CSS integration with Huawei access switch STP



Overview

This guide explains Huawei's iStack and CSS technologies for stacking low-end and high-end switches, covering roles, stack IDs, priorities, physical and logical ports, connection methods, detailed configuration commands, and direct-link detection (DAD) to ensure. This guide explains Huawei's iStack and CSS technologies for stacking low-end and high-end switches, covering roles, stack IDs, priorities, physical and logical ports, connection methods, detailed configuration commands, and direct-link detection (DAD) to ensure. Huawei CE series switches support cluster switch system (CSS) technology (stacking of modular switches) and intelligent stack (iStack) technology (stacking of fixed switches). CSS and iStack have the following characteristics: 1. Many-to-one virtualization: CSS or iStack virtualizes multiple. Two modular switches at the aggregation layer use VRRP and STP to implement gateway backup. In Figure 3-3, two switches set up a CSS and are virtualized into a single logical switch. Simplified. In this lessons, we will focus on STP (Spanning Tree Protocol) Configuration on Huawei Switches. For our Huawei STP Example, we will use the basic topology below.

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Article Content

Stack Scheme

Multiple access switches form an iStack and two aggregation switches form a CSS. Access and aggregation switches are fully meshed through multiple 10GE or 40GE links, ensuring link reliability.

Combining Standalone Switches into a CSS

To simplify the configuration, the two modular switches need to be combined into a logical CSS. In Figure 3-25, S1 and S2 at the aggregation layer are two standalone switches and need to be

01-03 CSS CONFIGURATION

After you use cluster cables to connect two switches, enable the CSS function and perform CSS configuration on the switches, and restart the switches, the switches automatically set up a CSS.

01-09 CSS CONFIGURATION

This chapter describes how to configure Cluster Switch System (CSS) to improve forwarding performance and reliability. This section describes how to configure enhanced CSS functions that

Huawei STP Configuration | Huawei eNSP Example ⋆ IPCisco

In this lesson, we will focus on Huawei STP (Spanning Tree Protocol) Configuration on Huawei Switches. We will practice various STP commands on eNSP.

Huawei Switch Stacking (iStack) and Cluster (CSS) Conf | BestHub

This guide explains Huawei''s iStack and CSS technologies for stacking low-end and high-end switches, covering roles, stack IDs, priorities, physical and logical ports, connection

07+Eth-Trunk+iStack+and+CSS | PDF | Network Switch

• Many-to-one virtualization: Switches can be virtualized into one logical switch (CSS) that has a unified control plane for unified management. • Unified forwarding plane: Physical switches in a CSS use a

iStack and CSS Overview

This chapter describes how to use Eth-Trunk, intelligent stack (iStack), and cluster switch system (CSS) technologies to improve network bandwidth and reliability.

How to Configure Spanning Tree (STP, RSTP, MSTP) | 2025

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Choosing the right spanning tree protocol depends on network size and requirements. By properly configuring STP, RSTP, or MSTP on Huawei, Cisco, or Juniper devices, network

How to Master Huawei Switch Stacking: Best Practices and ...

Switch stacking is a cornerstone of modern network design, enabling simplified management, improved redundancy, and scalable bandwidth. Huawei''s stacking technology (e.g.,

A Switch Connects to a CSS

A Switch Connects to a CSS As shown in Figure 3-18, the switch connects to a CSS using link aggregation, and the Eth-Trunk is enabled to preferentially forward local traffic. Preferentially

Example for Setting Up a CSS of Two Member Switches Using CSS Cards ...

Example for Setting Up a CSS of Two Member Switches Using CSS Cards Overview of CSS A Cluster Switch System (CSS), also called a cluster, is a logical switch consisting of two

Example for Combining Standalone Switches into a CSS

Networking Requirements Two modular switches at the aggregation layer use VRRP and STP to implement gateway backup. To simplify the configuration, the two modular switches need to be

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Overview iStack (Intelligent Stack) is used on low-end Huawei switches (S2700, S3700, S5700, S6700) to logically merge up to nine devices, while CSS (Cluster Switch System) provides

Configuring a Stack/CSS

Context This section describes how to configure a CSS of modular switches and a stack of fixed switches. This example uses the network plan import function of iMaster NCE-Campus to import the

Process of Setting Up a CSS of Modular Switches

The CSS technology combines two clustering-capable modular switches into a logical switch. This technology simplifies configuration and management, increases bandwidths, and enables

Cisco VSS vs Huawei CSS: A Comprehensive Comparison

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Cisco VSS vs Huawei CSS: A Comprehensive Comparison Cisco VSS and Huawei CSS both integrate two switches into a single logical switch, however they differ in terms of features,

Example for Configuring STP

In Figure 5-16, SwitchA, SwitchB, SwitchC, and SwitchD running STP exchange STP BPDUs to discover loops on the network and block ports to prune the network into a loop-free tree

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