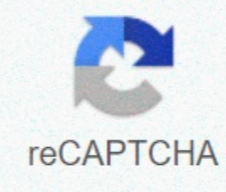




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## As path prepending cisco

In the last article, we looked at manipulation of the LOCAL\_PREFERENCE and now move on to AS-PATH. AS-PATH we can regulate our inbound traffic through which AS will enter us. None of the attributes considered did not allow it, because weight and LP are not in transit (i.e. attributes are not transferred to EBGP). AS-PATH NEXT\_HOP will allow us to do so. This technology is called AS-PATH Prepending. Si consideri la topologia dell'ultimo articolo: AS1.1 (config-route-map) #do eseguire sh s bgp router bgp 1 no synchronization bgp log-neighbor-changes network 1.1.1.0 mask 255.255.255.0 network 1.1.10.0 mask 255.255.255.0 neighbor 1.1.1.2 remote-as 1 neighbor 1.1.1.2 next-hop-self neighbor 1.1.10.2 remote-as 2 neighbor 1.1.10.2 route-map AS-PREP out neighbor 1.1.12.3 remote-as 1 neighbor 1.1.12.3 next-hop-self no auto-summary AS1.1(config-route-map)# Будем использовать тот же роутер AS1.1 и сделаем так, чтобы AS2 и AS3 входили в нашу систему AS1 через роутер AS1.2. Описываем route-map: route-map AS-PREP permit 10 set as-path prepend 1 1 1 1 1 Проверим sh ip bgp на AS2 и AS3. Видим поле Path, и видим что prepending у нас работает, а так же видим, что выбирается короткий маршрут по AS-PATH, то есть на данный момент в AS1 трафик идет через AS1.2, что и требовалось. В AS-Prepend есть подводные камни. Providers may not allow partial spending (and by default the right provider makes a special filter, 0-9 telling us that only one number can be used for AS-PATH, so the expense will not work). you need to coordinate with the operator who has hung on you a certain rule that will allow you to shop as many times as you have agreed. - If you have agreed with the operator, it does not guarantee that the pre-retirement expense will continue to be distributed safely. The route can be summarized, and therefore all data will be lost, or they can simply be completely rewritten AS-PATH by one of the transit operators (as we do with you). And then you will have to communicate with each operator who will build a goat. © Some else I would like to notice, in the route map through the set-path antepend indicated through 1 1 1 1, the supplier will dare another 1 (since one is genetically) and is added to this, Let's consider it. Pre-retirement is prohibited by filters. &lt;code>bgp= вместе= c= прежисом= прежисом= престо= прежисом= Звезда= передает= атрибуты= которые= описывает= политика= один= из= атрибутов= который= должен= обязательно= присутствовать= в= обновлении= bgp= то= as= path= он= описывает= через= какие= автономные= описывает= через= какие= автономные= описывает= idet= путь= к= соответствующему= прежиску= [правиль]= as= path= prepend= s= cisco= set= as= path= prepend= &lt;code>&lt;code>... &lt;code>as&lt;code>Дополнительная информация [правиль] Примечания Labels: Routing Routing Protocols R2(config)#router bgp 650002R2(config)#neighbor 1.1.1.1 remote-as 650014\*Mar 13 12:23:30.111: %BGP-5-ADJCHANGE: neighbor 1.1.1.1 UpR2(config-router)#neighbor 2.1.1.2 remote-as 650003R2(config-router)#network 2.0.0.0R2(config-router)#network 1.0.0.0R2(config-router)#network 2.0.0.0R2(config-router)#network 1.0.0.0R2(config-router)#network 2.0.0.0R2(config-router)#neighbor 2.1.1.1 remote-as 650002\*Mar 13 12:25:42.495: %BGP-5-ADJCHANGE: neighbor 2.1.1.1 UpR3(config-router)#neighbor 3.1.1.2 remote-as 650014R3(config-router)#network 3.0.0.0R3(config-router)#network 3.0.0.0R3(config-router)#network 2.0.0.0R3(config-router)#network 1.0.0.0R3(config-router)#network 3.0.0.0R3(config-router)#network 13.0.0.0 mask 255.255.255.0R3(config-router)#exitR4(config)#router bgp 650014R4(config-router)#neighbor 3.1.1.1 remote-as 650003\*Mar 13 12:27:46.807: %BGP-5-ADJCHANGE: neighbor 3.1.1.1 UpR4(config-router)#neighbor 4.1.1.2 remote-as 650014\*Mar 13 12:28:10.663: %BGP-5-ADJCHANGE: neighbor 4.1.1.2 UpR4(config-router)#network 4.0.0.0R4(config-router)#network 4.0.0.0R4(config-router)#network 3.0.0.0R4(config-router)#network 14.0.0.0 mask 255.255.255.0R4(config-router)#exitR1#show ip bgp summaryBGP router identifier 11.0.0.1, local AS number 650014Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd1.1.1.1 4 650002 16 13 18 0 0 00:07:58 93.1.1.2 4 650014 12 16 18 0 0 00:05:54 9R4#sh ip bgp summaryBGP router identifier 14.0.0.1, local AS number 650014Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd3.1.1.1 4 650003 17 12 18 0 0 00:06:20 74.1.1.2 4 650014 15 17 18 0 0 00:05:56 7R3#show ip bgpBGP table version 18, the local router ID is 13.0.0.1 Status data: s suppressed, d dampened, h history, \* valid, &gt; 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.Source codes: i - PGI, and - EGP, ? - incompleteRPKI validation codes: V valid, I invalid, N Not found Network Next Hop Metric LocPrf Weight Path \* 1.0.0.0 3.1.1.2 0 650002 650014 \* &gt; 2.1.1.1 0 650002 650014 \* &gt; 2.0.0.0 0.0.0.0 0 32768 i \* &gt; 4.0.0.0 3.1.1.2 0 650014 i \* &gt; 2.1.1.1 0 650002 650014 i \* &gt; 10.0.0.0 3.1.1.2 0 650002 650014 i \* &gt; 13.0.0.0/24 0.0.0.0 0 32768 i \* 14.0.0.0/24 2.1.1.1 0 650002 650014 i \* &gt; 13.0.0.0/24 0.0.0.0 0 32768 i \* 14.0.0.0/24 2.1.1.1 0 650002 650014 i \* &gt; codes: i - IGP, e - EGP, ? - incompleteRPKI validation codes: V valid, I invalid, N Not found Network Next Hop Metric LocPrf Weight Path \* 1.0.0.0 1.1.1.2 0 650002 i \* &gt; 0.0.0.0 0 32768 i \* &gt; 10.0.0.0 0.0.0.0 0 32768 i \* &gt; 20.0.0.0 3.1.1.1 0 650002 i \* &gt; 1.1.1.2 0 650002 650003 i \* &gt; 14.0.0.0/24 4.1.1.1 0 100 0 i \* &gt; 10.0.0.0 0 32768 i \* &gt; 10.0.0.0 0.0.0.0 0 32768 i \* &gt; 10.0.0.0 0.0.0.0 0 32768 i \* &gt; 11.0.0.0/24 1.1.1.2 0 650002 i \* &gt; 11.0.0.0/24 3.1.1.1 0 100 0 650003 i \* internal, best rx pathid: 0, tx pathid: 0x0 Refresh Epoch 1 650002 650003 1.1.1.2 from 1.1.1.2 (12.0.0.1) Origin IGP, localpref 100, valid, external rx pathid: 0, tx pathid: 0 (by default AS 650014 EXIT VIA R4 to reach AS 650003 route (30.0.0.0) prefix because of shortest AS-PATH)R1(config)# access-list 10 permit 30.0.0.0 0.255.255.0R1(config)#route-map cisco permit 10R1(config-route-map)#match ip address 10R1(config-route-map)#set local-preference 300R1(config-route-map)#exitR1(config)#route-map cisco permit 20R1(config-route-map)#exitR1#show ip bgp 30.0.0.0/8, version 22Paths: (1 best #1, table default) Announced to upgrade groups: 2 Update Eras 2 650002 650003 1.1.1.2 from 1.1.1.2 (12.0.0.1) Origin PGI, localpref 300, valid, external, best pathid rx: 0, tx pathid: 0x0 (now configures return traffic)R3#show ip bgpBGP table version is 18, Local router ID is 13.0.0.1Deppressed, d dampened, h history, \* valid, &gt; 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.Origin codes: i - PGI, and - EGP, ? - incompleteRPKI validation codes: V valid, I invalid, N Not found Network Next Hop Metric LocPrf Weight Path \* 1.0.0.0 3.1.1.2 0 650014 i \* &gt; 2.1.1.1 0 650002 650014 i \* &gt; 10.0.0.0 3.1.1.2 0 650002 650014 i \* &gt; 13.0.0.0/24 0.0.0.0 0 32768 i \* 14.0.0.0/24 2.1.1.1 0 650002 650014 i \* &gt; 0 650002 650014 i \* &gt; 11.0.0.0/24 3.1.1.2 0 650002 650014 i \* &gt; codes: i - IGP, e - EGP, ? - incompleteRPKI validation codes: V valid, I invalid, N Not found Network Next Hop Metric LocPrf Weight Path \* 1.0.0.0 1.1.1.2 0 650002 i \* &gt; 0.0.0.0 0 32768 i \* &gt; 10.0.0.0 0.0.0.0 0 32768 i \* &gt; 10.0.0.0 0.0.0.0 0 32768 i \* &gt; 11.0.0.0/24 1.1.1.2 0 650002 i \* &gt; 11.0.0.0/24 3.1.1.1 0 100 0 650003 i \* internal, best rx pathid: 0, tx pathid: 0x0 Refresh Epoch 3 650014 650014 650014 650014 3.1.1.2 from 3.1.1.2 (14.0.0.1) Origin IGP, localpref 100, valid, external rx pathid: 0, tx pathid: 0 Refresh Epoch 3 650002 650014 2.1.1.1 from 2.1.1.1 (12.0.0.1) Origin IGP, localpref 100, valid, external, best rx pathid: 0, tx pathid: 0x0R1#traceroute 30.1.1.1Type escape sequence to abort. Tracing the path up to 30.1.1.1VRF info: (vrf in name/id, vrf out name/id) 1 1.1.1.2 52 msec 56 msec 28 msec 2 2.1.1.2 [AS 650002] 120 msec 140 msec 176 msecR3#traceroute 10.1.1.1Se escape of the type to abort. Tracing the path to information 10.1.1.1VRF: (vrf in name/id, vrf out name/id) 1 2.1.1.1 36 msec 44 msec 64 msec 2 1.1.1.1 [AS 650002] 112 msec 92 msec 76 msecInternetworks Hello, I am currently planning an SD-Access deployment for my network. The current approach we are taking is the use of IP-Transit with SXP tunnels to allow SGT to travel through wan. From what I understand, the number of SXP tunnels required is calculated ... see more Hello! You can help me, I am new to VOIP.We have Cisco CUCM version 12.5.1 with phones 7960 and 7911. How can I see missed calls on the phone if the line is busy (talking to someone)? The person called SO is talking when I call him, the phone rings then... view more

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