# A New Approach in Securing Crypto Exchanges

# ExchangeDefender™

**SpaceCycles LLC**
*Cyber Security Innovations*

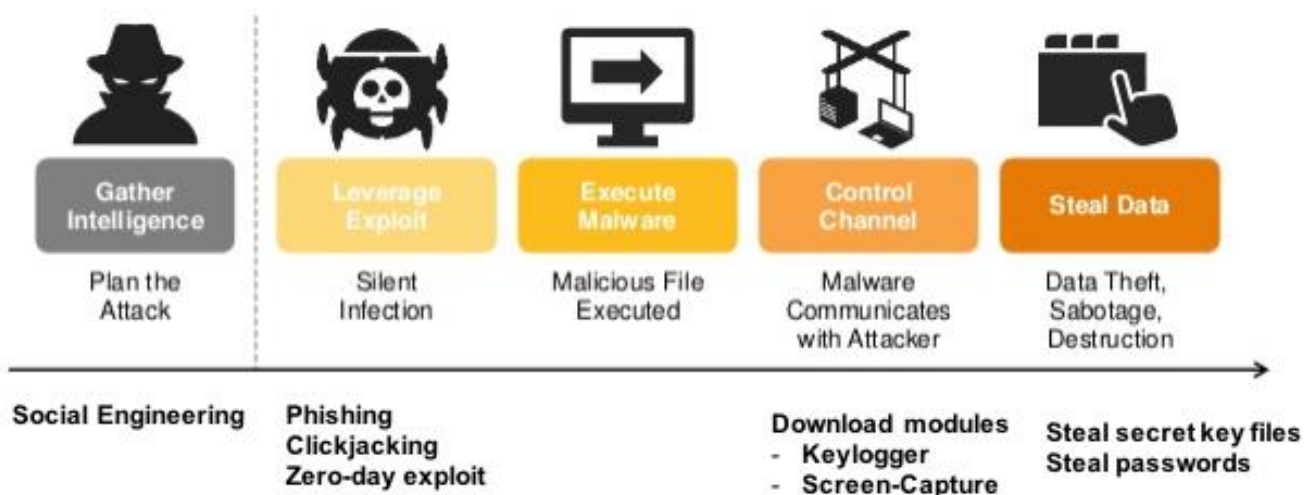## Are Crypto Exchanges safe from data breach?

Crypto exchanges have hot wallets and cold wallets. The wallets store user secret keys as well as the exchange's secret keys. Most of the keys are stored offline in vaults (cold wallet). A portion of the keys are stored on servers connected to the internet (hot wallet) to facilitate transactions. These servers are susceptible to a data breach just like any other hacker attack.

It takes a strict, multipronged approach to secure these crypto exchange environments.
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## SpaceCycles LLC is taking the lead in securing crypto exchanges.

ExchangeDefender™ offers the most comprehensive access control and policy enforcement layer for protecting the exchange's computers and mobile devices. ExchangeDefender™ is built on multi-patented and patent-pending technology and backed by 17+ years of delivering cutting- edge cyber security solutions.

## How Crypto Exchanges are hacked



| Gather Intelligence | Leverage Exploit | Execute Malware | Control Channel | Steal Data |
|---|---|---|---|---|
| Plan the Attack | Silent Infection | Malicious File Executed | Malware Communicates with Attacker | Data Theft, Sabotage, Destruction |

Social Engineering

Phishing
Clickjacking
Zero-day exploit

Download modules
- Keylogger
- Screen-Capture

Steal secret key files
Steal passwords

Learn more about how BlockSafe is securing the future of crypto wallets and the entire blockchain ecosystem at: www.spacecycles.net/exchangedefender

# ExchangeDefender™ delivers comprehensive security for the exchange's computers and mobile devices.

ExchangeDefender™ comprises two products to protect the internal systems of the crypto exchange. These are – CryptoDefender™ (described earlier) and ProtectID®. ™protects the exchange's computers and mobile devices from keylogging, screen capture and clickjack attacks. ProtectID® secures access to the internal systems via two factor out-of-band authentication. The ProtectID® system is shown below –

## ProtectID® System
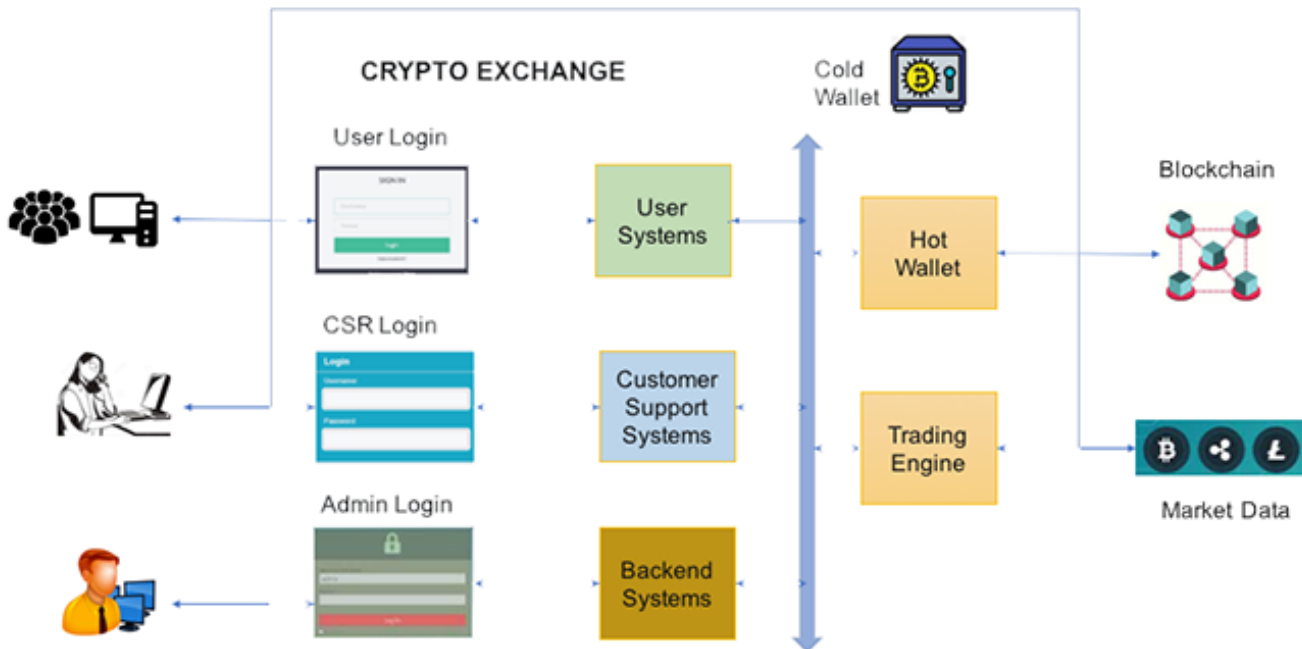## Authentication methods include:

- Out-of-Band – #, PIN, OTP, Voice

- OTP Delivery to Phone via SMS, Voice, Email, and/or Push

- Out-of-Band Push – Accept/Deny, PIN, and/or Fingerprint

- Hard Tokens – Key Fob, USB Key, and/or Wallet Cards

- Mobile Tokens – iOS, Android

- Desktop Tokens – PC/Mac/Linux

*Study Case*
## ExchangeDefender™ Use Case

A typical crypto exchange architecture is shown below -



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