

Initialize Speed Test for CDFW and Network Tunnels for Umbrella

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Introduction

This document describes how to conduct a speed test for Cloud Delivered Firewall or Network Tunnels in Cisco Umbrella.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on Cisco Umbrella Secure Internet Gateway (SIG).

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

Overview

Cisco Umbrella provides multiple downloads for testing performance of the Network Tunnel. These files exist in every data center and can be used as a good performance measurement for determining the average download speed for a real file download. They measure the performance of your tunnel and Umbrella infrastructure without additional overhead of the connection between Umbrella and a third-party website.

For a basic speed test review you can navigate to <http://speedtest.checkumbrella.com/>. But for more in depth troubleshooting, please refer to the tests outlined later in this article.

Downloading the Files

You can download the files using a tool which measures the average speed. Here is an example using curl which prints progress by default:

```
curl http://146.112.255.0:8080/target-10M -o /dev/null
```

```
root@nixbox:~# curl http://146.112.255.0:8080/target-100M -o /dev/null
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100 100M  100 100M    0     0  8529k      0  0:00:12  0:00:12 --:--:-- 9470k
```

5195287462548

Testing CDFW Only

<http://146.112.255.0:8080/target-100M>

<http://146.112.255.0:8080/target-10M>

Testing CDFW+SWG

<http://146.112.255.0/target-100M>

<http://146.112.255.0/target-10M>

Caveats for Downloading

- These files are provided "as is" without documentation or support for testing.
- Disable other Anti-Virus and web security software (including Cisco AnyConnect) when testing this.
- Disable other on-premise web security solutions (proxies, URL filtering) when testing this.
- The performance can be affected by other concurrent traffic you are generating.