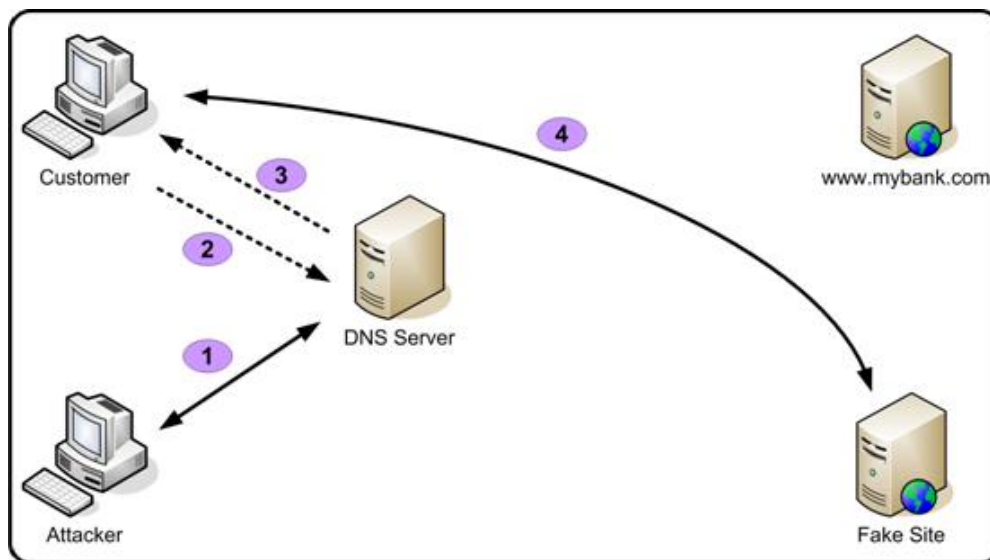


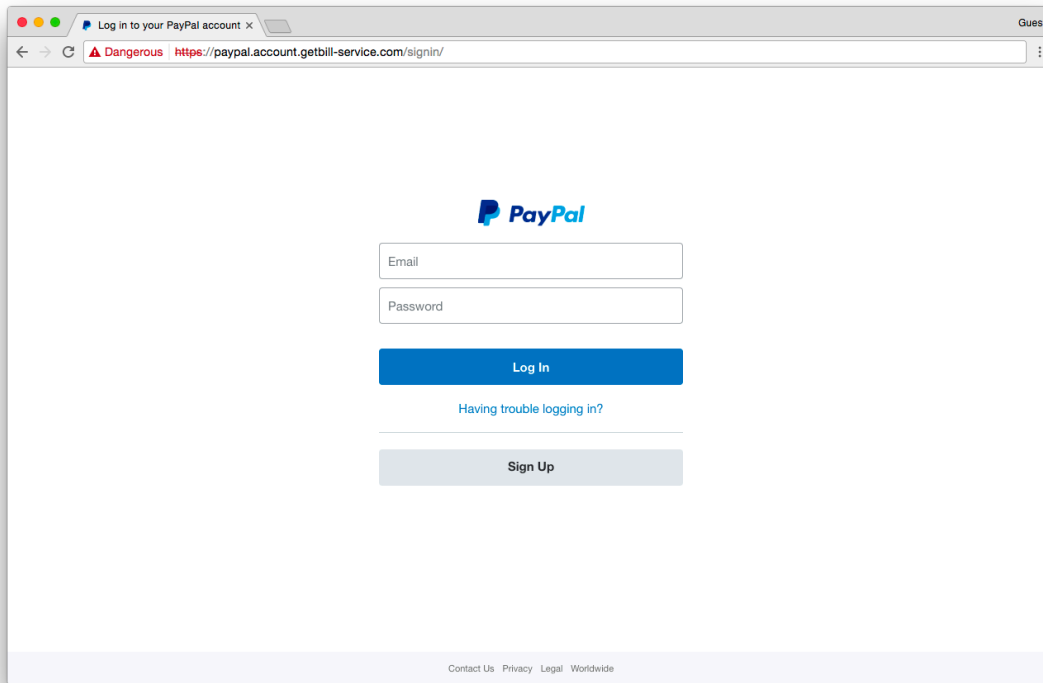
Security



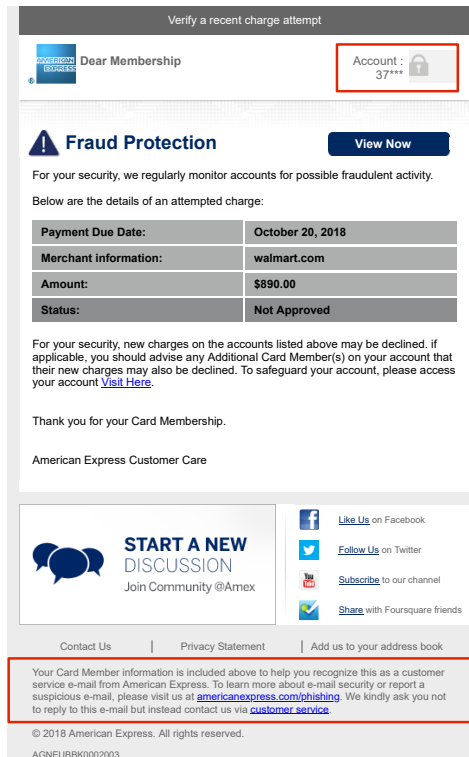
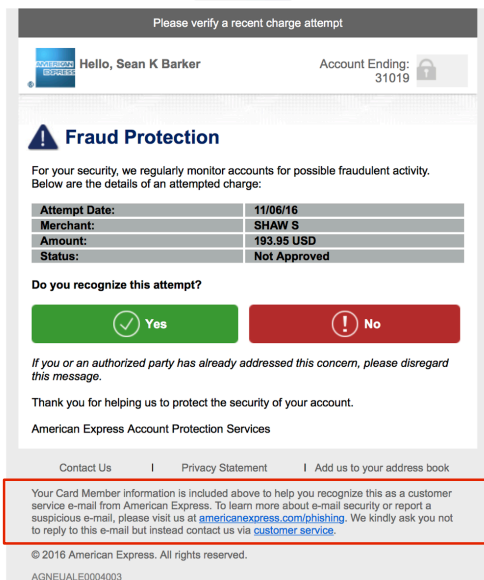
Pharming



Phishing



Phishing



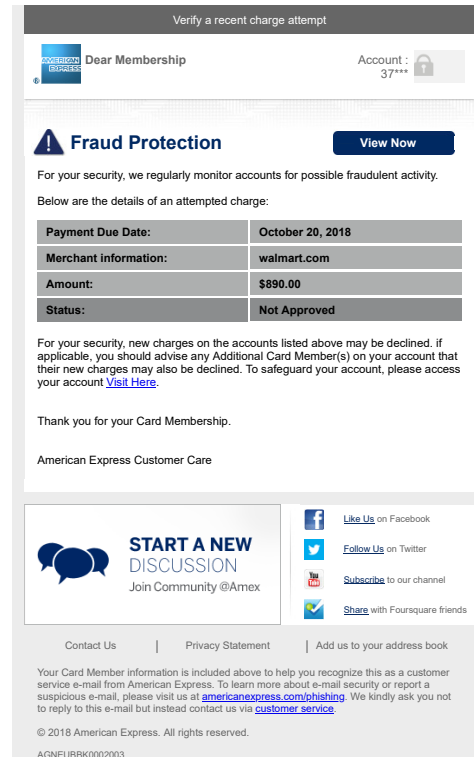
Phishing

From: American Express Online 10659

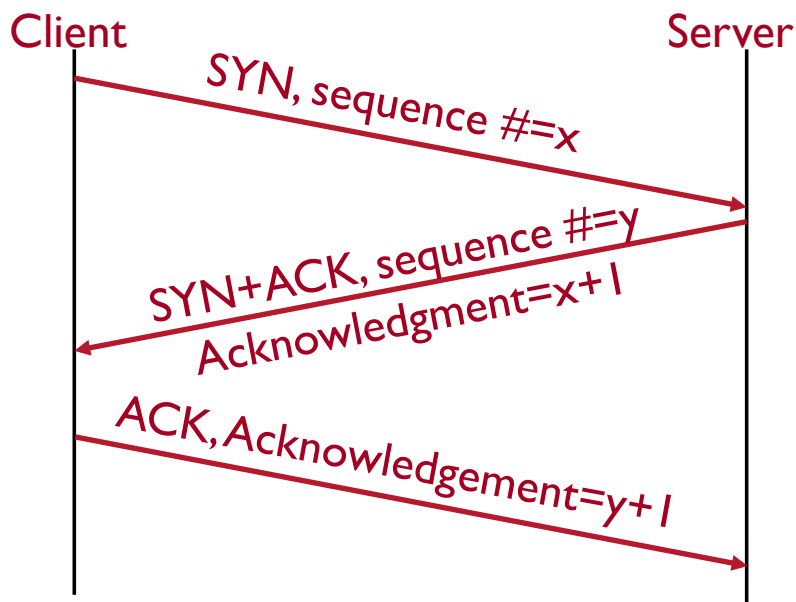
Subject: RE: Fraud Detection: Please view your recent activity and we'll help you take corrective action. ID0225840

Date: October 20, 2018 at 4:50:35 PM EDT

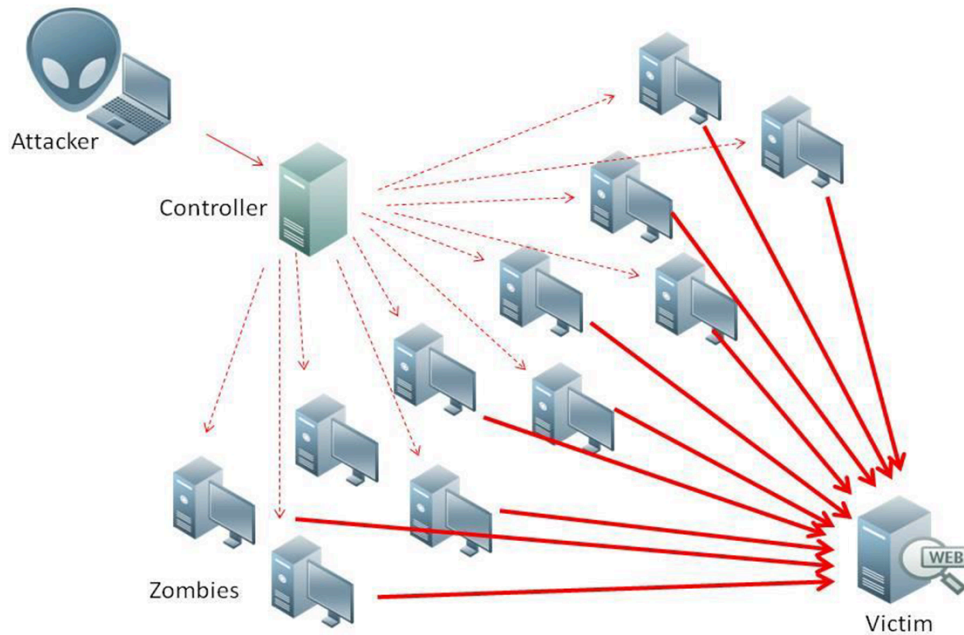
To: undisclosed-recipients;



TCP Three-Way Handshake



Distributed Denial of Service (DDoS)

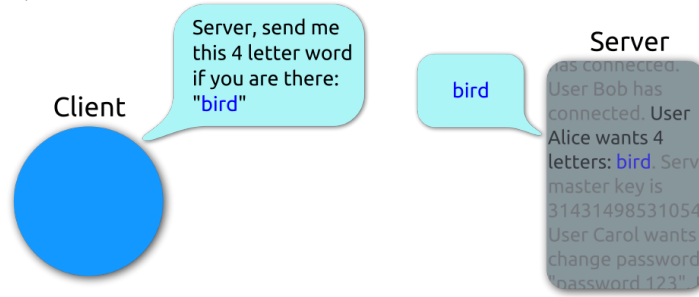


Botnet Resource Consumption

Attack	Resource Threshold	Requests/Bot	Bots needed to exhaust
Static HTTP GET	60,000/sec	93 requests/sec at 250 bytes/request	645
Dynamic HTTP GET	3,000/sec	93 requests/sec at 250 bytes/request	40
SSL Handshake	600/sec	10 requests/sec	60

Heartbleed (2014)

Heartbeat – Normal usage



Heartbeat – Malicious usage

