30.0.0.7/24
--	---

### **AS1011**

R11 Lo- 12.12.12.12/24. f0/0 - 31.0.0.11/24
---

### Terminal configuration of R1:

```
!  
Conf term  
!  
int lo 1  
ip add 1.1.1.1 255.255.255.255  
int f0/0  
ip add 10.0.0.1 255.255.255.252  
no shut  
int f0/1  
ip add 10.0.1.1 255.255.255.0  
no shut  
exit  
exit  
write
```

```
R1#sh ip int br | ex un
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	10.0.0.1	YES	manual	up	up
FastEthernet0/1	10.0.1.1	YES	manual	up	up
Loopback1	1.1.1.1	YES	manual	up	up

### Terminal configuration of R2:

```
!  
Conf term  
!  
int lo 2  
ip add 2.2.2.2 255.255.255.255  
int f0/1  
ip add 10.0.0.2 255.255.255.253  
no shut  
int f0/0  
ip add 192.168.1.2 255.255.255.0  
no shut  
exit  
exit  
write
```

```
R2#sh ip int br | ex un
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	192.168.1.2	YES	manual	up	up
Loopback2	2.2.2.2	YES	manual	up	up

### Terminal configuration of R3:

```
!  
Conf term  
!  
int lo 3  
ip add 3.3.3.3 255.255.255.255  
!  
int f0/0  
ip add 10.0.1.3 255.255.255.0  
no shut  
int f0/1  
ip add 30.0.0.1 255.255.255.0  
no shut  
exit  
exit  
write
```

```
R3#sh ip int br | ex un  
Interface      IP-Address      OK? Method Status      Protocol  
FastEthernet0/0 10.0.1.3        YES manual up          up  
FastEthernet0/1 30.0.0.1        YES manual up          up  
Loopback3       3.3.3.3         YES manual up          up
```

### Terminal configuration of R4:

```
!  
Conf term  
!  
int lo 4  
ip add 4.4.4.4 255.255.255.255  
!  
int f0/0  
ip add 192.168.1.4 255.255.255.0  
no shut  
!  
int f0/1  
ip add 40.0.0.4 255.255.255.0  
no shut  
exit  
exit  
write
```

```
R4#sh ip int br | ex un
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	192.168.1.4	YES	manual	up	up
FastEthernet0/1	40.0.0.4	YES	manual	up	up
Loopback4	4.4.4.4	YES	manual	up	up

### Terminal configuration of R5:

```
!
Conf term
!
int lo 5
ip add 5.5.5.5 255.255.255.255
!
Int f0/0
Ip add 40.0.0.5 255.255.255.0
no shut
!
Int f0/1
Ip add 41.0.0.5 255.255.255.0
no shut
!
Exit
Exit
Write
```

```
R5#sh ip int br | ex un
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	40.0.0.5	YES	manual	up	up
FastEthernet0/1	41.0.0.5	YES	manual	up	up
Loopback5	5.5.5.5	YES	manual	up	up

### Terminal configuration of R6:

```
!
Conf term
!
Int lo 6
Ip add 6.6.6.6 255.255.255.0
!
Int f0/1
Ip add 45.0.0.6 255.255.255.0
No shut
```

```
!  
Int f0/0  
Ip add 30.0.0.7 255.255.255.0  
No shut  
!  
Exit  
Exit  
Write
```

```
R6#sh ip int br | ex un
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	30.0.0.7	YES	manual	up	up
FastEthernet0/1	45.0.0.6	YES	manual	up	up
Loopback6	6.6.6.6	YES	manual	up	up

### Terminal configuration of R7:

```
!  
Conf term  
!  
Int lo 7  
Ip add 7.7.7.7 255.255.255.255  
Int f0/1  
Ip add 44.0.0.7 255.255.255.0  
No shut  
!  
Int f0/0  
Ip add 45.0.0.7 255.255.255.0  
No shut  
!  
Exit  
Exit  
Write
```

```
R7#sh ip int br | ex un
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	45.0.0.7	YES	manual	up	up
FastEthernet0/1	44.0.0.7	YES	manual	up	up
Loopback7	7.7.7.7	YES	manual	up	up

### Terminal configuration of R8:

```
!  
Conf term  
!  
Int lo 8  
Ip add 8.8.8.8 255.255.255.255  
Int f0/1  
Ip add 41.0.0.8 255.255.255.0  
No shut  
!  
Int f1/0  
Ip add 42.0.0.4 255.255.255.0  
No shut  
!  
Exit  
Exit  
Write
```

```
R8#sh ip int br | ex un  
Interface          IP-Address      OK? Method Status  Protocol  
FastEthernet0/1    41.0.0.8        YES manual up      up  
FastEthernet1/0    42.0.0.4        YES manual up      up  
Loopback8          8.8.8.8         YES manual up      up
```

### Terminal configuration of R9:

```
!  
Conf term  
!  
Int lo 9  
Ip add 9.9.9.9 255.255.255.0  
Int f1/0  
ip add 43.0.0.9 255.255.255.0  
No shut  
Int f0/1  
Ip add 44.0.0.9 255.255.255.0  
No shut  
Exit  
Exit  
Write
```

```
R9#sh ip int br | ex un
Interface      IP-Address      OK? Method Status      Protocol
FastEthernet0/1 44.0.0.9        YES manual up          up
FastEthernet1/0 43.0.0.9        YES manual up          up
Loopback9       9.9.9.9         YES manual up          up
```

### Terminal configuration of R10:

```
!
Conf term
!
Int lo 10
Ip add 11.11.11.11 255.255.255.255
Int f0/1
Ip add 42.0.0.10 255.255.255.0
No shut
!
Int f1/0
Ip add 43.0.0.10 255.255.255.0
No shut
!
Int f0/0
Ip add 31.0.0.10 255.255.255.0
No shut
Exit
Exit
Write
```

```
R10#sh ip int br | ex un
Interface      IP-Address      OK? Method Status      Protocol
FastEthernet0/0 31.0.0.10       YES manual up          up
FastEthernet0/1 42.0.0.10       YES manual up          up
FastEthernet1/0 43.0.0.10       YES manual up          up
Loopback10     11.11.11.11     YES manual up          up
```

### Terminal configuration of R11:

```
!
Conf term
!
Int lo 11
Ip add 12.12.12.12 255.255.255.0
```



!

Int f0/0

Ip add 31.0.0.11 255.255.255.0

No shut

Exit

Exit

Write

```
R11#sh ip int br | ex un
Interface          IP-Address      OK? Method Status      Protocol
FastEthernet0/0    31.0.0.11       YES manual up          up
Loopback11         12.12.12.12     YES manual up          up
```