

# RANSOMWARE

The growth of ransomware and what businesses can do to protect themselves

Ara Aslanian  
Inverselogic, Inc



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What We Do.

Technology Consulting

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Cyber Security

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## Current SMB Risk Factors

1. CEO/CFO Wire Fraud
2. DOXware
3. Ransomware





As of April 2016 the FBI estimates CEO/CFO e-mail scams have cost organizations more than \$2.3 billion in losses over the past three years.

Request - Message (HTML)

File Message

Ignore X Delete Reply Reply All Forward Respond Quick Steps Move Mark Unread Categorize Follow Up Tags Translate Editing Zoom Report Phishing PhishMe

This message was sent with High importance.

From: Rohyt Belani <rohyt.belani@phishme.com> Sent: Wed 9/16/2015 12:08 PM  
To: Samuel Hahn  
Cc:  
Subject: Request

Hi,

Are you busy ? i need you to process a wire transfer for me today. Let me know when you are free so that i can send the beneficiary's details.

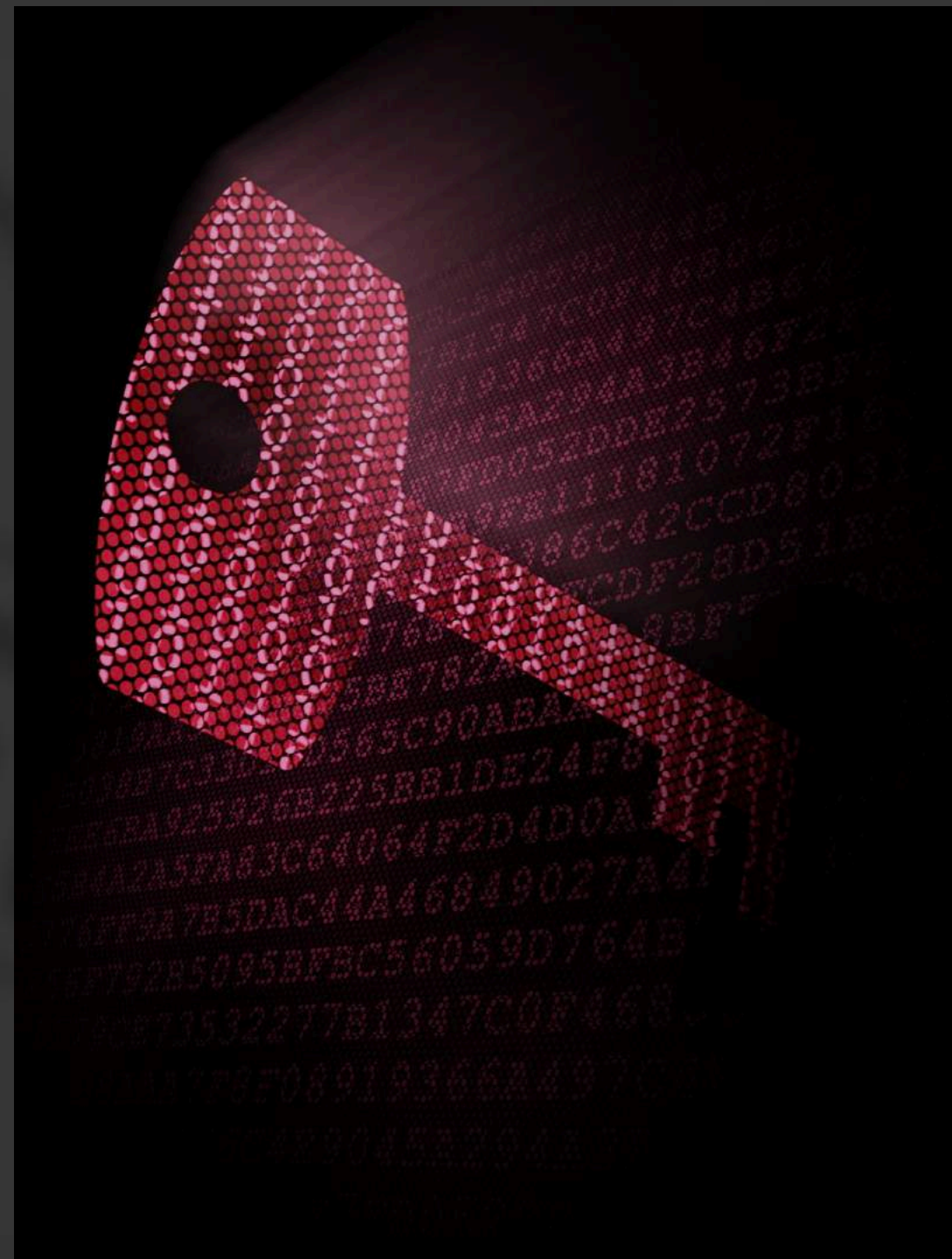
Thanks  
Sent from my iPhone

## Doxware

Attacks involve Small  
Amounts of Data

Currently Less Common

Leaks Sensitive Files



Ransomware is now the #1 security concern for SMB's and organizations

2015 - \$395 Million

2016 - Over \$1 Billion

90% of All Spam Includes Ransomware





in:spam



a



Delete forever

Not spam



More

3 of 507



Wellsfargo Bank <mail@mail.com>

to Recipients

7:21 AM (2 hours ago)



Be careful with this message. Our systems couldn't verify that this message was really sent by mail.com. You might want to avoid clicking links or replying with personal information. [Learn more](#)

Wells  
Fargo

[wellsfargo.com](https://wellsfargo.com)

## Online Banking Security Alert!!!

Dear Customer,

Wells Fargo has been receiving complaints for un-authorized use of Wells Fargo Online accounts. As a result to this, we are making an extra security check on all our Customers Account. In order to protect your informations you are requested to confirm your details for the safety of your Accounts. [Sign On](#) and verify your informations.

If you have questions about your account, please contact Wells Fargo Customer Service. Sign on to secure your Account..

[wellsfargo.com](https://wellsfargo.com) | [Fraud Information Center](#)



## Your personal files are encrypted!



Private key will be destroyed on  
10/9/2013  
4:25 PM

Time left  
**95 : 56 : 35**

Your important files **encryption** produced on this computer: photos, videos, documents, etc. [Here](#) is a complete list of encrypted files, and you can personally verify this.

Encryption was produced using a **unique** public key [RSA-2048](#) generated for this computer. To decrypt files you need to obtain the **private key**.

The **single copy** of the private key, which will allow you to decrypt the files, located on a secret server on the Internet; the server will **destroy** the key after a time specified in this window. After that, **nobody and never will be able** to restore files...

**To obtain** the private key for this computer, which will automatically decrypt files, you need to pay **300 USD / 300 EUR / similar amount in another currency**.

Click «Next» to select the method of payment and the currency.

**Any attempt to remove or damage this software will lead to the immediate destruction of the private key by server.**

Next >>

# YOUR FILES ARE LOCKED

- Penetration and Encryption (Files & Servers)
- Request for Ransom
- You have a Time Limit
- The Bitcoin Nightmare
- To Pay or Not to Pay?
- The Hidden Cost After Recovery

**ALL FILES  
ENCRYPTED**



## RaaS - Ransomware as service

Pay a Fee and Infect

Deploy on Known  
Organization

Share the Profits



# Small Businesses Struggle to Stay Protected

- No Formal Managed Service Provider
- Insufficient or No Backup and DR Solution
- Local Backup vs. Offsite Backup
- High Cost of Security Solutions
- High Learning Curve

# How to Stay Protected

Educate Users

Back Up Data & Servers  
(Onsite and Off-Site)

Cyber Insurance

Spam & Content Filter

Stay Current

Antivirus & Malware

Have a DR Plan

Current Generation Firewall

Test Users & Systems

Update & Patch





All-In-One Solution  
on a Proven Platform

File/Data and  
Image Backups



Local & Cloud Storage  
with Version Control



Cost Effective  
for SMBs



No Costly Hardware  
or Software Licensing

Easy to Deploy  
and Manage



THANK YOU!

818-542-3103

[ara@inverselogic.com](mailto:ara@inverselogic.com)

Read Our Cybersecurity & Email Security Guides  
at [inverselogic.com](https://inverselogic.com)

