

Configure SD-WAN to use Automatic Tunnel Configuration

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Introduction

This document describes how to configure SD-WAN to use an Automatic Tunnel Configuration.

Overview

You can configure SD-WAN to use an Automatic Tunnel Configuration, as seen [here](#).

This configuration allows the device(s) to automatically connect to SWG and perform the selection automatically. It uses these DNS records to check this destination:

global-a.vpn.sig.umbrella.com
global-b.vpn.sig.umbrella.com

This returns the closest DC based on their Region Code. It is helpful to refer to our [Datacenter Documentation](#) in order to be able to predict which resolvers you get.

In the case of a customer in Paris:

- Global A (Primary) returns: 146.112.102.8 (Paris)
- Global B (Secondary) returns: 146.112.103.8 (Prague)

This makes logical sense as Paris is closer. When a customer is located in Prague, they receive the same information as they are connecting to EU-2.

Region Code	DC Location	IP
US-1	Los Angeles, CA	146.112.67.8
US-1	Santa Clara, CA	146.112.66.8
US-2	New York, NY	146.112.83.8
US-2	Ashburn, VA	146.112.82.8
US-3	Miami, FL	146.112.84.8
US-3	Atlanta, GA	146.112.85.8
EU-1	London, UK	146.112.97.8
EU-1	Frankfurt, DE	146.112.96.8
EU-2 Primary	Paris, FR	146.112.102.8
EU-2 Secondary	Prague, CZ	146.112.103.8
EU-3	Copenhagen, DK	146.112.100.8
EU-3	Stockholm, SE	146.112.101.8
EU-4	Milan, IT	146.112.107.8
EU-4	Madrid, ES	146.112.106.8

Connect_to_Cisco_Umbrella_Through_Tunnel.png

This means that despite the fact that the hypothetical customer is located in Prague, when they set up an Auto-Tunnel in SD-WAN, they have Paris as their Primary Tunnel.

For clarity, in Prague, the customer can expect the same records since they are in the same "Region Code":

- Global A (Primary) returns: 146.112.102.8 (Paris)
- Global B (Secondary) returns: 146.112.103.8 (Prague)

This can result in some confusion since it would appear that we are not routing to the most optimal Datacenter.

Remediation

It is important to stress that this is not a bug, this is functioning as designed.

There are a couple options available:

- Upgrade to the latest version of SD-WAN which allows you to reverse the DC selection
- Use the instructions for manual tunnel configuration ([V-Edge](#) | [C-Edge](#))

UPDATE: The latest version of vManage actually allows you to specify which DCs you want to select exactly via autotunnel.

Active		Active Weight	
Pair-1	<div><div></div><div>ipsec12</div><div>▼</div></div>	<div><div></div><div>1</div><div>▼</div></div>	<div><div>au1-a.vpn.sig.umbrella.com</div><div>(IP: 146.112.118.8, City/Country: Sydney, AU)</div><div>au1-b.vpn.sig.umbrella.com</div><div>(IP: 146.112.119.8, City/Country: Melbourne, AU)</div><div>ca1-a.vpn.sig.umbrella.com</div><div>(IP: 146.112.65.8, City/Country: Toronto, CA)</div><div>ca1-b.vpn.sig.umbrella.com</div><div>(IP: 146.112.64.8, City/Country: Vancouver, CA)</div></div>

▼

Advanced Settings

Umbrella Primary Data-Center

▼

Required

Umbrella Secondary Data-Center

Auto

▼

Screen_Shot_2022-07-20_at_2.41.36_PM.png