

Jonathan Humphrey

11/15/2022

Tao Hou

CS 4371.001

1. By using a VPN to change your IP address to one within California.
2. HSTS allows website owners to always use SSL/TCL encryption for all domains, if they opt in correctly
3. No, the bank website has a separate private and public key which cannot be used for domains under a different name.
4. Public keys are much harder to brute force hack, since the keys can be much longer and are computer generated.
5. Each hashing encryption needs to be decrypted individually. Each hash key is also stored in a restricted file space.
6. A DNS amplification attack is when an attacker takes control of a botnet or other DNS server which has a much higher bandwidth output potential. This allows the attacker to upgrade their attack's potency. The attack's potency is multiplied by however many devices are in the network being used to amplify.
7. TCP Middlebox Reflection abuses firewall filtering to reflect and amplify TCP traffic toward a targeted machine.