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Firewall Application Using Packet Tracer

Abstract

The program simulates the design of a software engineering company, by making the model consist of two floors, an upper floor and a ground floor inside the building, and each floor has its own corridors and working part. We create a network for every lane The Cisco Adaptive Security Appliance (ASA) is an advanced network security appliance that integrates firewall, to create a firewall 5505VPN, and other capabilities.

This lab uses the ASA and protect an internal company network from outside hackers while allowing internal hosts to access the Internet. The ASA creates three security interfaces: outside, inside, and DMZ. It provides external users with limited access to the DMZ and no access to internal resources. Internal users can access the DMZ and external resources.

Then we connect all switches to the database, where network data is stored, which includes servers, switches and their communication tools. The network is linked with IP setting for each network component to make accessing the network parts easy and fast. After completing the network setup, we connected its parts to each other using the appropriate communication tools for the purpose of starting work on the network.

The software is built using Cisco packet tracer.