SOCK PUPPET COBBLER

Mariel Klosterman

OVERVIEW

- Defining Sock Puppets
 - Definitions
 - What They Are
 - Two Main Uses
 - Why Do You Care?
- Creating a Sock Puppet
 - Factors To Consider
 - Account Types
 - Layers of Separation
 - Not Getting Burned



ABOUT

- Mariel Klosterman
- Student at Dakota State University
 - Network & Security Administration, B.S.
- Other projects
 - Cyber Community Club (CX3) Outreach project geared towards middle school/high school students in the Midwest
- Hobbies
 - Ultimate frisbee and video games



DEFINING SOCK PUPPETS



DEFINITIONS

- Why Sock Puppet Cobbler?
 - Cobbler (spy terms) A forger of identity documents.
 - Or someone who fixes shoes
- Puppeteer A person who creates sock puppet accounts for either benign or malicious purposes.
- Malicious actor Someone who, through any means, threatens or attempts to threaten the security of an individual or company for malicious purposes.
- Disinformation False or misleading information that is spread deliberately to deceive.

WHAT THEY ARE

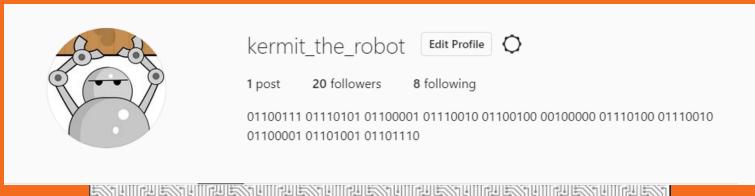
- Alternative accounts on social platforms in order to either collect or disperse information.
- Why are they used?
 - Propaganda
 - Algorithms and trackers rat you out
 - Distance between you and your target

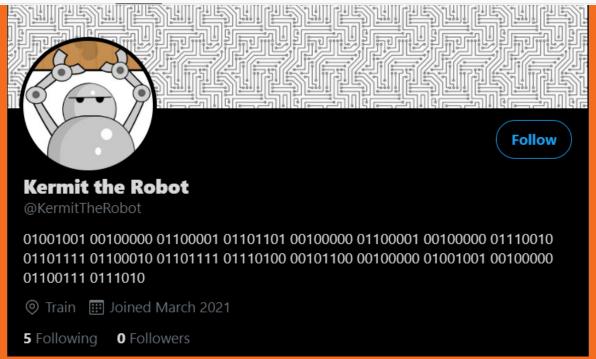


TWO MAIN USES

- Spreading information
 - Propaganda
 - Disinformation
- Collecting information
 - For passive reconnaissance (open-source intelligence)
 - For active reconnaissance (human intelligence)

EXAMPLE SOCK PUPPET





WHY DO YOU CARE?

REPUTATION RISK MANAGEMENT

- Product reviews
- Store or business reviews
- Comments or posts intended to harm business

RECONNAISSANCE & EXPLOITATION

- Personal information
- Convincing spear-phishing

SIMPLE SPEAR-PHISHING EXAMPLE

SCRAPE SOCIAL MEDIA AND WEBSITE

EMAIL BLAST

SPEAR-PHISHING







PHISHING EMAIL

Mariel

kindly re-confirm your cell #, I need a task done ASAP and look forward to my text.

Thanks

CISA ALERT

Threat Actors Targeting Cybersecurity Researchers

Original release date: April 14, 2021



Googled and Microsoftd recently published reports on advanced persistent threat (APT) actors targeting cybersecurity researchers. The APT actors are using fake social media profiles and legitimate-looking websites to lure security researchers into visiting malicious websites to steal information, including exploits and zero-day vulnerabilities. APT groups often use elaborate social engineering and spear phishing schemes to trick victims into running malicious code through malicious links and websites.

CISA recommends cybersecurity practitioners to guard against this specific APT activity and review the following reports for more information:

- Google Update on campaign targeting security researchers

 published March 31, 2021
- Microsoft ZINC attacks against security researchers

 published January 28, 2021
- Google New campaign targeting security researchers

 ¬ published January 25, 2021
- CISA Tip Avoiding social engineering and phishing attacks, updated August 25, 2020

Additionally, CISA strongly encourages cybersecurity practitioners use sandbox environments that are isolated from trusted systems or networks when examining untrusted code or websites.





SECURIELITE

PENTESTS

The service includes software penetration tests and network penetration tests.



ASSESSMENTS

The service performs software and host security assessments mainly using code auditing.



EXPLOITS

The service offers exploits for various software products and operating systems.

RECENT EXAMPLE



Piper Webster

Security reseacher

Kyiv, Kyiv City, Ukraine · 87 connections



Carter Edwards

Human Resources Director at Trend Macro

Langensteinbach, Baden-Württemberg, Germany · 438

RECENT EXAMPLE





BS0D & Cr4sh

@alexjoe9983

Windows/Mac/Browser hacker & vulnerability researcher

Joined January 2021

229 Following 24 Followers

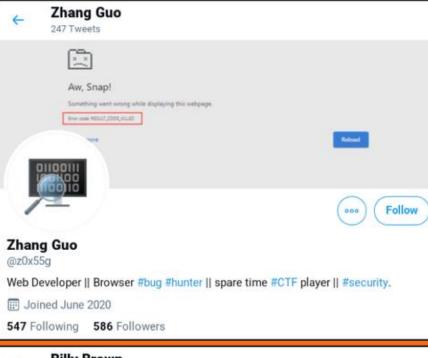
Osman Demir

@osm4nd

Founder & CEO of @SecuriElite

(in Istanbul, Turkey is Joined February 2021)

150 Following 1 Follower











Marcella Flores

Cuando suena la melodía, los pasos se mueven, el corazón canta y el espíritu comienza a bailar

Friends

Photos

Videos

About

Work



Aerobics Instructor at The Harbour Health Club Liverpool

June 2, 2013 - Present · Liverpool

In the heart of Liverpool city centre, The Harbour Health Club Liverpool offers customer with everything you would want from a health club. In the gym you will find a variety of cardiovascular machines including treadmills, bikes, steppers, cross trainers and rowers. I be glad to visit u soon.

College



Studied at University of Liverpool

Class of 2012

Bachelor's degree at university of Liverpool in Health science

High School



Went to Stucom

Others Named Marcella Flores

See More

Others With a Similar Name



Azi Flores



Jorge Butler Flores

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CREATING A SOCK PUPPET



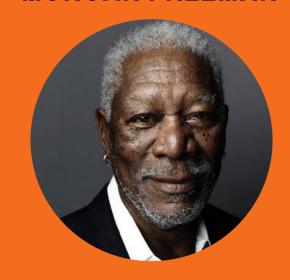
FACTORS TO CONSIDER

- Anonymity vs. Privacy
 - Not the same thing
- Anonymity When you cannot be linked to the account no matter how deep someone looks for the link.
- Persistence When you want to be active on the platform.
- Throwaway vs. persistent accounts



ACCOUNT TYPES

MORGAN FREEMAN



Persona

Typically a single person.

SWIFT ON SECURITY



Avatar Usually based around an idea.

LAYERS OF SEPARATION

- Dedicated computer
- Virtual machine (VM)
- Email address
- Virtual private network (VPN)
- "Burner" phone
- Remove these items or add others



MY SIMPLE SETUP

1. Creation

- 1. Set up computer
- 2. Create Profile Document
- 3. Virtual machine
 - 1. Time zone, location
- 4. Email address
- 5. Social Media
 - 1. Profile picture
 - 2. Banner
 - 3. Description

2. Aging

- 1. Log in around the same time
- 2. Like/follow/share

First Middle Last

Short bio (optional)

Personally Identifiable Information

Full Name:

Meaning of name/s:

Nickname/s:

SSN:

Birth date:

Age:

Gender:

Height:

Weight:

Blood type:

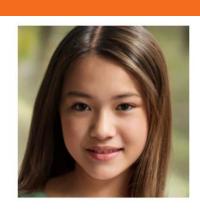
Street address:

Vehicle:

Contact Info

Email address:

Phone number:



PROFILE TEMPLATE

NOT GETTING BURNED



Trolls are more likely to

- Post on controversial topics
- Have no profile picture, or ones that look generated
- Be new with no followers or friends



Legitimate users usually

- Scroll through and look at posts
- Login at regular times
- Have a few followers/friends

TAKEAWAYS

- Sock puppets can be used for malicious purposes
 - Spear-phishing and exploitation
 - Negative comments, bad reviews
- Also used for
 - Investigating suspects
 - Verifying identity
- Train your company to be aware of what sock puppets can do and report suspicious behavior
 - 000 email policies
 - Social media audit



EXAMPLE AUTO-RESPONDER

Dear Friends, Clients and Colleagues,

Sadly, due to deadlines, I am unable to read or respond to most email. Please don't be offended, as this is true even for close friends.

I check email twice daily at midday and 4:00 PM UTC Monday-Friday. I respond to urgent email at those times and endeavor to respond to all other email on Fridays.

QUESTIONS?

WANT TO CONNECT WITH ME?

LINKEDIN

@MarielKlosterman

EMAIL ADDRESS

mlklos@protonmail.com

PROJECT PAGE

AgentSandstone.com/Project/Sock-Puppet-Cobbler