KEAMANAN DATA YANG

Arisan Security

DISIMPAN OLEH MASYRAKAT

@IAA UKDW 2021 | ©HowAreYouChristian

DISCLAIMER

- Opinions are my own and not the views of my employer;
- My knowledge is "FINITE". Be skeptical and critical constructive, then build fascinating discussion;
- Hacking is ILLEGAL! This for educational purpose only.

TABLE OF CONTENTS

I. Introduction

II. CIA Triad

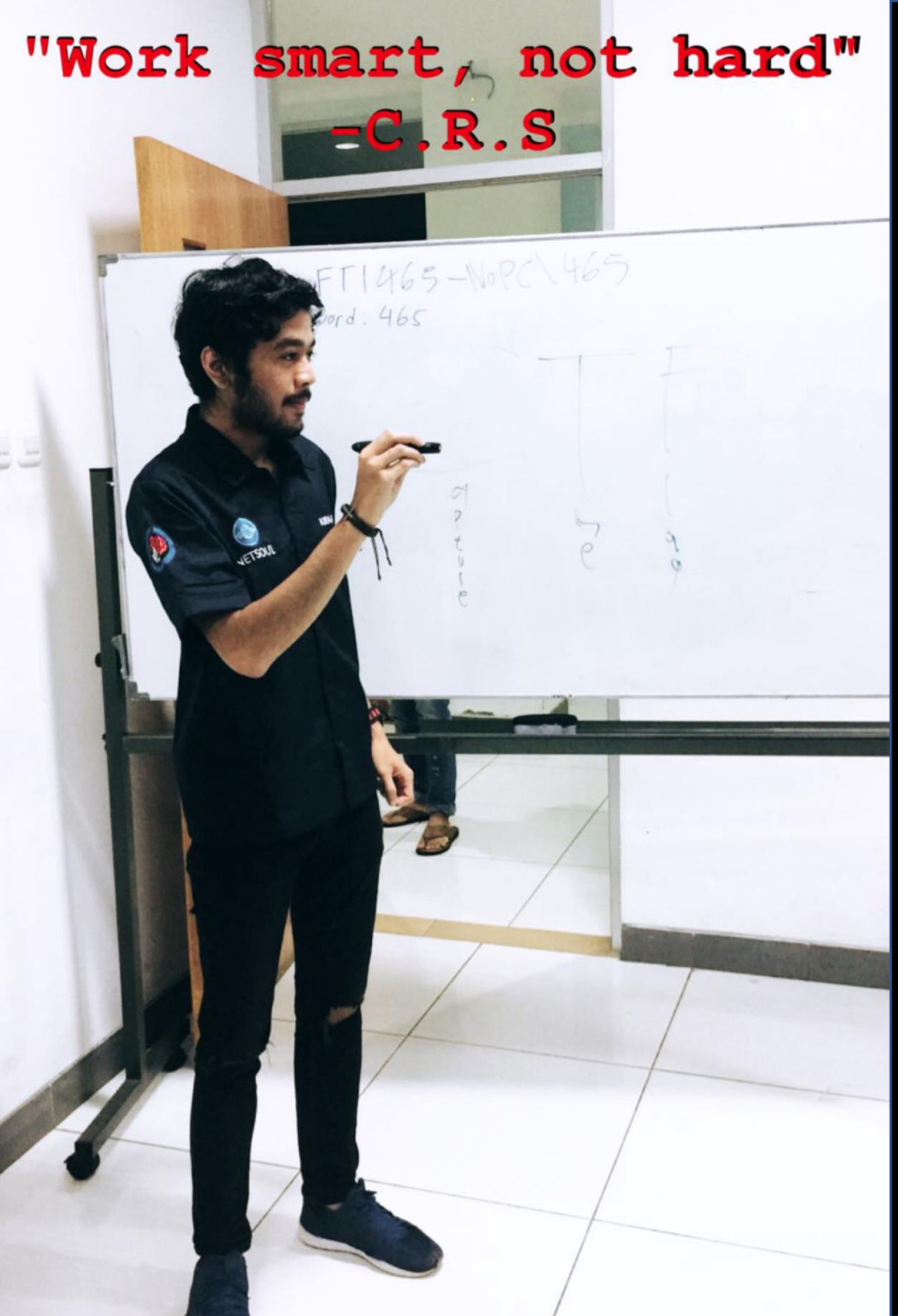
III. Use Cases

IV. Internet Kung Fu

V. Conclusion

- Who Am I? What I Do?
- Basic Security Principle
- Understand the Threat Landscape
- Self-defence on Cyberspace
- Security Awareness is Matters

I
INTRODUCTION



WHOAMI & WHATIDO

CHRISTIAN R. SOPAHELUWAKAN

SCAN ME

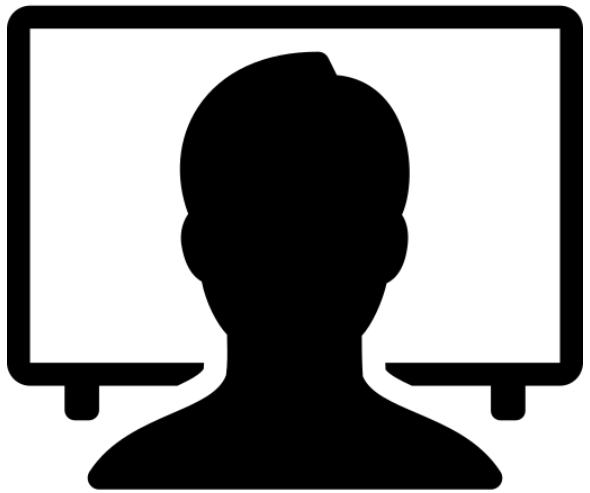
www.s.id/howareyouchristian

IT Security, Private Sector
~1+ Years Professional Career in #INFOSEC

Satya Wacana Christian University Alumni
~Informatics Engineering

Evangelist, Arisan Security
~Community Contributor

CORE VALUES I BELIEVE



WATCH

LEARN

GIVE

TIAN,
WHY DID YOU JOIN ~~CYBERSEC~~ INFOSEC?

- ❑ PERSONAL
- ❑ $$$
- ❑ TECH GUY IN FAMILY
- ❑ SOUNDS COOL

MY HOBBY

90% Penyebab Awal Dari "Data Breaches"

=

~~Vhishing~~ Phishing.

Source:
www.hackernoon.com

WHY?

JAN 2021

INDONESIA

ESSENTIAL HEADLINES FOR MOBILE, INTERNET, AND SOCIAL MEDIA USE

⚠ *CHANGES TO DATA SOURCES FOR INTERNET USERS AND SOCIAL MEDIA USERS MEAN THAT VALUES ARE NOT COMPARABLE WITH PREVIOUS REPORTS*

TOTAL POPULATION

274.9 MILLION

URBANISATION:

57.0%

MOBILE CONNECTIONS

345.3 MILLION

vs. POPULATION:

125.6%

INTERNET USERS

202.6 MILLION

vs. POPULATION:

73.7%

ACTIVE SOCIAL MEDIA USERS

170.0 MILLION

vs. POPULATION:

61.8%

SOURCES: THE U.N.; LOCAL GOVERNMENT BODIES; GSMA INTELLIGENCE; ITU; GWI; EUROSTAT; CNNIC; APJII; OCDH; SOCIAL MEDIA PLATFORMS' SELF-SERVICE ADVERTISING TOOLS; COMPANY EARNINGS REPORTS; MEDIASCOPE; CAFEBAZAAR. ◈ **COMPARABILITY ADVISORY:** SOURCE CHANGES. INTERNET USER NUMBERS NO LONGER INCLUDE DATA SOURCED FROM SOCIAL MEDIA PLATFORMS, SO DATA ARE NOT COMPARABLE WITH PREVIOUS REPORTS. SOCIAL MEDIA USER NUMBERS MAY NOT REPRESENT UNIQUE INDIVIDUALS, SO MAY EXCEED INTERNET USER NUMBERS.

we are social

Hootsuite®

Indonesians "Disruptive" Technology

- **Transportation:** Gojek, Grab, Maxim, …
- **FinTech:** GoPay, OVO, DANA, Jenius, LinkAja, KreditPlus, …
- **E-Commerce:** Tokopedia, Bukalapak, Bhinekka, Shopback, ...
- **Travel:** Traveloka, Tiket.com, Agoda, Expedia, ...
- **Instant Messaging:** WhatsApp, Telegram, Signal, …
- **Social Media:** Instagram, Facebook, Twitter, TikTok, LinkedIn, …
- **E-Government:** Pajak, E-Court, SIM Online, KEMKES, …

Data Breach **Unknown** **Security Breach**

@GramMentor

"

My wife asked me why I spoke so softly in the house. I said I was afraid Mark Zuckerberg was listening! She laughed. I laughed . Alexa laughed. Siri laughed.

@GramMentor

Actor
James Franco

KARTU KELUARGA
CENCORED
KARTU KELUAR
No. 340
CENCORED
CENCORED

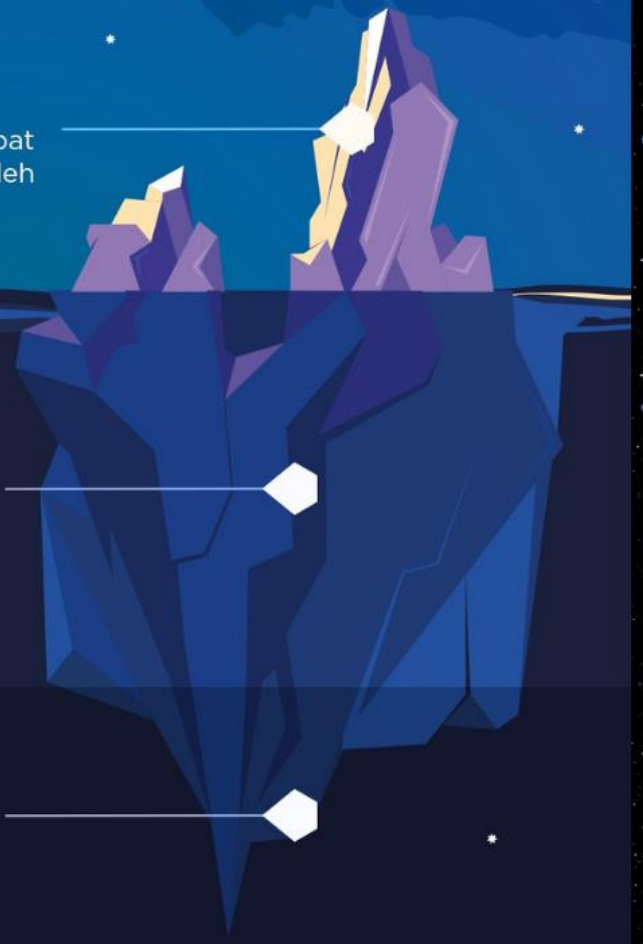
Timed Out

II

CIA Triad

KOMINFO

Dark Web =/ Deep Web



Surface web

berisikan konten atau informasi yang dapat diakses secara publik karena terindeks oleh mesin pencari dan mudah ditemukan.

Deep web

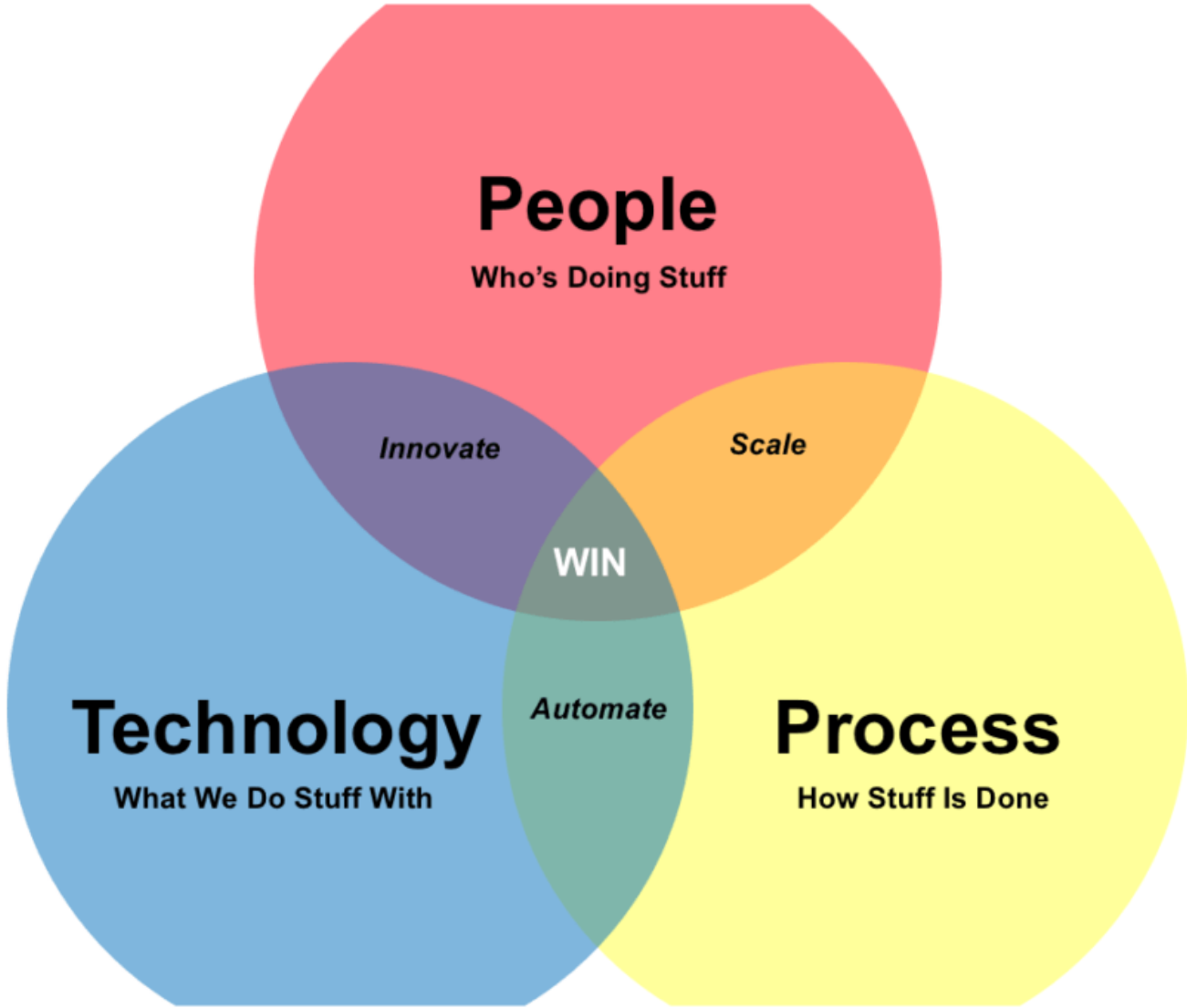
berisikan informasi rahasia dan tidak diperuntukan bagi semua orang untuk diakses secara publik.

Lebih dalam lagi, Dark Web

memuat berbagai konten kekerasan, perdagangan ilegal, dan konten negatif lainnya yang mesti dikunjungi secara anonim.

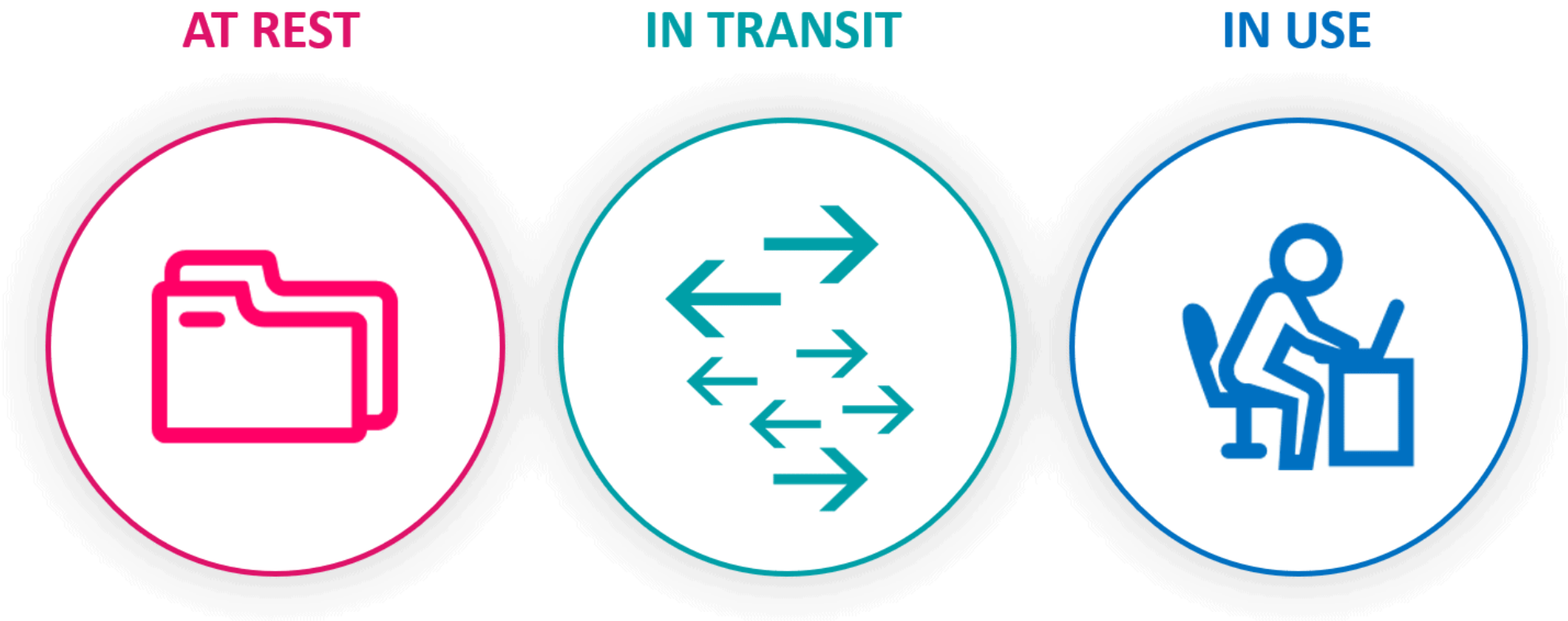
@kemkominfo @kemenkominfo Kemkominfo TV

People / Process / Technology Framework



Christopherspenn.com | @cspenn

THE THREE STATES OF DATA

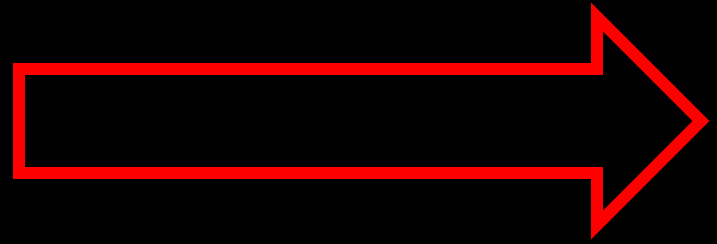


Source: www.sealpath.com

Source: www.liodeus.github.io

III
Use Cases

WHAT'S ON YOUR MIND?



Source: www.pexels.com

This Connection is Untrusted

You have asked Firefox to connect securely t[redacted], but we can't confirm that your connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

What Should I Do?

If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

Get me out of here!

▸ Technical Details

▾ I Understand the Risks

If you understand what's going on, you can tell Firefox to start trusting this site's identification. **Even if you trust the site, this error could mean that someone is tampering with your connection.**

Don't add an exception unless you know there's a good reason why this site doesn't use trusted identification.

Add Exception...

Send me occasional reminders about these settings

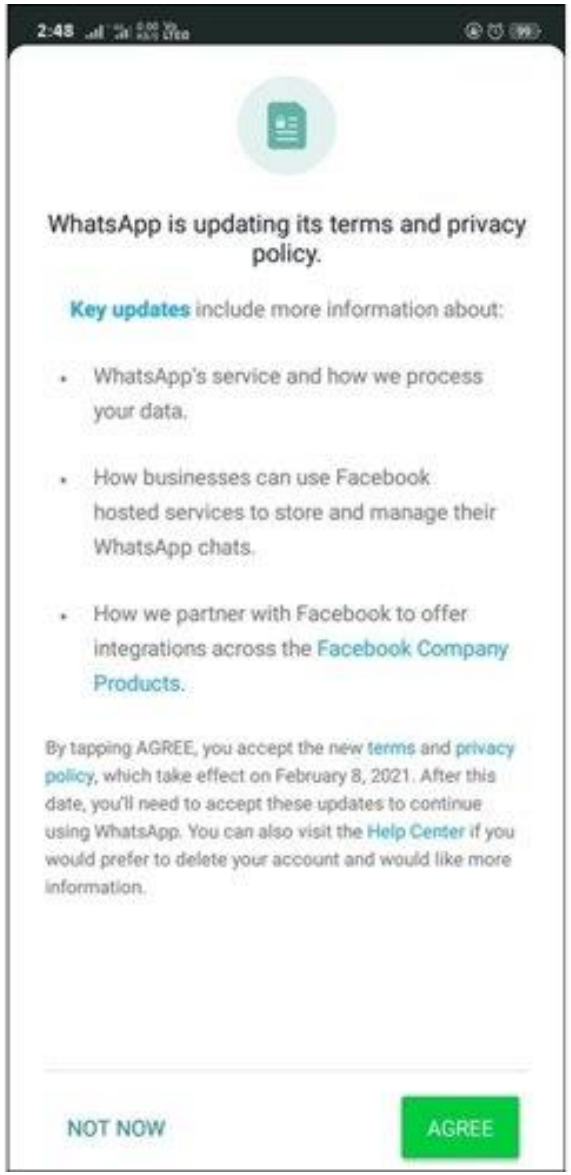
These settings apply wherever you are signed in to your new Google Account.

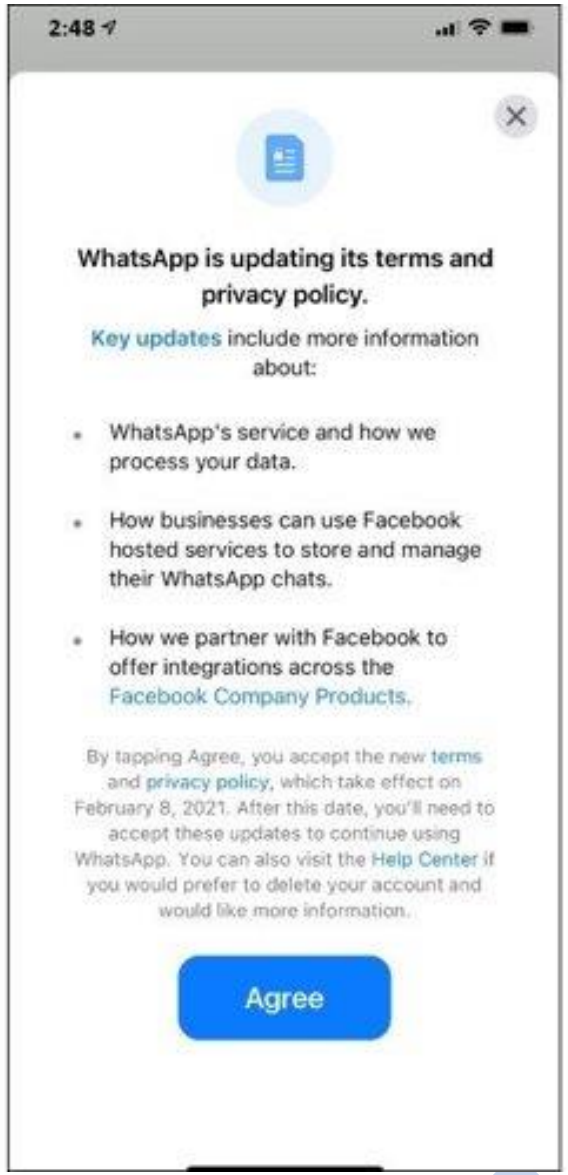
I agree to the Google Terms of Service

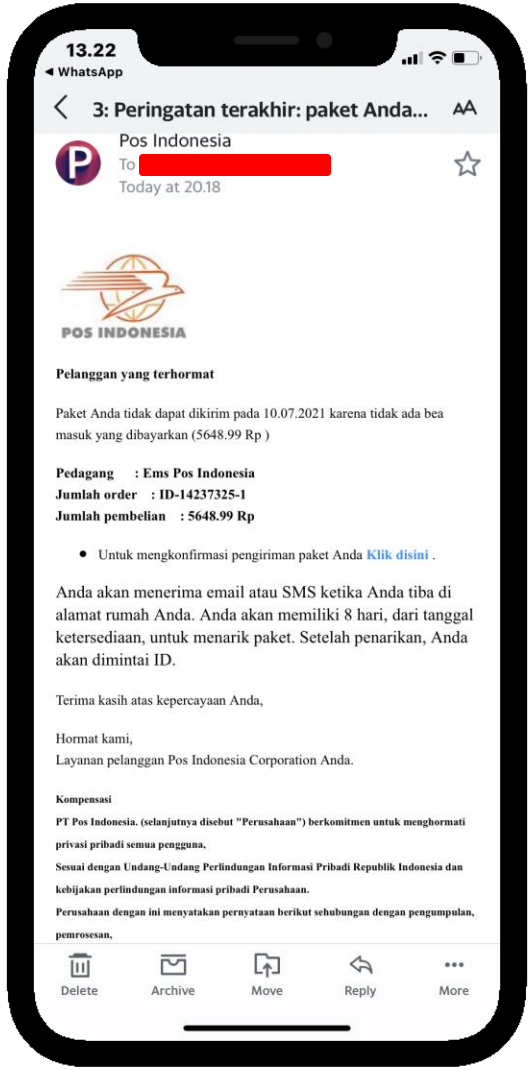
I agree to the processing of my information as described above and further explained in the Privacy Policy

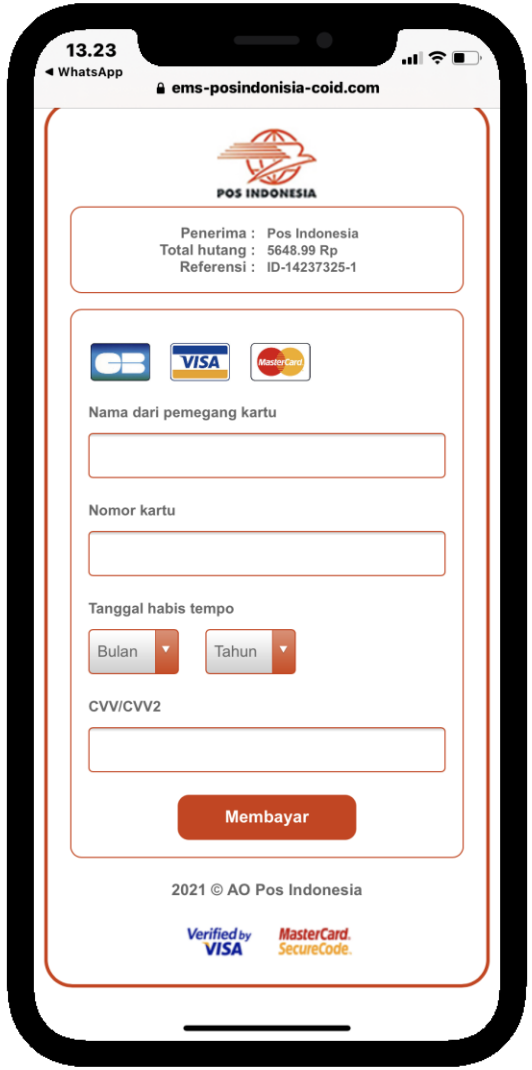
Cancel

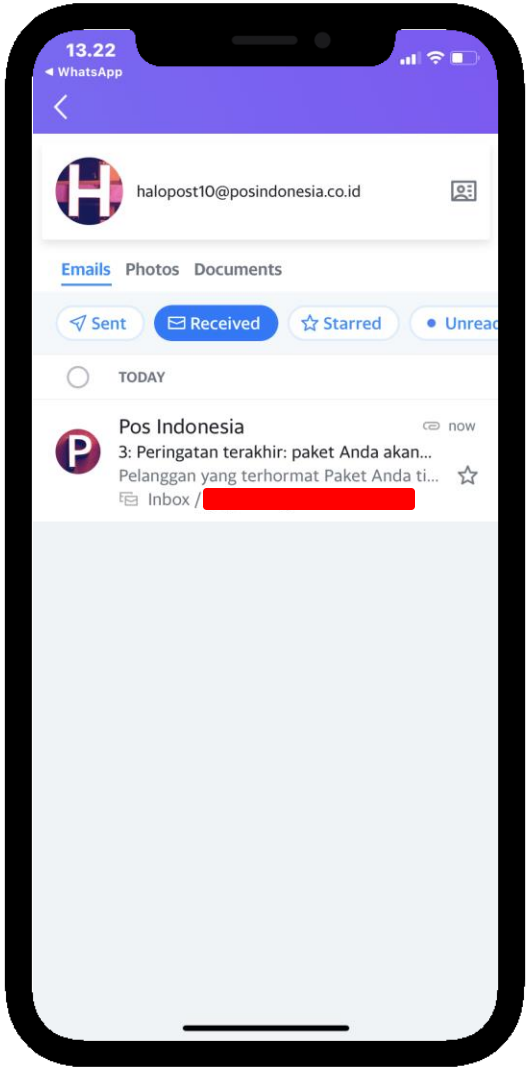
Create Account


2:48
WhatsApp is updating its terms and privacy policy.
Key updates include more information about:
WhatsApp's service and how we process your data.
How businesses can use Facebook hosted services to store and manage their WhatsApp chats.
How we partner with Facebook to offer integrations across the Facebook Company Products.
By tapping AGREE, you accept the new terms and privacy policy, which take effect on February 8, 2021. After this date, you'll need to accept these updates to continue using WhatsApp. You can also visit the Help Center if you would prefer to delete your account and would like more information.
NOT NOW
AGREE


2:48
WhatsApp is updating its terms and privacy policy.
Key updates include more information about:
WhatsApp's service and how we process your data.
How businesses can use Facebook hosted services to store and manage their WhatsApp chats.
How we partner with Facebook to offer integrations across the Facebook Company Products.
By tapping Agree, you accept the new terms and privacy policy, which take effect on February 8, 2021. After this date, you'll need to accept these updates to continue using WhatsApp. You can also visit the Help Center if you would prefer to delete your account and would like more information.
Agree


13.22
WhatsApp
3: Peringatan terakhir: paket Anda...
Pos Indonesia
To [redacted]
Today at 20.18
POS INDONESIA
Pelanggan yang terhormat
Paket Anda tidak dapat dikirim pada 10.07.2021 karena tidak ada bea masuk yang dibayarkan (5648.99 Rp)
Pedagang : Ems Pos Indonesia
Jumlah order : ID-14237325-1
Jumlah pembelian : 5648.99 Rp
Untuk mengkonfirmasi pengiriman paket Anda Klik disini .
Anda akan menerima email atau SMS ketika Anda tiba di alamat rumah Anda. Anda akan memiliki 8 hari, dari tanggal ketersediaan, untuk menarik paket. Setelah penarikan, Anda akan dimintai ID.
Terima kasih atas kepercayaan Anda,
Hormat kami,
Layanan pelanggan Pos Indonesia Corporation Anda.
Kompensasi
PT Pos Indonesia. (selanjutnya disebut "Perusahaan") berkomitmen untuk menghormati privasi pribadi semua pengguna,
Sesuai dengan Undang-Undang Perlindungan Informasi Pribadi Republik Indonesia dan kebijakan perlindungan informasi pribadi Perusahaan.
Perusahaan dengan ini menyatakan pernyataan berikut sehubungan dengan pengumpulan, pemrosesan,
Delete
Archive
Move
Reply
More


13.23
WhatsApp
ems-posindonisia-coid.com
POS INDONESIA
Penerima : Pos Indonesia
Total hutang : 5648.99 Rp
Referensi : ID-14237325-1
Nama dari pemegang kartu
Nomor kartu
Tanggal habis tempo
Bulan
Tahun
CVV/CVV2
Membayar
2021 © AO Pos Indonesia
Verified by VISA
MasterCard SecureCode


13.22
WhatsApp
halopost10@posindonesia.co.id
Emails
Photos
Documents
Sent
Received
Starred
Unread
TODAY
Pos Indonesia
now
3: Peringatan terakhir: paket Anda akan...
Pelanggan yang terhormat Paket Anda ti...
Inbox / [redacted]

Ledger

Message by LEDGER's CEO

Dear Ledger client,

As you know, Ledger was targeted by a cyberattack that led to a data breach in July 2020. We were informed about the dump of the content of a Ledger customer database on Raidforum. We believe this to be the contents of our e-commerce database from June 2020.

At the time of the incident, in July, we engaged an external security organisation to conduct a forensic review of the logs available. This review of the logs enabled us to confirm that approximately 1 million email addresses had been stolen as well as 9,532 more detailed personal information (name, surname, phone number and customer wallet information) that we were able to specifically identify.

For this reason for security purposes, we have sent you a new device you must switch to a new device to stay safe. There is a manual inside your new box you can read that to learn how to set up your new device. For this reason, we have changed our device structure. We now guarantee that this kinda breach will never happen again.

We deeply apologize for the inconvenience caused to you due to our faulty security systems.

Note: This new device doesn't work for new setups. You need to follow 6 step installation guide which is inside your box. Once you successfully installed you can start to use your new device.

Sincerely,

Pascal Gauthier

CEO, Ledger

+62 [redacted]

Assalamu'alaikum....

Selamat Malam kak Maaf ganggu,kami dari kasir indomaret, minta bantu sebentar,tadi ada pelanggan kami beli voucher game,kami salah invut nomor jadi sms nya terikirim ke nomor kakak 🙏
Sms dari whatsapp yg
ada tulisan thailand nya kak,karna ada kode 6 angka kak untuk kode voucher game fishinggo kk🙏

Mohon di bantu ya kak🙏

Bantu di screnshot sms nya ya kak

Soal nya yang beli voucher game nya sudah nungguin 🙏😇

21:33

+62 [redacted] ~Desiati
Assalamu'alaikum....

Selamat Malam kak Maaf ganggu,kami dari kasir indomaret, minta bantu sebentar,tadi ad...

Wallaikumsalam Wr. Wb.,

Maaf baru balas, kok saya dapat kode ini yaa kak? https://s.id/wjRNB

Pasti saya bantu kok. Tapi waktu saya click OK untuk Unlock Content diatas, tidak terjadi apa-apa. Saya harus bagaimana yaa? 🙏

22:08

Just a moment...
imageshare.best

https://imageshare.best/image.php?id=J0NUZ9.jpg

22:08

You
https://imageshare.best/image.php?id=J0NUZ9.jpg

VI
Internet Kung Fu

Cyberwarfare
Sextortion
Online-Predation
Endpoint
API
SQLi
Malware
Passwords
APT
MitM
Cyberbullying
Offensive-Content
Phishing
Insider
DoS
XSS
Weak
Deepfakes
Rootkits
Jacking
0Day
Unencrypted
Insecure
Cloud
IoT
Scamming
WordItOut

1

Don't Give Out Personal Information

Avoid online phishing attempts by keeping your personal information private. Don't give out your phone number, social security information, or banking info to someone you don't know.

2

Create Complex Passwords

Create passwords with a combination of letters, numbers, and symbols. Consider using password managers to create and keep track of your passwords.

3

Check Website Reliability

Before purchasing anything on a website ensure that it's safe. You can do this by checking if it has a small lock icon or "https" before the URL. The "s" in "https" stands for "secure" and the lock means it's confirmed as a safe site by your browser.

Avoid Suspicious Online Links

4

Be careful of websites or emails containing suspicious links. Some websites may use quizzes, freebies, or salacious stories to get you to click on them and then steal your personal information.

5

Keep Your Computer Updated

Computer developers release updates to keep products safe. Keep your device software up to date so it is not vulnerable to malware.

6

Monitor App Permissions

Learn the privacy settings for any device, app or service you use. Some apps will ask for permission to access photos and other personal information. Stay informed so you aren't sharing anything you don't want to.

Be Cautious with Public Wifi

7

Be careful when you use public wifi. When accessing public networks, anyone can use unsecured networks to distribute malware and access private information.

V
Conclusion

TL;DR

- ✓**Zero Trust** ideology
- ✓Security is **OUR** responsibility
- ✓Security Awareness play **CRUCIAL** roles
- ✓youtube.com/user/StaySafeOnline1

WISE MEN SAY

"Dengan ilmu hidup menjadi mudah;

Dengan iman hidup menjadi terarah;

Dengan cinta hidup menjadi lebih berwarna."

Kombes Pol.

Muhammad Nuh Al-Azhar,

MSc., CHFI., CEI., ECIH

QnA

DANKJEWEL!

DO YOU HAVE FURTHER QUESTIONS?

@HowAreYouChrist
/in/ChristianRonaldo

CREDITS:
This presentation was created
by **ASEC R&D Team**,
including icons by **Canva & Icons8.**