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TRAINING, LLC**

Vizle



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```
R1#  
R1>unl s bgp  
R1>bgp 65100  
R1>neighbor-neighbor-changes  
R1>network 1.1.1.0 mask 255.255.255.0  
R1>neighbor 10.1.1.2 remote-as 65200
```

```
R1#conf t  
Enter configuration commands, one per line. End with CNTL/Z.  
R1(config)#no router bgp 65100  
R1(config)#  
*Jul 1 19:54:27.124: %BGP-5-ADJCHANGE: neighbor 10.1.1.2 Down Neighbor deleted  
*Jul 1 19:54:27.125: %BGP_SESSION-5-ADJCHANGE: neighbor 10.1.1.2 IPv4 Unicast topology base removed from session Neighbor deleted  
R1(config)#router bgp 100  
R1(config-router)#neigh  
R1(config-router)#neighbor 10.1.1.2 remote  
R1(config-router)#neighbor 10.1.1.2 remote-as 65200  
R1(config-router)#  
*Jul 1 19:55:03.667: %BGP-3-NOTIFICATION: received from neighbor 10.1.1.2 passive 2/2 (peer in wrong AS) 2 bytes 0064  
R1(config-router)#  
*Jul 1 19:55:03.667: %BGP-5-NBR_RESET: Neighbor 10.1.1.2 passive reset (BGP Notification received)  
*Jul 1 19:55:03.668: %BGP-5-ADJCHANGE: neighbor 10.1.1.2 passive Down BGP Notification received  
*Jul 1 19:55:03.668: %BGP_SESSION-5-ADJCHANGE: neighbor 10.1.1.2 IPv4 Unicast topology base removed from session BGP Notification received  
*Jul 1 19:55:04.380: %BGP-3-NOTIFICATION: received from neighbor 10.1.1.2 active 2/2 (peer in wrong AS) 2 bytes 0064  
R1(config-router)#  
*Jul 1 19:55:04.381: %BGP-5-NBR_RESET: Neighbor 10.1.1.2 active reset (BGP Notification received)  
*Jul 1 19:55:04.382: %BGP-5-ADJCHANGE: neighbor 10.1.1.2 active Down BGP Notification received  
*Jul 1 19:55:04.382: %BGP_SESSION-5-ADJCHANGE: neighbor 10.1.1.2 IPv4 Unicast topology base removed from session BGP Notification received  
R1(config-router)#  
*Jul 1 19:55:18.709: %BGP-3-NOTIFICATION: received from neighbor 10.1.1.2 active 2/2 (peer in wrong AS) 2 bytes 0064  
R1(config-router)#  
*Jul 1 19:55:18.710: %BGP-5-NBR_RESET: Neighbor 10.1.1.2 active reset (BGP Notification received)  
*Jul 1 19:55:18.711: %BGP-5-ADJCHANGE: neighbor 10.1.1.2 active Down BGP Notification received  
*Jul 1 19:55:18.711: %BGP_SESSION-5-ADJCHANGE: neighbor 10.1.1.2 IPv4
```





R2# sh ip bgp

```
BGP table version is 9, local router ID is 2.2.2.2
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
               x best-external, a additional-path, c RIB-compressed,
               t secondary path,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found
```

Network	Next Hop	Metric	LocPrf	Weight	Path
*> 1.1.1.0/24	10.1.1.1	0		0	65100 100 i
*> 2.2.2.0/24	0.0.0.0	0		32768	i

R2#

```
*Jul 1 19:58:31.352: %BGP-5-NBR_RESET: Neighbor 10.1.1.1 reset (Peer closed the session)
*Jul 1 19:58:31.362: %BGP-5-ADJCHANGE: neighbor 10.1.1.1 Down Peer closed the session
*Jul 1 19:58:31.362: %BGP_SESSION-5-ADJCHANGE: neighbor 10.1.1.1 IPv4 Unicast topology base removed from session Peer closed the session
*Jul 1 19:58:31.804: %BGP-5-ADJCHANGE: neighbor 10.1.1.1 Up
```

R2#sh ip bgp

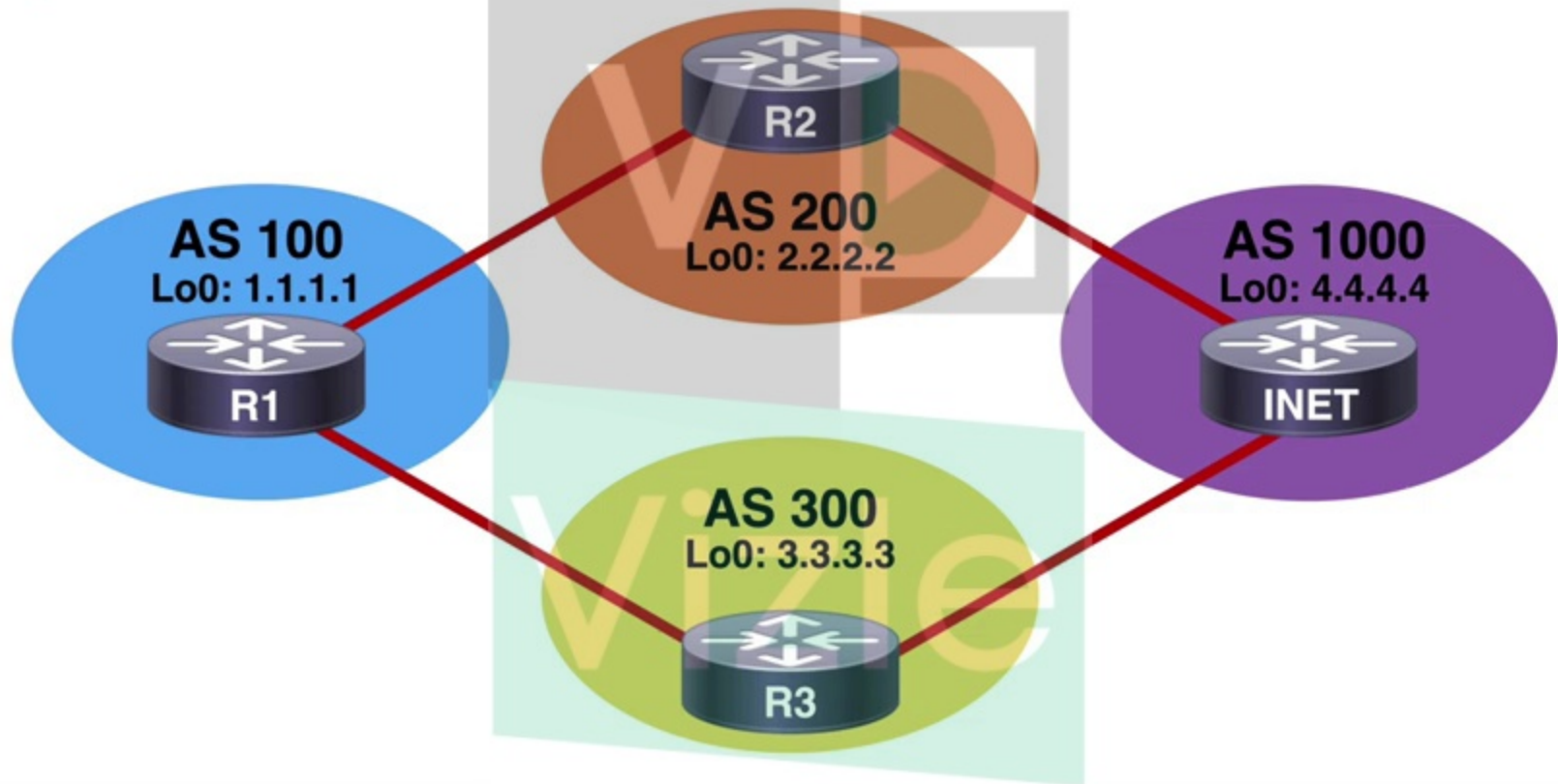
```
BGP table version is 11, local router ID is 2.2.2.2
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
               x best-external, a additional-path, c RIB-compressed,
               t secondary path,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found
```

Network	Next Hop	Metric	LocPrf	Weight	Path
*> 1.1.1.0/24	10.1.1.1	0		0	65100 i
*> 2.2.2.0/24	0.0.0.0	0		32768	i

R2#



Influencing Path Selection





```
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#  
R1#conf t  
Enter configuration commands, one per line. End with CNTL/Z.  
R1(config)#ip pre  
R1(config)#ip prefix-list AS100 permit 1.1.1.0/24  
R1(config)#route-map AS100  
R1(config-route-map)#match ip address pre  
R1(config-route-map)#match ip address prefix-list
```





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