
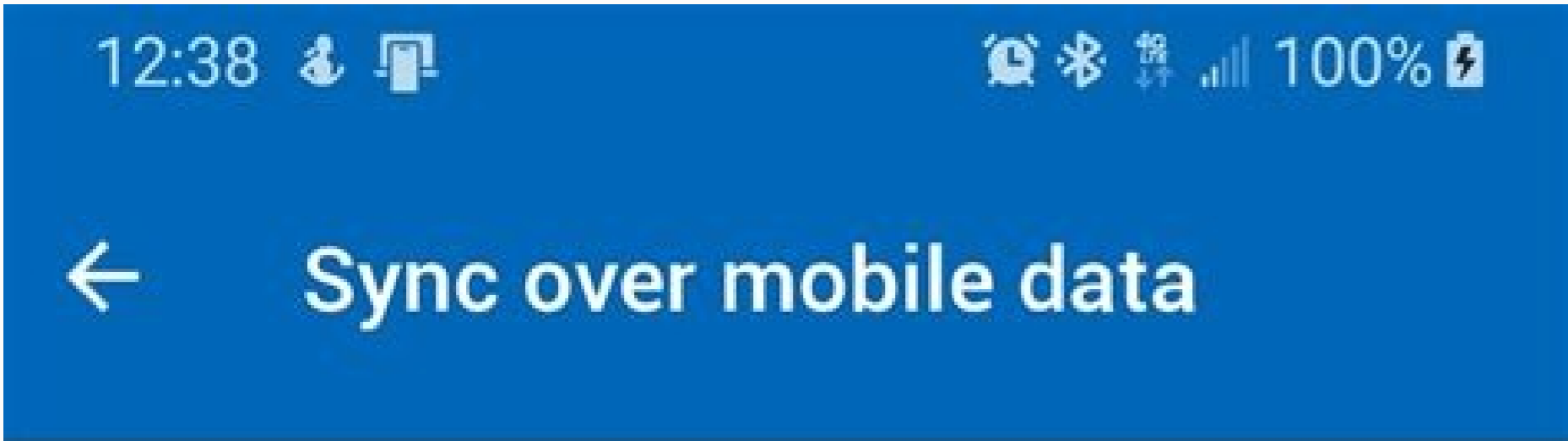


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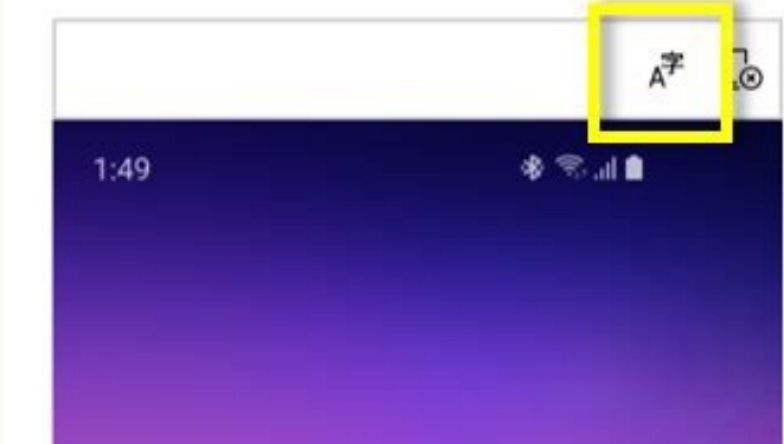
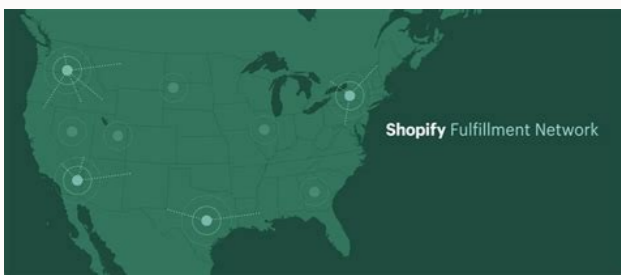
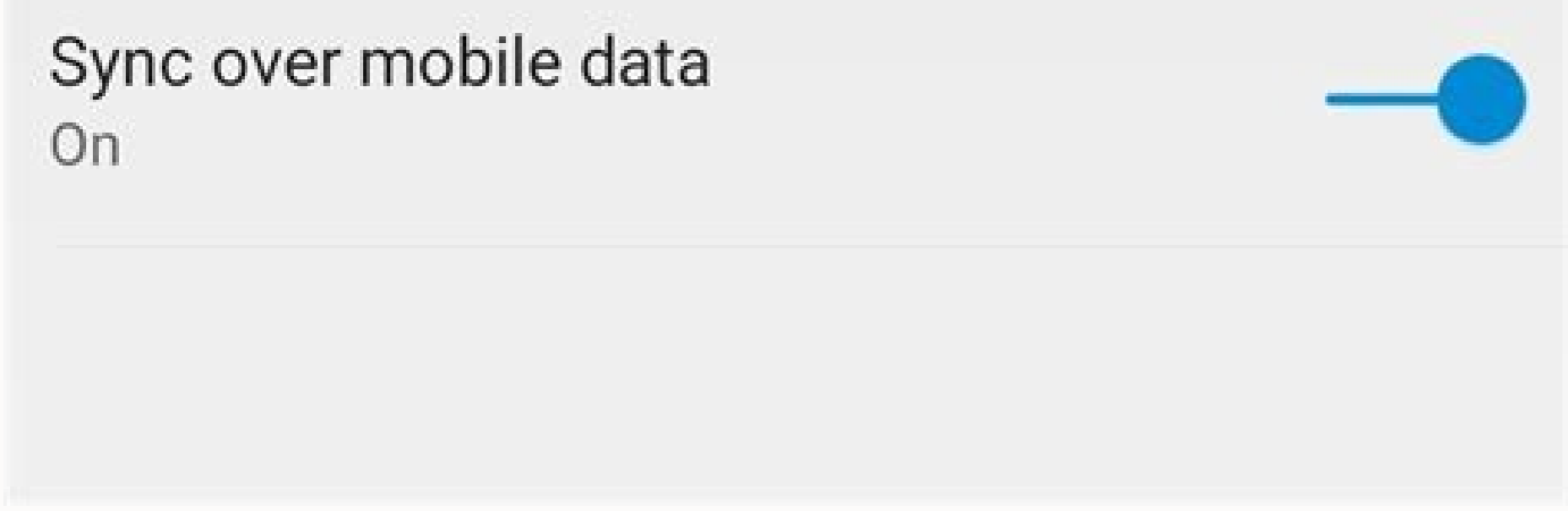
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Based on the value of the high-order byte in the Type field, the administrator field can be an AS or an IP address. The most well-known application for extended communities is in MPLS-VPN which makes use of two extended communities: Route Target community: Identifies the routers that can receive a specific set of routes. Route Origin community: Identifies the routers that inject a specific set of routes into BGP. A Virtual Routing and Forwarding (VRF) is a virtual routing table that can have its own separate routing policies separate from the global routing table or from other VRFs. Basically, you can connect multiple sites of a customer and have a separate routing table (VRF) across the entire network just for this customer and implement routing policies that are different from the routing policies of another customer. This separation is possible due to multiprotocol BGP extensions and MPLS. 6. Route Target Community The Route Target community is used in MPLS VPN environments to separate two customers' routing tables, as shown in the following diagram: Route Target Community BGP Route Example In this specific case, VRF Customer RED is present only on R1 and R12 and VRF Customer BLUE is present only on R11 and R22, but they could have been present on all four routers. When a route is exported through BGP from VRF Red, the route-target 100:100 is assigned to the route via export. The Large community is displayed as follows: 32-bit-ASN:32-bit-value:32-bit-value. If gathering resources, building structures and shooting at your enemies is what you look for in a game, Fortnite is the game for you. The first 16 bits encode the AS number that originated the community and the last 16 bits represent a unique number assigned by the AS. Since it prefers the route from R12, the traffic flows like this: Download Router Output R11#sh ip bgp 10.10.10.0/24 BGP routing table entry for 10.10.10.0/24, version 4 Paths: (2 available, best #2, table default) Advertised to update-groups: 6 Refresh Epoch 2 1 1 1 1.1.3.1 from 1.1.3.1 (1.1.100.11) Origin IGP, metric 100, localpref 100, valid, external Community: 1:3 rx pathid: 0, tx pathid: 0 Refresh Epoch 2 1 1 1.1.4.1 from 1.1.4.1 (1.1.100.12) Origin IGP, localpref 100, valid, external, best Community: 1:1 rx pathid: 0, tx pathid: 0x0 R11# Summary In this article, we discussed the most common BGP communities available for the BGP Community attribute and how they are used to direct traffic. Let's take a look at a few of the top-rated free PC games, according to Tech Radar and PC Magazine, across a range of genres. Screenrant gave this fighting game a "Very Good" rating. In this case, R1 uses the path from R11, meaning the traffic will flow like this: Traffic Flow Example Upload Router Output R1#sh ip bgp 10.10.10.0 BGP routing table entry for 10.10.10.0/24, version 2 Paths: (2 available, best #1, table default) Not advertised to any peer Refresh Epoch 1 1 1 1.1.3.2 (metric 20) from 1.1.1.2 (1.1.100.11) Origin IGP, metric 0, localpref 210, valid, internal, best Community: 1:210 rx pathid: 0, tx pathid: 0x0 Refresh Epoch 1 1 1 1.1.4.2 (metric 20) from 1.1.2.2 (1.1.100.12) Origin IGP, metric 0, localpref 205, valid, internal Community: 1:205 rx pathid: 0, tx pathid: 0 R1# Download A common way to influence your download traffic path (or how others send traffic to your AS), is to perform AS\_PATH prepend for your AS. Photo Courtesy: eclipse\_images/E+/Getty Images With the world still dramatically slowed down due to the global novel coronavirus pandemic, many people are still confined to their homes and searching for ways to fill all their unexpected free time. Since each of the standard or extended communities use 2-byte values for the AS, a 4-byte AS would not fit into the standard 2-byte value. When the route reaches R12, it imports the route from R1 so the sites connected to R1 and R12 are able to communicate. 7. Route Origin Community In an MPLS VPN environment, the route origin community is used to identify where routes originated from, so that readvertisement back to that site is avoided. MPLS VPN Environment In this case, when PE1 receives the route from CE1, besides the route-target that is attached to the route (using export), it also attaches the route origin community. The route reaches PE2, but PE2 does not advertise it to CE2, because it knows that it came from the site. 8. Large Communities A Large community is a 12-byte BGP community that was developed when the 4-byte AS began to be allocated. Each character has its own set of weapons to use during a match. Because each AS number is unique, each community is also unique on the internet. The Local-AS community doesn't advertise routes outside of the sub-AS. 4. Graceful Shutdown Community The Graceful SHUTDOWN (65535:0) community is used to smoothly shut down paths a router might use when its peer router is about to be intentionally shut down. One of these BGP attributes is the community. Each year, new editions don't necessarily offer many new features versus previous years, but they do tend to introduce gaming improvements like better dribbling and player responsiveness. Brawlhalla The "brawl" in Brawlhalla pretty much says it all for this fighting game that is similar to the popular Super Smash Bros. Photo Courtesy: @officialpes/Twitter The "Lite" version of Pro Evolution Soccer is free and gives players access to the Online myClub and PES Matchday Mode in addition to playing in Local and Co-op Matches and honing their skills in Training Mode, by Nintendo. In this game, you must coordinate with your teammates to destroy the opposing team's base. For R111 to have the route, there are multiple solutions like creating a full mesh of IBGP sessions between the routers of AS11, or breaking the AS 11 into a sub-AS inside of a confederation. A Sub-AS Inside of a Confederation The world outside of AS11 is unaware of AS 1000 and AS1001. In that article, we also covered some important definitions that provide context for discussing BGP functionality. Matches take place between five-person teams that focus on destroying their opponents' bases and towers. The longer the AS\_PATH, the less likely that path is selected by the best path selection algorithm. In the next illustration, AS 1 prefers that traffic forwarded from AS 111 is sent from R12. AS 111 (because of R111) has a policy stating that if AS 1 announces a prefix with the community 1:1, perform one AS\_PATH prepend. Some teams and stadiums are only available with the paid version of the game, but fan favorites like FC Barcelona and Manchester United are included. You fight in competitions with up to four players, and the ultimate goal is to knock your opponent out of the arena to score points. BGP Best Path Selection Algorithms as you have seen, BGP communities have multiple applications. Therefore, R111 sets the AS\_PATH of the route as [1 1]. Although BGP Communities are optional attributes, they are powerful for both internal and external traffic routing. Smite also features a rotating roster of free characters that can be permanently purchased with in-game currency or bought in packs with real cash. Remember, this attribute is optional and it's showing up because it was set on the route before being advertised: Border Gateway Protocol - Update Message When we check the route on R11 (because R11 accepted the route and also doesn't execute any operation on the community), we can see the route having the 1:110 community: R11#show ip bg 10.10.10.0/24 BGP routing table entry for 10.10.10.0/24, version 2 Paths: (1 available, best #1, table default) Advertised to update-groups: 1 Refresh Epoch 1 1 1 1.1.3.2 from 1.1.3.2 (10.10.10.1) Origin IGP, metric 0, localpref 100, valid, external, best Community: 1:110 rx pathid: 0, tx pathid: 0x0 R11# Now that you've seen what a BGP community looks like within an Update message, let's begin exploring the more advanced concepts surrounding this attribute. Advanced BGP Community Concepts A community is a 32-bit value split into two 16-bit sections. When it comes to escaping the real world and killing a little time, it's hard to beat the magic of some PC gaming. Photo Courtesy: @Brawlhalla/Twitter Smite Smite is another popular MOBA, this one with its champions being gods from ancient pantheons and classic myths. Fortnite Fortnite is arguably the most popular of the Battle Royale games to hit the tech world in quite some time. Like League of Legends, Brawlhalla engages in a weekly rotation of playable characters, but you can always purchase your favorites using in-game currency you collect as you play. League of Legends League of Legends is one of the most highly played multiplayer online battle arena (MOBA) games available for the PC. If the route is coming with the community of 1:3, then perform three AS\_PATH prepends ([1 1 1]). AS\_PATH prepend example R111 receives the two paths and must act based on the community attached to those paths. Well, one of the best parts about the game is that you can play with your friends — regardless of which platform they have, PC or gaming console — so get ready for some "friendly" backstabbing. Although BGP communities represent just one of the BGP attributes available, there's a lot to be said about them. The game also continues to make an effort to perfect the fan-favorite Master League mode. PC Gamer rated Smite an 86 out of 100, with particularly high marks for its arena combat. Extended Community An extended community is a 6-byte value that is divided into two main sections: First 2 bytes: Specifies community type Last 6 bytes: Provides unique information specific to the community type An extended community has three fields: type, administrator, assigned number (type:administrator-assigned-number). The game dumps you into a world with 99 other players, where you engage in a free-for-all battle until only a single player is left standing. They are important for tagging routes, manipulating traffic, and performing various actions on the BGP attributes of routes matching specific communities. Whenever a route must determine which path of many to take to a given destination, it has to follow the BGP best path selection algorithm, which evaluates BGP attributes. You can read more about the BGP best path selection algorithm in our previous article, BGP Attributes. BGP Community Examples This section demonstrates how a BGP community attached to a route can influence the upload and download traffic to and from hosts from that prefix. Upload There are multiple ways to influence the upload traffic path, but the most common is to make use of the local preference. As you've seen in the BGP Attributes article, the higher the value of the local preference for a route, the more likely that path is chosen by the BGP best path selection algorithm. In the following illustration, R11 and R12 are configured to: Set the local preference to 205 if they receive a route with community 1:205. Set the local preference to 210 if they receive a route with community 1:210. Setting A Local Preference Example Both of these routers advertise the routes to R1, which must decide which path to use. You might see a BGP community as a tag attached to the BGP routes exchanged between two BGP peers. To get started, let's look at what a BGP community set to a route looks like in an Update message. For illustration, suppose that R111 is using R11 to reach the 10.10.10.0/24 subnet, but R11 will go down for a reboot to be upgraded. Graceful Shutdown BGP Route Example Once R11 advertises this community, R111 responds by switching traffic over to R12 with minimal impact. Graceful Shutdown BGP Re-Route Example 6. Consider this simple network, where R111 advertises the 10.10.10.0/24 route to the AS 11 BGP peer. The game does provide opportunities to earn game currency as you play, which you can then use to purchase champions. R111 sets the community 1:110 on the routes it advertises to R11. When looking at the BGP Update message from R111 (1.1.3.2) towards R11 (1.1.3.1), we can see multiple BGP attributes along with their value. Think that sounds bloodthirsty? No-Export Community When a No-Export community is attached to a route, the router won't advertise the route to external peers — only to internal peers. The following example shows a No-Export Route (10.10.10.0/24) not being advertised by R1, R11, or R12 to their external peer, R111. No-Export BGP Route Example In this specific case, R1 will not advertise the route to R111, only to R11 and R12, because these two are internal BGP peers. Photo Courtesy: @SMITEGame/Twitter Pro Evolution Soccer 2018 Lite Pro Evolution Soccer (PES) is one of the bestselling video game franchises of all-time around the world. You can even use them to prepare traffic redirection for planned reboots and shutdowns. For more information on BGP concepts, check out our Network Administrator's guide. Don't expect to master the complexities of this game overnight, but the action starts as soon as you click the "play" button. The fun of gaming gets even better when you find games you love that you can play for free on your PC. Photo Courtesy: @LeagueOfLegends/Twitter The game rewards careful tactics and good teamwork and is always free to play, but if you want to keep your character after a week or add any special features and enhancements to your game play, you will have to pay a fee. The game is played from a third-person perspective, making combat feel much more dynamic. If you're worried about what a gaming hobby could do to your tight budget right now, we've got you covered. MORE FROM QUESTIONS ANSWERED.NET In our previous article dedicated to BGP attributes, we covered how routers evaluate BGP attributes found in the Update message to select the best path to be installed in the routing table. In this article, we'll explore what kind of BGP communities exist and how you can use them to manipulate network traffic. What is a BGP Community? A BGP community is an optional, transitive BGP attribute that is recognized and passed to other BGP peers. Subsequently, R11 and R12 will not advertise either route to R111 because it is an external BGP peer. 3. Local AS Community To avoid any BGP routing loops, there is an important rule regarding the internal BGP neighbors: an IBGP neighbor cannot advertise a route to an IBGP neighbor if it received that route from another IBGP neighbor. The following example shows a Local AS Route (10.10.10.0/24) not being advertised between IBGP neighbors (R11 and R111) within the local AS. Local AS BGP Route Example More exactly, R11 advertises the route to R22, but R22 does not advertise the route to R111, based on the rule mentioned above. This means that an AS with the ASN 9999 (which in hex is 0x270F) can have communities in the range 0x270F0000 - 0x270FFFFF. Well-known BGP Communities The following are few well-known communities that must be recognized by all community-aware BGP implementations. 1. No-Advertise Community When a No-Advertise community is attached to a route, the BGP speaker won't advertise the route to any internal or external BGP peers. The following example shows a No-Advertise Route (10.10.10.0/24) not being advertised by R1 to peers R11, R12, R111. No-Advertise BGP Route Example 2. This allows R111 to receive the 10.10.10.0/24 route without having full mesh BGP peering. Photo Courtesy: @FortniteGame/Twitter Even if you aren't playing with friends, it's easy to find a match to join, and the game is highly addictive. League of Legends uses a freemium model where characters rotate weekly, and certain extras cost money.

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