Umbrella-Supported Cipher Suites

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Introduction

This document describes the Umbrella-supported Cipher Suites.

Overview

Cisco Umbrella accepts the mentioned Cipher Suites when negotiating HTTPS connections to, and upstream from, the Secure Web Gateway (SWG), Intelligent Proxy, and block pages. Clients must support at least one of the Cipher Suites mentioned in order to successfully connect to those services.

The Product Security Baseline (PSB) of Cisco defines security requirements for functionality, development, and testing. Part of those requirements drive the list of supported Cipher Suites. These are documented here for informational purposes and are not configurable in Umbrella.

PSB Approved Cipher Suites

ECDHE-ECDSA-AES128-SHA	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA
ECDHE-ECDSA-AES128-SHA256	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256
ECDHE-ECDSA-AES128-GCM-SHA256	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256
ECDHE-ECDSA-AES256-SHA384	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384
ECDHE-ECDSA-AES256-GCM-SHA384	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384
ECDHE-RSA-AES128-SHA	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA
ECDHE-RSA-AES128-SHA256	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256
ECDHE-RSA-AES128-GCM-SHA256	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256
ECDHE-RSA-AES256-SHA384	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384

ECDHE-RSA-AES256-GCM-SHA384	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
AES128-SHA	TLS_RSA_WITH_AES_128_CBC_SHA
AES128-SHA256	TLS_RSA_WITH_AES_128_CBC_SHA256
AES128-GCM-SHA256	TLS_RSA_WITH_AES_128_GCM_SHA256
AES256-SHA256	TLS_RSA_WITH_AES_256_CBC_SHA256
AES256-GCM-SHA384	TLS_RSA_WITH_AES_256_GCM_SHA384
AES256-GCM-SHA384	TLS_AES_256_GCM_SHA384
AES128-GCM-SHA256	TLS_AES_128_GCM_SHA256