



PlayStation Network Breach

Robert Fera | April 18th, 2012



Overview

- Took place between April 17th and April 19th , 2011
- Information of 77 million users was compromised
- 10 million of the above 77 million had credit card numbers associated with them
- Due to an “external intrusion” – More on this later



Attack Timeline

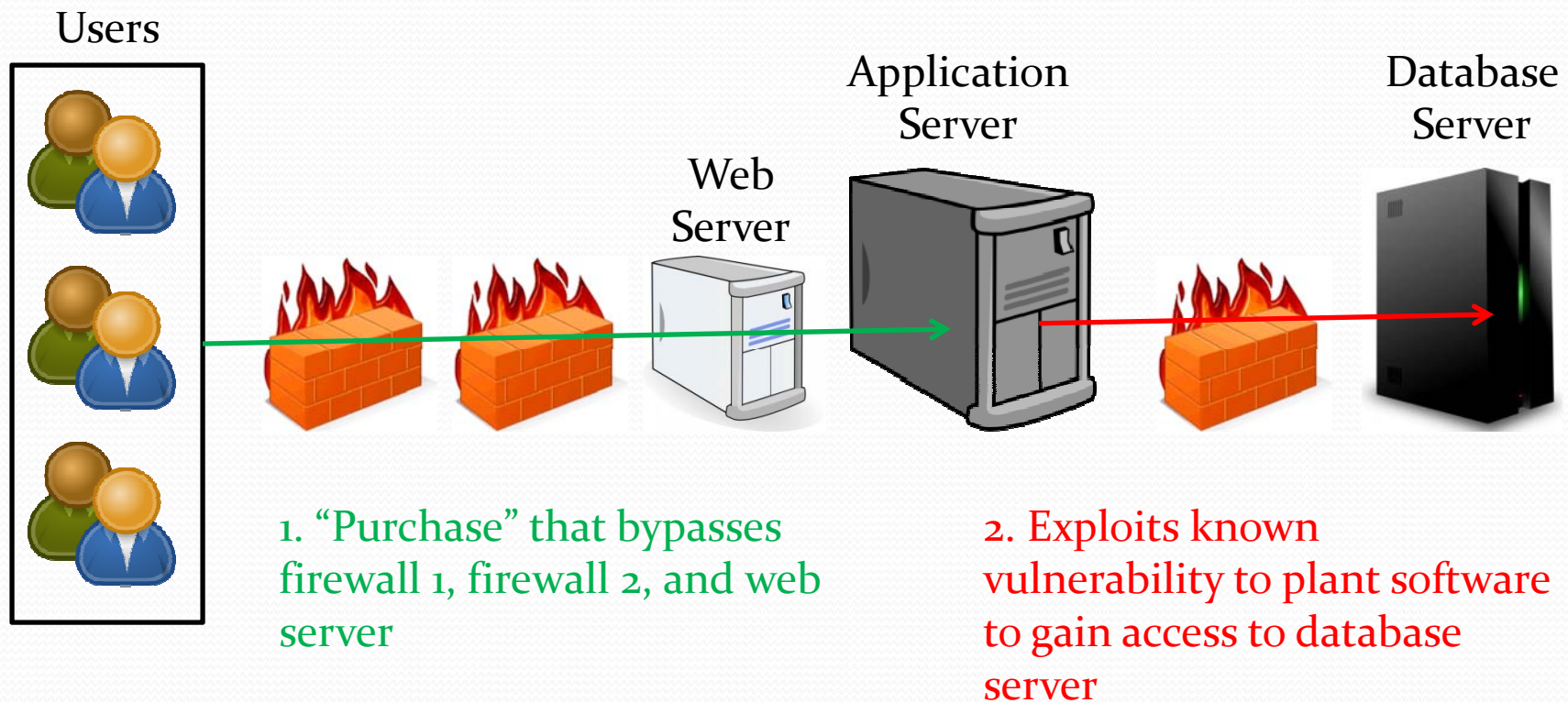
- Tuesday, April 19th – Sony learns that its PSN/Qriocity networks have been compromised, **yet does not announce anything**
- Wednesday, April 20th – Sony closes down the two networks, **yet does not disclose that the networks have been attacked**
- Friday, April 22nd – Sony reveals cause of the problems, an “external intrusion.” Anonymous makes statement that it wasn’t involved
- Monday, April 25th – Sony confirms a breach of consumer data has occurred, withholds making announcement
- Tuesday, April 26th – Sony releases most detailed statement of attacks + confirms that personal information was stolen



The attack

- Initial attack was disguised as a purchase, so no network security systems were alerted
- Launched from an application server that sits behind a web server + two firewalls on Sony's network
- Exploited a known vulnerability in application server to plant software that was used to access the database server, which sat behind the third firewall

The attack (cont.)





Information Stolen

- Name
- Address (city, state, zip)
- Country
- Email address
- Birthday
- PSN/Qriocity login + password [Encrypted via hash function]
- PSN online ID
- Profile Data, including
- Purchase history
- Billing address (city, state, zip)
- PSN/Qriocity password security answers
- **Credit Card Data (number + expiration date) [Encrypted]**



The aftermath: Sony's reaction

- Added automated software monitoring + configuration management, to help defend against new attacks
- Enhanced levels of data protection and encryption
- Enhanced ability to detect software intrusions within the network, unauthorized access and unusual activity patterns
- Implementation of additional firewalls

Questions? Comments?



(obligatory cat picture)



References

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- <http://blog.us.playstation.com/2011/04/26/update-on-playstation-network-and-qriocity/>
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