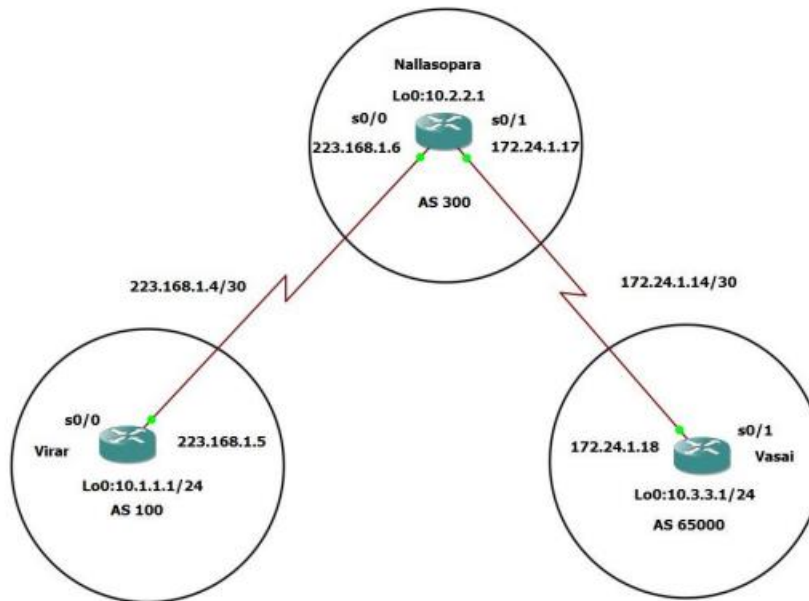2.using AS_PATH ATTRIBUTE

Step 1: Prepare the routers for the lab. Cable the network as shown in the topology diagram. Erase the Startup configuration and reload each router to clear previous configurations.

Step 2: Configure the hostname and interface addresses.

 a. You can copy and paste the following configurations into your routers to begin
    Router R1(hostname Virar)
     Virar(config)# interface Loopback 0
    Virar(config-if) #ip address 10.1.1.1 255.255.255.255
    #
     Virar(config-if) #exit
    Virar(config-if) #int s0/0
    Virar(config-if) #ip address 223.168.1.5 255.255.255.252
    Virar(config-if) #no shutdown
    Virar(config-if) #end
     Virar#

    Router R2(hostname Nallasopara)
    Nallasopra(config) #interface Loopback 0
    Nallasopara(config-if) #ip address 10.2.2.1 255.255.255.0
    Nallasopara(config-if) #exit
    Nallasopara(config-if) #int s0/0
     Nallasopara(config-if) #ip address 223.168.1.6 255.255.255.252
    Nallasopara(config-if) #no shutdown
    Nallasopara(config-if) #exit

Nallasopara(config-if) #int s0/1
Nallasopara(config-if) #ip address 172.24.1.17 255.255.255.252
Nallasopara(config-if) #no shutdown
Nallasopara(config-if) #end
Nallasopara#

Router 3(hostname Vasai)
Vasai(config)# interface Loopback 0
Vasai(config-if) #ip address 10.3.3.1 255.255.255.0
Vasai(config-if) #exit
Vasai(config-if) #int s0/1
Vasai(config-if) #ip address 172.24.1.18 255.255.255.252
Vasai(config-if) #no shutdown
Vasai(config-if) #end
Vasai#

b. Use Ping to test the Connectivity between the directly connected routers

Virar(config)# router bgp 100
Virar(config-router) #neighbor 223.168.1.6
remote-as 300 Virar(config-router) #network 10.1.1.0 mask 255.255.255.0
Virar(config-router) #

Nallasopara(config)# router bgp 300
Nallasopara(config-router) #neighbor 223.168.1.5 remote-as 100
Nallasopara(config-router) #neighbor 172.24.1.18 remote-as 65000
Nallasopara(config-router) #10.20.2.0 mask 255.255.255.0

Vasai(config) #router bgp 65000
Vasai(config-router) #neighbor 172.24.1.17 remote-as 300
Vasai(config-router) #network 10.3.3.0 mask 255.255.255.0

Nallasopara# show ip bgp neighbors

Virar# Show ip route

Virar# show ip bgp

Nallasopara(config) #ip as_path access-list 1 deny ^100$
Nallasopara(config) #ip as-path access-list 1 permit .*

Nallasopara(config) #router bgp 300
Nallasopara(config-router) #neighbor 223.168.1.5 remove-private-as

Virar# show ip route

Nallasopara# show ip bgp regexp ^100$