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Introduction

This document describes the procedure to configure Point to Point Protocol over Ethernet (PPPoE) on Cisco ASR 920 Aggregation Service Router acting as Client.

Prerequisites

Requirements

Cisco recommends that you have knowledge of End-to-End Layer 1 connectivity.

Components Used

The information in this document is based on Cisco ASR 920 hardware.

The information in this document was created from the devices in a specific lab environment, All of the devices used in this document started with a cleared(default) configuration.

Note: If your network is live, ensure that you understand the potential impact of any command.

Configure

Note: Use the [Command Lookup Tool](#) ([registered](#) customers only) in order to obtain more information on the commands used in this section.

Configuration on the Routers are from a back to back setup (Client and Server).

Client Configuration

It is specific to the ASR 920 Platform.

Server Configuration

This remains the same in all scenarios, irrespective of the platform used on client side.

Verify

Use this section to confirm that your configuration works properly.

These debugs are enabled on both Client and Server:

- Debug ppp negotiation
- Debug ppp authentication
- Debug ppp error
- Debug dialer

Client Logs:

Server Logs:

Troubleshoot

This section provides information you can use to troubleshoot your configuration.

Follow the standard PPP [troubleshooting steps](#).

Note: If the BDI interface is not configured and the PPPoE Client Configuration is applied on Gigabit Ethernet interface, you will see that the PPPoE session does not get established and displays this error message.

Related Information

- [Configuring the PPPoE Client](#)
- [PPP over Ethernet Client](#)
- [Technical Support & Documentation - Cisco Systems](#)