

Configure PPPoE on the core switch



AI Overview

To configure PPPoE on a core switch, you need to set up VLANs, create IP pools, configure authentication, and bind virtual templates to interfaces.

Step 1: Understand PPPoE Basics

PPPoE encapsulates PPP frames inside Ethernet frames, allowing point-to-point connections over a Layer 2 network. It uses a client/server model where the PPPoE client initiates a session and the server authenticates and provides IP addresses. PPPoE sessions are uniquely identified by a SESSION_ID and the client's MAC address, and MTU should be set to 1492 to avoid fragmentation issues .

Step 2: Create VLANs

- Define VLANs to segment user traffic and server connections.
- Assign interfaces connected to users as hybrid or access ports and add them to the appropriate VLAN.
- Example: VLAN 10 for users, VLAN 20 for the RADIUS server .

Step 3: Configure IP Address Pools

- Create a local IP address pool to allocate IP addresses dynamically to PPPoE clients.
- Assign IP addresses to VLAN interfaces (VLANIF) to ensure routing between clients, the switch, and internal servers .

Step 4: Set Up Authentication

- Configure a RADIUS server template and AAA scheme on the switch.

Article Content

Core Switch and Access Switch configuration

Hi TEAM, I have a 2 3850 core switch which is on HA and 2960x for my access switch, i required help on 2 things. 1)

PPPoE Server on Mikrotik: Step-by-Step Configuration Guide

Configure your PPPoE server on Mikrotik! Learn essential steps, including creating IP pools, PPPoE profiles, and

PPPoE ISP Setup — OPNsense documentation

Summary This guide covers the configuration of a PPPoE setup that subscribes the OPNsense to a Provider Edge Router (PE). Most

Ruijie Reyee RG-EG Series Routers ReyeeOS 2.340 Configuration

Click in to download Ruijie Reyee RG-EG Series Routers ReyeeOS 2.340 Configuration Guide (V1.3) or get more details of this

2960 Allow only PPPoE on port

Hi all, is there any way to allow only PPPoE communication on ethernet port on 2960X or 2960S catalyst switches?

Solved: How to configure PPPoE authentication on the Ethernet

This router should negotiate it's IP via PPPOE on one of the Ethernet interfaces. Now to my question: 1. is it possible

BNG Configuration Guide for IPoE & PPPoE

This document provides a detailed walkthrough for configuring Broadband Network Gateway (BNG) for IPoE and

PPPoE Switch: Guide to Network Connectivity

While standard Layer 2 switches transparently forward PPPoE traffic, advanced Layer 3 managed switches can be

How to set PPPoE Intermediate Agent on ECS4110-28T ?

We can capture the packets on the PPPoE server to know whether the PPPoE connection it is success or not. Besides, we can

Example for Configuring PPPoE+

Example for Configuring PPPoE+ Networking Requirements As shown in Figure 11-3, the Switch is connected to an upstream BRAS

Cisco ME 3400E Ethernet Access Switch Software Configuration

This example shows how to enable PPPoE IA: Switch> enable Switch# configure terminal Switch(config)# pppoe

How to Configure a PPPoE Server on TP-Link Router

Configuring PPPoE Server on TP-Link Router Step 1: Access the router's management webpage, go to Services

Mastering MikroTik & Managed Switches: Routing, VLANs, PPPoE,

☐☐ Complete Guide: MikroTik in Practice — VLANs, PPPoE, Failover, NAT, Mangle, QoS & Firewall This guide is the

PPPoE on Ethernet

Disable the switch port by executing the " no switch port " command and build the routing then configure PPPOE

Configuring PPPoE

Continuing with PPPoE Configuration This chapter provides the following major sections to describe how to configure Point-to-Point

Application Services Configuration Guide, Cisco IOS XE 17.x

The PPPoE on Ethernet feature adds support to Point-to-Point Protocol over Ethernet (PPPoE) by adding direct

MikroTik Configuration with PPPoE WAN Connection

In my previous article, I discussed how to configure MikroTik Router with static WAN connection and in this article I will

Configuring PPP over Ethernet with NAT& nbsp;

Configuring PPP over Ethernet with NAT The Cisco 851 and Cisco 871access routers support Point-to-Point Protocol over Ethernet

Contact Us

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