Spanning tree protocol cisco español pdf

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enabled protocol ieee Root ID Priority 24577 Address 0060.477C.5DA0 Cost 19 Port 2(FastEthernet0/2) Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Aging Time 20 SWITCH PRIORITY на нем. Теперь давайте конвертировать SWITCH VARADERO в корень, вручную назначив им LOWER PRIORITY, чем тот, который SWITCH CUBA (24577). Командный синтаксис: SW2 (конфигурация)#spanning-дерево vlan приоритет Команды для запуска конфигурации: SWITCH VARADERO - настройка терминала SWITCH VARADERO (конфигурация) - охватывающий дерево vlan 1 приоритет 4096 Результат показан на следующей цифре: Давайте проверить, если они были успешными Изменения в шоу SWITCH VARADERO SWITCH VARADERO охватывающих дерево VLAN0001 Spanning Tree Enabled Protocol ieee Root Identification Приоритет 4097 Адрес 0003. E49E. 950C Этот мост является корнем Hello Time 2 сек. Возраст 20 сек. Задержка вперед 15 сек Bridge ID Приоритет 4097 (приоритет 4096 sys-id-ext 1) RAI' SWITCH должны быть изменены по-разному всегда с учетом RAI' SWITCH будет один с самым низким PRIORITY ID BRIDGE во всей сети. В области коммуникаций STP (Spanning Tree Protocol) — сетевой протокол уровня 2 модели OSI (Data Binding Laver). Его функция заключается в управлении наличием циклов в сетевых топологиях из-за наличия избыточных ссылок (необходимых во многих случаях для the presence of connections). The protocol allows interconnect devices to automatically turn on or off connection links to ensure that the loop is removed. STP is transparent to custom stations. Story It is based on an algorithm developed by Radia Perlman while working at DEC. There are two versions of STP: the original (DEC STP) and the standardized version of IEEE (IEEE 802.1D), which are not compatible with each other. It is currently recommended that IEEE BE standardized. There are several variants of STP mainly because of the time it takes to bring the algorithm used together. One such option is the Rapid Tree Expansion Protocol, the IEEE 802.1D-2004 standard, which today replaced the use of the original STP standard. 2012 IEEE 802.1ag

has been approved as the standard for replacing IEEE 802.1b, IEEE 802.1v, IEEE 802.1s Motivation Loops occur when there are alternative routes are necessary to ensure redundancy and thus to ensure greater network reliability, as in the event of a communication failure, the rest can continue to maintain network traffic. Problems arise when using connection level, such as a network bridge or a packet switch. When cycles exist in the topology network, communication level devices link data forward broadcasting and multicast frames indefinitely, creating an endless loop that consumes both network bandwidth and processor routing devices. This leads to a deterioration in network performance in a very short time and may even become unusable. Because layer 2 frames don't have a TTL (life) field, they are trapped indefinitely until the system administrator breaks the loop. The router, on the other hand, can avoid such an uncertain overcooking. The solution is to allow excess physical bindings, but to create a non-cycle of logical topology. STP calculates one path, free of loops between devices on the network, but keeping redundant links off as a backup to activate them in the event of a failure. If the STP configuration changes, or if the segment in the redundant network becomes unavailable, the algorithm reconfigures the bindings and restores the connection by activating one of the backup attachments. If the protocol fails, both connections can be active at the same time, which can lead to an endless cycle of traffic to LAN. The covering tree remains in force until there is a change in the topology, the situation, Automatically. The maximum duration of covering the tree is five minutes. With one of these changes, the current root bridge redefines the covering topology of the tree or a new root bridge selected. Operation Algorithm converts a mesh physical network in which there are cycles over a logical network in the form of a tree (without loops). Bridges communicate via a configuration message called Bridge Protocol Data Units (BPDUs). The protocol sets identifiers on one bridge and selects the one that has the highest priority), such as the root bridge. This root bridge will create the cheapest path for all networks; Each port has a customizable setting: the cost of the Span path. Then, among all the bridges connecting the network segment, a designated bridge (in the case of the same cost on two bridges, one with the lowest MAC ID) to transfer the frame to the root. On this designated bridge, the port that connects to the segment is the designated port and the one that offers a lower cost path to the root bridge, as it will affect the traffic flow. When the switch is on, it assumes it is a root switch and sends BPDUs, which contain a mac address in itself on both the root and the IDB sender. The ICBM is the bridge Priority and Mac Bridge address. Bridge Priority is a customizable value that is assigned to 32768 by default. The Mac Bridge address is the (unique) MAC address of the bridge. Each switch replaces the highest root ICBM with the lower root ICBM with the lower root ICBM with the lower root ICBM in sent by BPDUs. All switches receive BPDUs and determine that the switch, whose root value BID is the lowest, will be the root bridge. In the case of a draw, the root switch will be the one with the smallest MAC. The network administrator can prioritize the switch at less than the default (32768), the new value should be multiples of 4096, making the ICBM smaller. This should only be implemented when you have an in-depth knowledge of the flow of traffic to the Root Port Choice Network Once you have chosen the root bridge, you should calculate the root port for other bridge is the same: among all the ports on the bridge, the port that has the lowest cost of the root bridge is chosen as the root port. If there are two or more ports with the same To the root bridge, the MAC address with the lowest value is used to calculate the cost and set up the root bridge and root ports of other bridges have been selected, we move on to the calculation of the designated ports of each segment of the network. On each link that exists between the two switches will be the designated port, which will switch the port (Ethernet, FastEthernet, GigabitEthernet). Each type of connection will have a different administrative cost, with the lower cost is the port with a higher speed. If there is a link between the administrative costs that the two switches must reach the root bridge, then it will be selected as the designated port, the switch port, which has a lower bridge ID (IDB). Blocked ports that are not selected as root or designated should be blocked. These ports avoid cycles. Spanning Tree Maintenance The topology change can occur in two ways: the port is disconnected or blocked port passes from locked or disconnected to If a change is detected, the switch notifies the root bridge of this change, and then the root bridge transmits this change. To do this, you enter a special BPDU notification called topology change (TCN). When the switch has to warn about a change in topology, it begins to send TCN to the root port. TCN is a very simple BPDU that contains no information and is sent during the hi-time interval. The switch that receives TCN is called a designated bridge and performs confirmation, immediately sending a normal BPDU with a bit of topological change confirmation (TCA). This exchange continues until the root bridge reacts. The bridge protocol data units of the above rules describe a way to determine which tree will be calculated by the algorithm, but the rules, as written, require network knowledge. Bridges should identify the root bridge and calculate the functions of ports (root, marked or blocked) only with the information they have. To ensure that each bridge has sufficient information, bridges use a special data framework called the Bridge Protocol Data Units (BPDUs) to share information about bridge identifiers and the cost of root routes. The bridge sends the BPDU frame using the port's unique MAC address as the source Change Notification (TCN) BPDU tree used to announce changes to the BPDU topology network, is regularly exchanged (every 2 seconds by default) and allows you to switch, track network changes and initiate and stop the port as needed. When the device first connects to the port on the switch, it will not immediately start sending data. Instead, it will go through a number of states when processing BPDUs and determining network topology. When a host joins, such as a computer, printer, or server, the port will always be in the sending state, albeit with a delay of about 30 seconds, passing through the listener's state and learning (see below). The time spent listening and learning is determined by a value known as a delay in sending (the default is 15 seconds and the root bridge is set). However, if another switch is connected instead, the port can remain in lock mode if it is found to cause a loop on the network. BPDUs (TCN) change notifications are used to inform other port switch changes. TCNs are injected into the network using a non-rooted switch that extends to the root. After receiving the TCN root switch will set the flag of the topology change on its usual BPDU. This flag extends to all other switches to instruct them to quickly age their re-hunting table entries. The status of the Port States in which the port may be located is as follows: Lock: In this state, BPDU can be received but will not send them. Data frames are discarded and MAC (mac-address-table) tables are not updated. Switches start in this state because if they send (forward), they can generate a loop or loop. Listen: This state is reached from Lock. In this state because if they send (forward), they can generate a loop or loop. Listen: This state is reached from Lock. In this state because if they send (forward), they can generate a loop or loop. Listen: This state is reached from Lock. In this state is reached from Lock. table (mac-address-table) is not updated. BPDUs are processed. Learning: This state is reached from Listen. Data frames are discarded, but MAC address tables are already being updated (this is where they are first explored). BPDUs are processed. Send: This status is achieved from training, in this state the port can send and receive data. Footage of the data is sent and viewed by IEEE 802.1w - 2004 Tree Rapid Expansion Protocol (MSTP) IEEE 802.1ag - 2012 Самый короткий путь преодоления (SPB) Enlaces externos Como se construye un spanning tree Datos: No852555 Мультимедиа: Spanning дерево протокол Obtenido де

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