



MISSOURI
CYBER SECURITY

Presentation for SHRMC
Theresa Frommel
Network Security Analyst
Office of Cyber Security
June 11, 2015

Office of Cyber Security

Overview of Staff

- 6 analysts -security operations center
 - Incident Response
 - Rotating roles
- 1 analyst – audit and compliance
 - Soon to be 2 analysts
- CISO



Office of Cyber Security

Overview of Services

- End User Awareness
- Vulnerability Scans
- Intrusion Prevention System
- Advanced Malware for Web
- Advanced Malware for Email

Office of Cyber Security

Overview of Services

- Advanced Malware for Endpoint
- Websense
- Network Access Control
- Audit/Compliance

Security Awareness Training

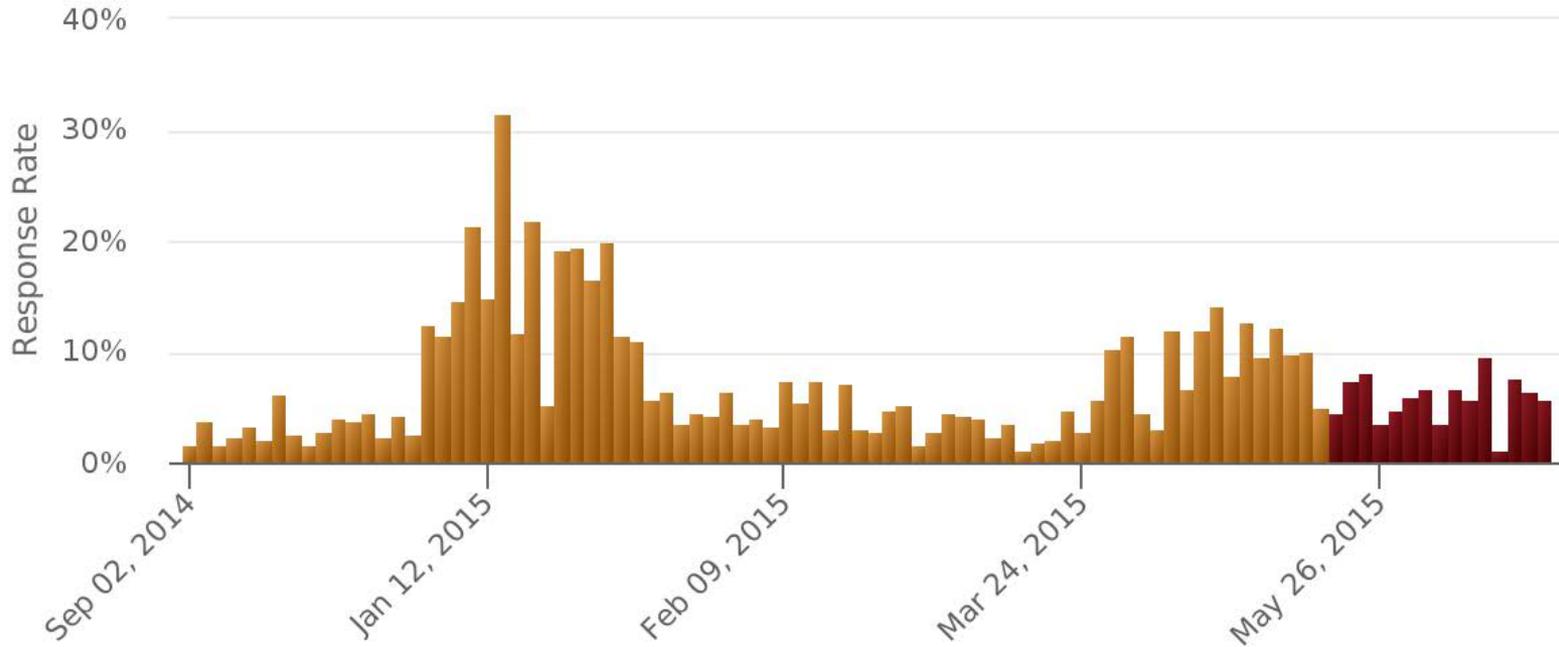


Security Awareness Assessment

PHISHME

Security Awareness Assessment

Overall Responses Over Time



Security Awareness Assessment

From: esave [esave@nr-rewards.com]  Sent: Wed 6/10/2015
To: Frommel, Theresa
Cc:
Subject: Missourians Saving Energy and Money on Earth Day

This is a TEST EMAIL for PhishMe Scenario (109): "For Test Email". Please note that you may click the phishing link below without affecting your reporting results.

Missourians Saving Energy and Money on Earth Day

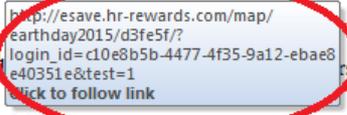
Did you know...

Energy-efficient light bulbs, like CFLs and LEDs, use about 75% less energy than incandescent light bulbs. Upgrading your lighting will help keep your energy usage down and your monthly bills low.

Go Green, Save Green....

Let us help you with the cost of installing more efficient lighting. Thanks to a partnership with the American Energy Association, Missourians can save even more money on Earth Day when you purchase your light bulbs at participating Missouri retailers on April 22nd 2015. The light bulb discount reduces the cost by up to \$2.25 on CFLs and up to \$6.75 on LEDs.

Where to Save Green....

View a map or download the  (sorted by city) in order to save energy and money on Earth Day 2015.

[Participating Missouri Retailer Map](#)

[Participating Missouri Retailer List \(sorted by City\)](#)

Security Awareness Assessment

From: Secure File Shares <moadmin@securefileshares.com>
Subject: Your contact has shared a folder with you!

Your contact has shared a folder with you!



Your contact **moadmin** has shared a folder with you.
To confirm access and notify your contact of the receipt of this folder, please click on the link to your right.

[Click Here!](#)

Security Awareness Assessment



Multiple Emails? One Login!

As part of our enterprise offering, you can now log in directly with your workplace email account. Log in below to access the folder(s) that has been shared with you.

All images and logos copyright © Secure File Shares. Redistribution of images is strictly prohibited and will be prosecuted to the fullest extent of the law.

Security Awareness Assessment



ATTENTION: This was an authorized phishing training exercise. If you ever suspect an email to be a phishing attack, or have any questions or feedback related to this exercise, please contact:
cyber.security@oa.mo.gov

How emails can be dangerous.

"91% of targeted attacks involve spear-phishing emails." -

TrendMicro

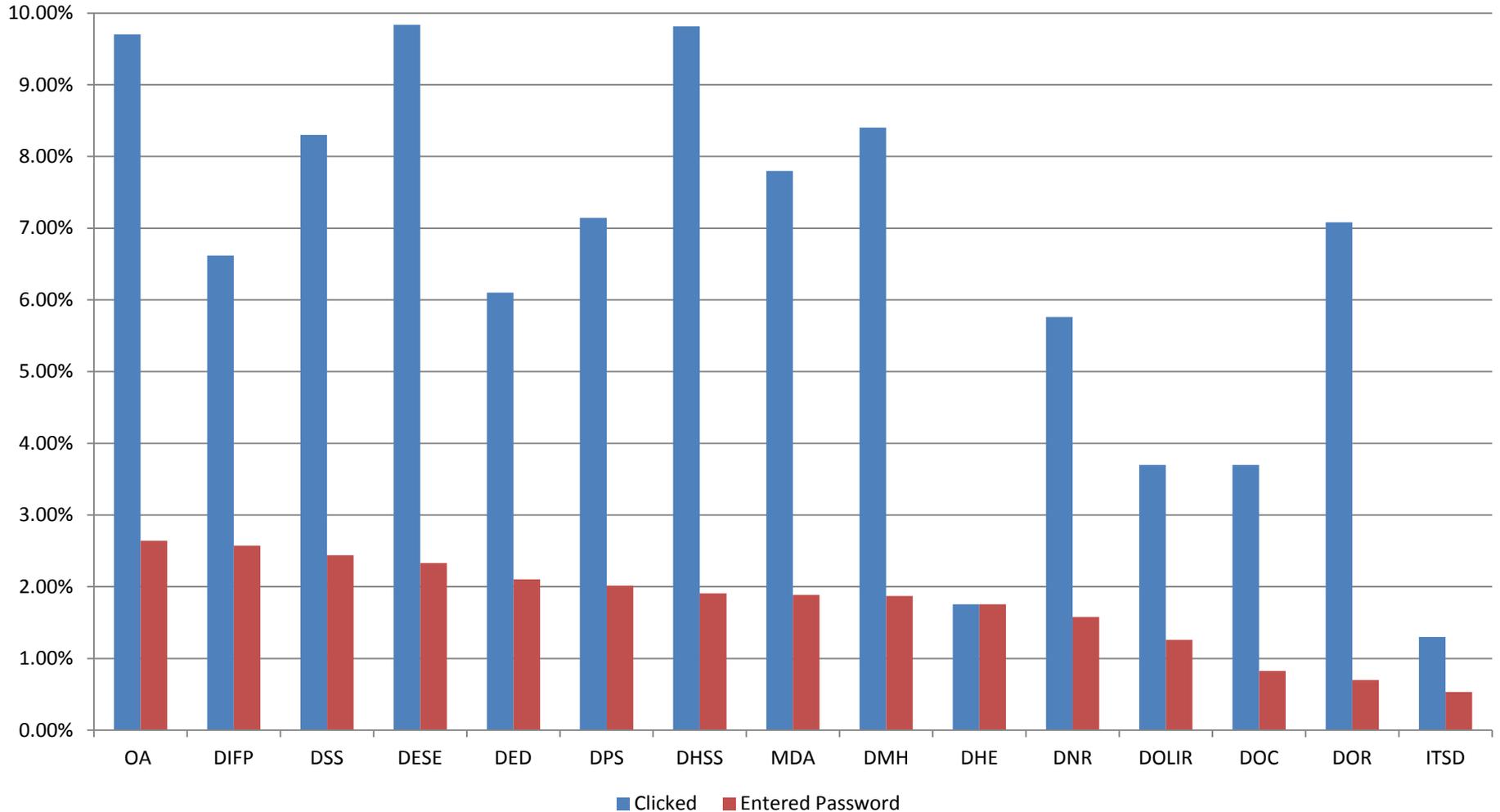
Spear-phishers use email to:

1. Deliver file attachments that can infect your computer with malware.
2. Entice you to click on links that take you to web sites that will infect your computer with malware just by visiting it.
3. Trick you into handing over your user credentials so that they can gain access to your network or other sites.



Just because you don't work in IT or aren't a part of the management team doesn't mean phishers will ignore you. Every user **will** be targeted at some point.

Security Awareness Assessment

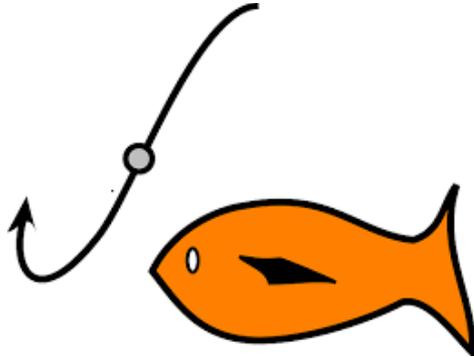


Content Filtering

websense[®]

- In the last 30 days.....
 - Permitted sites = 511,725,255
 - Blocked sites = 43,062,585
 - Access requests = 384
 - .000892% of blocked requests are reported to us for review or access

Current Trends



Portal.cybersecurity.mo.gov

Home	Malware	Vulnerabilities	Threat Actors	Campaigns	External News	OCS News
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Latest Updates

[Apple vulnerability could allow firmware modifications, researcher says](#)

A zero-day software vulnerability in the firmware of older Apple computers could be used to slip hard-to-remove malware onto a computer, according to a security researcher.

[Read Story](#)

Posted under [External News](#) on June 1st, 2015 2:46 PM

[Home Routers Being Targeted in DNS Hijacking Attack, Trend Micro Says](#)

Attackers attempting to steal sensitive data by diverting home router traffic to malicious domains, security firm says.

[Read Story](#)

Posted under [External News](#) on June 1st, 2015 2:35 PM

[Hackers Steal Over a Million Japanese Citizens' Personal Data in Targeted Attack](#)

Approximately 1.25 million personal records were compromised by hackers in a recent targeted attack, confirmed the organization that manages Japan's universal public pension system.

[Read Story](#)

Posted under [External News](#) on June 1st, 2015 2:26 PM

[report20520159260\[1\].doc 2015060102](#)

This morning starting at around 3:04 AM, an email message purporting to be a report was sent to over 215 State employees.

Search Portal

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Intel Feeds

- [Malware Watchlist \(updated hourly\)](#)
- [IP Address Watchlist \(updated hourly\)](#)

RSS Feeds

- [Portal Updates \(except OCS News\)](#)
- [OCS News](#)

Contact Us

- cyber.security@oa.mo.gov
- 573-751-3290
- 301 W High Street, Jefferson City, MO, 65101

Security is EVERYONE's responsibility

- What can we do with technology?
 - What we can't we do?
- What you can do
 - Think before you click
 - Websites
 - Email
 - Contact us!
 - Cyber.security@oa.mo.gov



Security is EVERYONE's responsibility

- Protect State data
 - Don't use personal email for State business
 - Watch for HTTPS if required to submit online
 - Don't bring in external drives
- Protect Yourself
 - Work email and systems are **SUNSHINEABLE!**



Cyber Security Resources

- <https://cybersecurity.mo.gov>
 - Secure at work
 - Secure at home
 - Security tools
- <https://more.net/support/security-awareness>

