LAB REPORT

Valentine's Day Assignment

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Northern Virginia Community College

ITN 262 01YA

Prof. "Michael" Hon

December 4, 2023

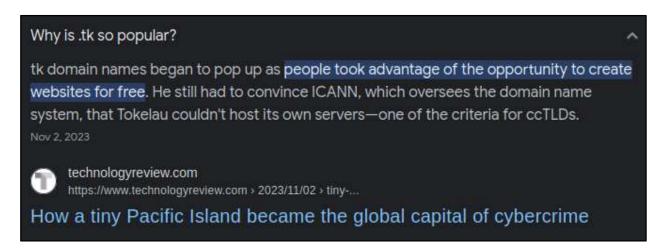
- A summary of what happened. Be sure to include the affected employee's name and position in the company.
 - A. Malware was detected. Command and Control activity as well as redirection attacks.

```
{severity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Data Exfil" ... +6}, flow_id: 20778540001552
{severity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Data Exfil" ... +6}, flow_id: 866168553800746
{severity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon - URI Struct M1 (_2B)" ... +6}, flow_id
{severity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon - URI Struct M2 (_2F)" ... +6}, flow_id
{severity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon - URI Struct M1 (_2B)" ... +6}, flow_id
{severity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon" ... +6}, flow_id: 866168553800746 (u
{severity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon - URI Struct M1 (_2B)" ... +6 }, flow_id
everity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Data Exfil" ...+6}, flow_id: 502610302054305 (u
everity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon - URI Struct M1 (_2B)" ...+6}, flow_id: 50
everity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon 4" ... +6 }, flow_id: 502610302054305 (uin
everity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon" ... +6}, flow_id: 502610302054305 (uint
everity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Data Exfil" ... +6}, flow_id: 1866434209222994 (
everity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon 4" ...+6}, flow_id: 1866434209222994 (u
everity: 1 (uint16), signature: "ET MALWARE Ursnif Variant CnC Beacon" ...+6}, flow_id: 1866434209222994 (uin
severity: 1 (uint16), signature: "ET HUNTING SUSPICIOUS Firesale gTLD IE Flash request to set non-standard fil
erity: 1 (uint16), signature: "ET EXPLOIT_KIT Possible Evil Redirector Leading to EK Nov 09 2015 M2" ... +6}, flow
erity: 1 (uint16), signature: "ET EXPLOIT_KIT Possible Evil Redirector Leading to EK Nov 09 2015 M1" ... +6}, flov
erity: 1 (uint16), signature: "ET POLICY Outdated Flash Version M1" ... +6}, flow_id: 1628291156437192 (uint64)
{severity: 1 (uint16), signature: "ET EXPLOIT_KIT EITest Evil Redirect Leading to EK Feb 01 2016" ... +6}, flow_ic
```

B. Suspicious domains were connected to flagged as likely hostile.

src_ip	src_port	dest_ip	dest_port	vlan	proto	app_proto	alert
10.41.245.114	49890	10.2.41.7	53	null	UDP	dns	> {severity: 2, signature: ET DNS Query to a *.pw domain - Likely Hostile +6}
10.41.245.114	49258	85.93.0.32	80	null	TCP	http	> {severity: 2, signature: ET POLICY HTTP Request to a *.tk domain+6}
10.41.245.114	49257	85.93.0.32	80	null	TCP	http	> {severity: 2, signature: ET POLICY HTTP Request to a *.tk domain +6}
10.41.245.114	61377	10.2.41.7	53	null	UDP	dns	> {severity: 2, signature: ET DNS Query to a .tk domain - Likely Hostile +6}

C. Google:



DOMAIN NAME NEWS

A BLACK EYE FOR THE .PW DOMAIN EXTENSION

May 5, 2013

Spammers descended on the .PW extension after it was recently made available for registration by the general public.

.PW is the country code top-level domain (ccTLD) for Palau, an island nation located in the western Pacific Ocean with a population of around 21,000 people spread out over 250 islands.

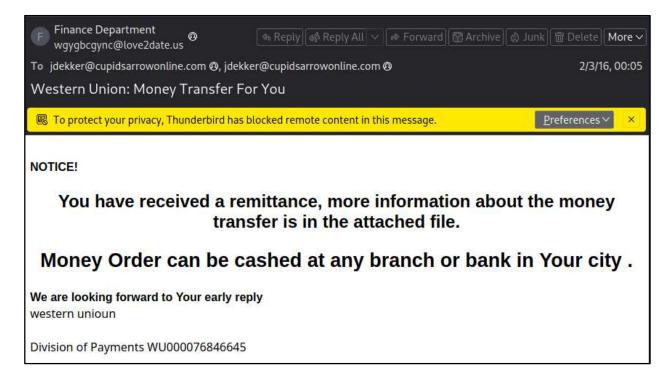
D. 10.41.245.114 is the Hostname Dekker-PC



E. Employee: Justini H. Dekker, Finance Director

XXXXII DOGGIOTI EI	500000000000000000000000000000000000000		500000000000000000000000000000000000000	000 1202	
8 Dekker, Justini H.	justini.dekker	Finance Director	jdekker@cupidsarrowonline.com	555-5189	

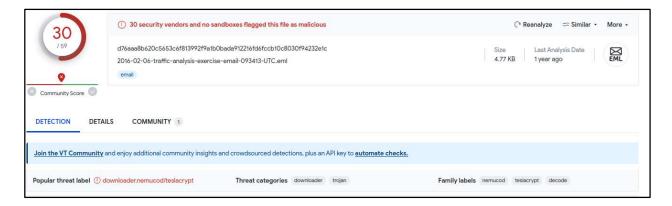
F. Suspicious e-mail regarding Western Union, but not from Western Union



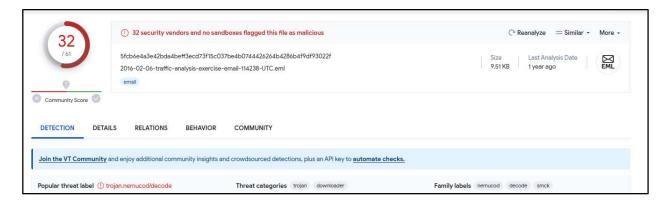
G. This email contains a trojan: 2016-02-06-traffic-analysis-exercise-email-092704-UTC



H. This email contains cryptomalware: 2016-02-06-traffic-analysis-exercise-email-093413-UTC



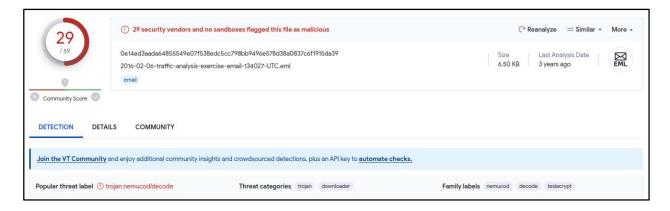
 This email contains a trojan: 2016-02-06-traffic-analysis-exercise-email-114238-UTC



J. This email contains a trojan: 2016-02-06-traffic-analysis-exercise-email-133037-UTC



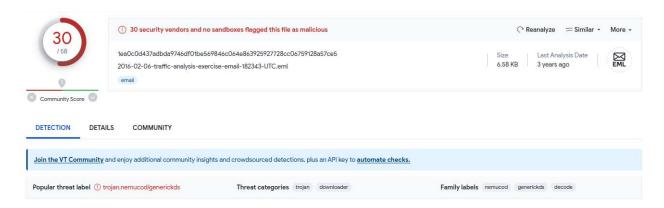
K. This email contains a trojan: 2016-02-06-traffic-analysis-exercise-email-134027-UTC



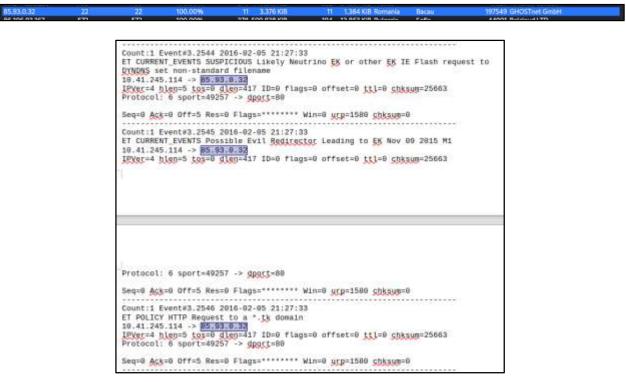
L. This email contains malware: 2016-02-06-traffic-analysis-exercise-email-182342-UTC

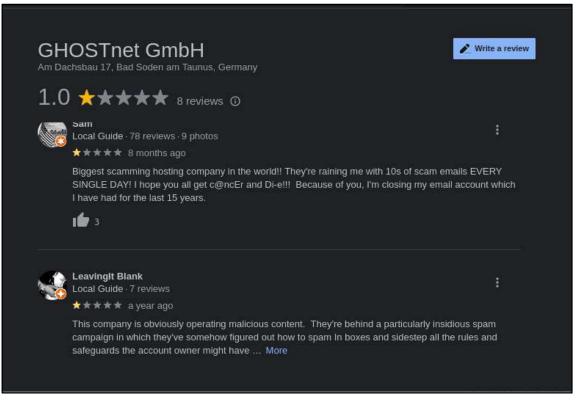


M. This email contains a trojan: 2016-02-06-traffic-analysis-exercise-email-182343-UTC



N. 85.93.0.32 is either an infected site or malicious (likely malicious).

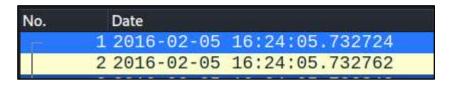




 O. 41.2.41.7 is likely malicious. Trying to hide the actual domains by using deceptive subdomains. Multiple suspicious domains.



- II. Date and time of the activity.
 - A. February 5, 2016 from 16:24 to 16:36



- - -

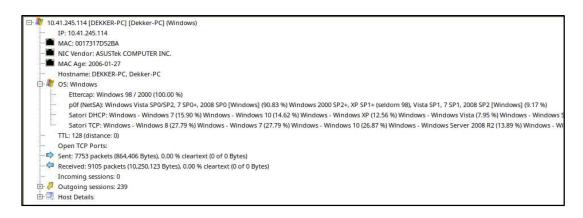
16857 2016-02-05 16:36:42.270268 16858 2016-02-05 16:36:45.374728

- III. IP address, MAC address, and host name of the computer that was involved.
 - A. Victim: Dekker-PC

IP: 10.41.245.114

MAC: 0017317D52BA

Hostname: Dekker-PC



- IV. A conclusion with recommendations for any follow-up actions, if required.
 - A. FLASH is vulnerable. Uninstall.

```
(uint16), signature: "ET POLICY Outdated Flash Version M1" ... +6}, flow_id: 1628291156
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- B. Implement mandatory IT training for employees, including paying attention to links that have sneaky domains/subdomains that are trying to misdirect people.
- C. Implement an email filter that blocks suspicious emails from known bad addresses, or that are flagged by anti-virus/malware, Suricata, or Snort alerts so that the emails are never even delivered.