

Cisco AnyConnect VPN

Provide secure remote access to internal corporate applications using Cisco's AnyConnect VPN on Adaptive Security Appliance (ASA) or FirePower Threat Defense (FTD) with Duo's multi-factor authentication (MFA) solution.

THE CHALLENGE:

Stolen User Credentials

With Cisco AnyConnect VPN, users have remote access to their on-premises applications. However, just because a user is on AnyConnect VPN, it doesn't mean they have secure access to internal applications. VPNs can only tunnel and encrypt traffic from a remote location to a corporate data center. Organizations that provide users with just a username and password to log into AnyConnect VPNs could be exposed to data breaches due to stolen credentials.

Attackers can steal user credentials using a variety of techniques, such as phishing and brute force. According to Verizon's 2018 Data Breach Investigations Report, 81 percent of hacking-related incidents used stolen or weak passwords. Once an attacker has access into the corporate network using AnyConnect VPN, they try to gain higher privileges and move to other systems, applications and servers. In more advanced cases, an attacker might install malware on internal systems to gain persistent backdoor access into the network.

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Duo is the most successful end-user facing solution I've ever been involved in deploying.”

Lance Honer

Manager of Cybersecurity, Day & Zimmerman



for Cisco AnyConnect VPN

THE SOLUTION:

Duo's Multi-Factor Authentication

Duo's MFA provides three distinct benefits for AnyConnect VPN users:

01

Easy to Use

Duo provides the easiest to use MFA solution for AnyConnect VPN logins. With Duo's MFA, users can validate their identities with one-tap authentication called Duo Push. MFA is an effective security control against stolen credentials because an attacker would not only need to compromise a user's credentials, but also get physical access to that user's device to execute an attack.

02

Flexible Authentication Options

Duo offers several methods of authentication to enable every user to easily access internal applications. Duo offers Duo Push, one-time passcodes (OTP), phone calls, SMS or hardware tokens with AnyConnect VPN. IT admins can enable one or more of these authentication options for users based on their environment and user convenience.

03

Stronger Security with Zero Trust

Duo with AnyConnect v4.6 or later on Cisco ASA can provide admins with insights into devices and their security posture. Admins can check for device health and enforce policies to allow access to internal applications only from secure and healthy devices. For example: admins can enforce a policy to allow VPN access only from a corporate-managed and up-to-date device.

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Ease of use is absolutely fantastic. Performance is very fast in combination with our Cisco AnyConnect remote access solution.”

William Turner

Senior Network Engineer, World Vision US
