



Australian Government
Australian Signals Directorate

ASD
AUSTRALIAN SIGNALS DIRECTORATE
ACSC
Australian Cyber Security Centre



PERSONAL CYBER SECURITY MOAN KAWAI

cyber.gov.au

Karinanin te Cyber Security

Te **Personal Cyber Security: Moan kawai** n te kaita (guide) bon ngaii taian moan tiri (series) ibukinteniua te kaita ae karoaki ibukin buokaia ni katoa bong kain Aotiteria ibukin kamatakia iaon te basics of cyber security. Reiakinan aron mwakuri ibukin kamanoam man mwakuri n akiako aika a rangi ataki (common cyber threats).



Moan Kawai



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Tera te personal cyber security?

Biriraken rabakau aika a boou ni kabuta te aonnaba ni kamanenaan taian device ao akaunti ni katoa bong e na karekei ananga ni kanganga ma te cyber threats:

- Am device n aron te naan kombiuta, mobile tareboon, tablet ao tabeua riki ake a kona n toma ma te intanete.
- Ngkoe are ko kakamanena te onrain akaunti ibukin te imeeri, te bangke, bobwai, te reitaki ma raraom (social media), takakaro ao a mwaiti riki.

Personal cyber security ngaia ae na kateimataoi kawai n totoko ibukin kamanoan am akaunti ao am device man kanganga n te cyber threats.

Terana taian cyber threat?

Ae kabotoaki bwangaia taian cyber threat ae rotiia kain Aotiteria ni katoa bong bon taian **scam** **ao malware**.

- **Malware** bon kabwaranakoan nanon taeka aika mwaiti (**blanket term**) ae **kabonganaki ni kabwarabwara te malicious software** ae a karioaki ibukin karekean te kanganga. Aikai n aron te viruses, worms, spyware, trojans ao ransomware.

Taan Cybercriminal a kamanena te malware ibukin kimoakin rongorongom ma am mwane, ao n rinnakoi taian taua mwii n am device ao am akaunti.

- **Scams** bon rongorongo ake a kanakoaki mai ioun te cybercriminal ni karoaki bwa ana kona ni ibitiko n anganako rongorongo aika kakawaki/karaba, ke ni kammwakuri malware iaon am device.

Rinnakoan am akaunti e na kona ni kareka te kanganga nakoim ma am mwane. A rangi n rikirake ao n okioki waki aikai.

Aanga ni ibuobuoki ibukin kamanoau man taian cyber threat?

Ngkana ko a tibwa reiakina taekan te cyber security n te moan tai, ke ko kataia ni irirarake te waki ae boou, te kaita (guide) aio boni ngaia te kabanea n tamaraoa ibukin am moan tetere. Te Personal Cyber Security: Moan kawai ibukin kairam bon ngaai kanoan teniua banna ni kairiri ni buokiko ni kamatatako iaon te baitiki (basics) ibukin te cyber security.

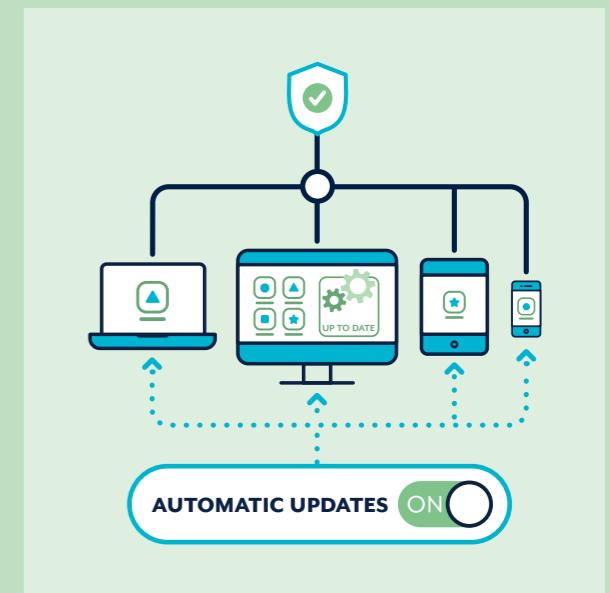


Kamaeuia te automatic updates

Tera te updates?

Te update bon katamaroa nakon ana wetion (version) te software (programs, apps ao operating systems) ake ko a tia ni karini n am kombiuta ao am mobile device.

- Taian **software update a buoka ni kamanoa am device** ni kaitiaki taian software ‘bugs’ (coding errors ke vulnerabilities). Taan cybercriminal ao malware a kona ni kabonganai taian ‘bugs’ n rinnakoa am device ao ni kimoai rongorongom, akaunti, rongorongon te mwane ao anuam.
- Taian **software ‘bugs’ aika a boou a teimatoa ni kuneaki** ao kabonganaki irouwia cybercriminals. Karinakin wetion aika boou n te software n am device e na buoka kamanoam man te cyber-attacks.



E kanga aron te set up n taian automatic updates?

Taian automatic update bon ngaai ake a kaman taubobonga aroia (default or ‘set and forget’) are ana bon kona ni mwakuri ni karini (installs) taian update aika a boou n te tai naba are a tauraoi iai.

- ✓ **Kamaeuia ao ni kamatoa (confirm) taian automatic update ni kabane am software ao device.**
- ✓ **E kanga aron kamaeuian (turn on) taian automatic update e kona ni kakaokoro ni kaineti ma te software ao te device.**
- ✓ **Mwakena te tai ibukin taian automatic update ngkana e riai, n aron te tai are ko matu ke are ko aki rangi ni kabonganai iai am device.**

Am device e na riai ni maeu, n nim mwina nakon te iti ao ni mwawa ana storage.



Buoka: Ngkana e kuba ni kaoti taekan te update n ana software am device ao ko riai ni karoia naba n te tai anne.



Ibukin rongorongon riki bwa e kanga aron kamaeuian taian automatic update a kona n reke n am kakae n taibina te taeka ae ‘Updates’ iaon te uebutiati ae cyber.gov.au



Tera arom ngkana akea ana setting te automatic update?

Ngkana akea ana setting te automatic update, ko riai n tutuoao ao ni karin taian update aika boou rinanon ana menu am software ke ana setting am device.

Ngkana am device ao software a bunginako taia (older) aki kona ni butimwaai taian updates?

Ngkana am device, operating system ke te software a bunginako taia (too old), e aki tau ni karekei taian boutokaki mai irouia taan karaobwai ke developer.

Ngkana a roko n tokin ke 'end of support' aikoa kona n rereke taian updates. Aio are e na rangi n aoraia te kanganga mai irouaia cyber-attack. Te katoto ibukin karaobwai ake a toki (end of support) bon te Windows 7 operating system ao te iPhone 7.

Ngkana am device, operating system ke te software e a roko n te end of support, te ACSC e kaungako bwa ko riai n upgrade n te tai ae waekoa ibukin kateimatoan kamanoam.

Ibukin rongorongona riki, kakae nako n taibina te taeka ae 'End of support' iaon te uebutiati ae cyber.gov.au



Ni kammwakura te multi-factor authentication (MFA)

Tera te MFA?

Ko kona ni kamanena te multi-factor authentication (MFA) ni karaka aron te kamanomano n am akaunti aika a kakawaki. MFA e kainanoaki bwa ko na karaoi taian rengarenga n taeka aika uoua ke iaona riki ibukin kokoauam imwain ae ko rinnakoa am akaunti.

- **Bwai aika ko atai** (katoto, te PIN, password ke kibuntaeka ni karaba (passphrase))
- **Bwai ae ko bwaibwai iai** (katoto, te smartcard, physical token, authenticator app, SMS ke email)
- **Bwai ake bon mai irouum** (katoto, te fingerprint, facial recognition ke te iris scan)

MFA e na kakorakora te totoko mairouia taian cybercriminal ibukin te moan rinnako n am akaunti. E na kauataao riki te kamanomano ibukin kamatoan kinakim, ni karaka riki te tai, kakatai ibukin uruakan rongorongom ake a mano.



E kanga aron kammwakuran te MFA ibukin kamanoan au akaunti aika a rangi ni kakawaki?

Kawai ibukin kammwakuran te MFA e kaokoro ni irekereke ma te akaunti, te device ke te software application. Ko riai ni kammwakura te MFA ngkai, ni moa man am akaunti aika a kakawaki:

- ✓ Ni kabane am akaunti ibukin te bangke ma mwin am mwane (katoto: am bangke, PayPal)
- ✓ Am imeeri akaunti (katoto: Gmail, Outlook, Hotmail, Yahoo!)

Ngkana e rawata am imeeri akaunti, moanibwaia moa ake a irekereke ma am bangke iaonrain ke tabeua taian tieweti aika kakawaki.

Ko kona ni wareka taekan aron kammwakuran te multi-factor authentication ni kakaea te taeka ae 'Multi-factor authentication' ke 'MFA' n te uebutiati ae cyber.gov.au

Kateimatoa te back up n am device

Tera te backup?

Te backup bon karekean katoton rongorongo (digital copy). N aron te nan tamnei, rongorongan te mwane ke te tauanimwi ake ko a tia ni kawakini nakon te external storage device, ke te cloud.

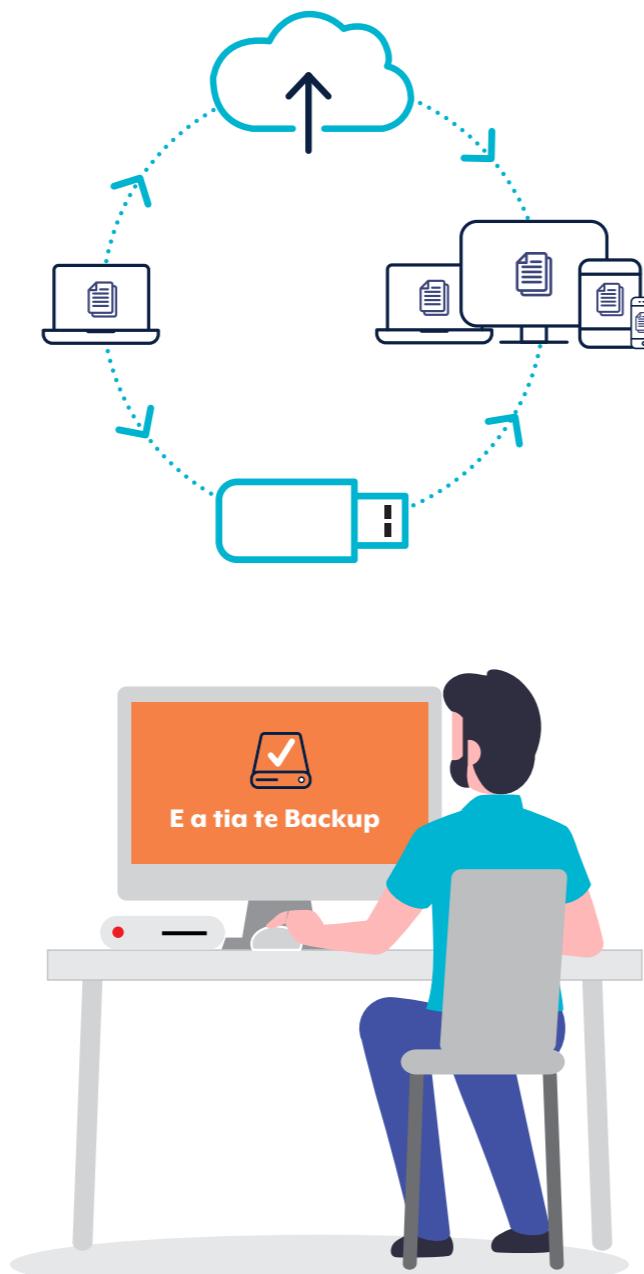
Te Back up n am rongorongo bon te moan totoko n te aro bwa ana kona ni manga kaokaki n aroia (recovered) ngkana a bua, kimoaki ke n uruaki.

E kanga aron ae N na back up au device ao file?

Ko riai ni kakaraoa am back up ni katoa tai nakon am file ao device. Tera tarakina iroum, e na katoa bong, katoa wiki ke katoa namwakaina, e a bon nakoim am kabanea n tamaroa are ko taku. E na iraua am tai ni back up e na kona ni kaineti ma mwaitin:

- am file ae ko katokai iaon am device,
- bitaki aika ko karaoi nakon te file.

Tip: Tutuo am backup ni katoa tai n te aro bwa kona kinai raoi ngkana ko a manga kaokia n arona (recovery process). Kakoaua raoi bwa e bon mwakuri raoi am backup.



Rongorongan riki aron te back up n am rongorongo (file) a kona n reke man kakaean te taeka ae 'Backups' iaon te uebutiati ae [cyber.gov.au](#)

Kabongana te passphrases ibukin kamanoan am akaunti aika kakawaki

Te Multi-factor authentication (MFA) bon te kawai ae rangi ni kakai ibukin kamanoan am akaunti man taian cybercriminal. **Ngkana te MFA akea ae tauraoi**, te kibuntaeka ni karaba (unique strong passphrase) ngaia ae tau nakon kamanoan am akaunti ni kabotauaki ma taeka aika a bebete (simple password).

Tera te kibuntaeka ni karaba (passphrase)?

Te kibuntaeka ni karaba (passphrase) ni kamanenai aua ke iaona riki taeka aika kakaokoro bwa am password.

Katoto: 'crystal onion clay pretzel'.

- **Kibuntaeka ni karaba a mano riki** nakon te password ae bebete.
- Kibuntaeka ni karaba (Passphrases) a rangi ni **kanganga rinnakoaia irouia cybercriminal**, ma e bebete **ibukim** bwa ko kai uringnga.

E kanga aron karoan te Kibuntaeka ni karaba (passphrase)?

Karoan te Kibuntaeka ni karaba (passphrases) n aron aikai:

- **Ananau:** n aki kee iaan 14 te man ni koroboki abwakina, ni kamanena aua ke iaona riki taeka aika a kakaokora. Ngkana e abwabwaki am passphrase e na rangi ni mano riki.
- **Kanganga uringakina:** kamanenan taeka aika irengan aika aua ke iaona riki aika aikirekereke. Tai kamanenai taeka aika rangi ni kakamanenaaki, kibu ni kora ke n te manewe n te kuna.
- **Kakaokoro:** n aki kamanenaaki n am akaunti ake tabeua.

Ngkana te uebutiati (website) ke te tieweti e kainanoa te password ae rengarengean n aron taian kanikina (symbols), manibubura (capital letters), ke te nambwa, ko kona ni kamanenai aikai n am Kibuntaeka ni karaba (passphrase). Am kibuntaeka ni karaba (passphrase) e na riai n abwabwaki, kanganga uringakina (unpredictable) ao ni kakaokoro ibukin kakorakoran kamanoam.



Tera taian akaunti ae N na riai ni kamanoa n te Kibuntaeka ni karaba (passphrase)?

Ngkana am akaunti aika a rangi ni kakawaki aki kamanoaki n te MFA, bita am passwords nakon te kibuntaeka ni karaba (unique strong passphrases), ni moa man:

- ✓ Aonrain bangke ao mwini te mwane
- ✓ Imeeri Akaunti

Ngkana e rawata am imeeri akaunti, moanibwai moa ake a irekereke ma am bangke iaonrain ke tabeua taian tieweti aika kakawaki.

Ko kona ni bita am password nakon te kibuntaeka ni karaba (unique strong passphrase) rinanon ana setting menu am akaunti.

Tip: Ngkana iai am kanganga ni kakaurungan am kibuntaeka ni karaba (passphrases), kataia ni kamanena te password manager. Man kamanenan te password manager, ko ti kainanoaki bwa kona uringa am password teuana, te password manager e a bon tabeakina ake nikirana. Kakaea te taeka ae 'password manager' n te uebutiati de [cyber.gov.au](#) ibukin karekean riki buokam.

Rongorongan riki aron karoan te kibuntaeka ni karaba (secure passphrases) a kona n reke man kakaean te taeka ae 'Passphrases' iaon te uebutiati ae [cyber.gov.au](#)



Kamanoa am mobile device

N taai aikai ao taian smartphone ao tablet a rangi ni kakamanenaki bwa irian maeura ni katoa bong. Ti kabongana n reitaki iai, bobwai, mwakuri, bangke, ruruamwin ara kamarurung ao ni katia tabera aika batu n te tai are ko tuku, ao man tabo aika kakaokoro.

Tera ae riki ngkana au mobile device e mangaongao mwakurina, e bua ke e kimoaki?

- E na bae n tia n rinnakoaki irouwia cybercriminal ni kimoa rongorongan am mwane ao bon rongorongom. Ana kona ni karaoa aio ni kabonganai rongorongom ake ko kawakin inanon am device, ni ikotaki ma ake n te social media ao am akaunti n am imeeri.
- Ana kona ni bua ake aki kona ni manga kaokaki n aron tamnei, notes ke messages (ngkana a tuai n tia ni back up).
- Taan cybercriminal a kona ni kabongana am nambwa n tarebon ni mwamwanaia aomata tabeman.



E kanga arom ni kamanoa am mobile device?

Otangan am Device:

- Rokana** am device ma te kibuntaeka ni karaba (passphrase), te password, te PIN ke te passcode. Karaoia bwa e na kanganga ni keetinaki – am bong ni bumg ao te roka n te pattern a rangi ni bebebete irouwia cybercriminal ni karekea. Kamanena te kibuntaeka ni karaba (passphrase) ni kakorakora riki kamanoam (nora iteraniba 6). Ko na bae n rinanoa kamanenan kinakin te ubu (facial recognition) ke mwaken tabonibaim (fingerprint) ni kanakoa rokan am device.

- Kakoaua** am device bwa e a tia arona ni bon kona n roka iboni irouna (automatically lock) imwin te tai ae uarereke are e a toki iai kamanenakina.

- Tai** tiatina am device n taabo n tiati (public charging station) ao kataia n aki tiati n aia bwain tiati aomata tabeman (third party).

- Mannanoa** am tarebon kanga aron am bwauti ni mwane. Kawakinna n te tabo ae mano ao iriam n tai nako.

Te Software ao te app security:

- Kabongana** am device ana automatic update feature ni karin (install) application aika boou ao taian update n ana operating system n te tai are a tauraoi iai.

Rongorongan riki aron kamanoan am mobile a kona n reke man kakaean te taeka ae 'Secure' iaon te uebutiati ae cyber.gov.au



Kammwakura am iango ni karikirakea nangoam man te cyber

Te Personal cyber security tiaki tii taikan bbitakin taian setting, bon taikan naba bbitakin am iango ao anuam.

Tararuaike man taian cyber scam

Taian cybercriminal ataaki n aroia ni kabongana am imeeri, te message, te social media ao te tarebon ni kakatai ao n scam nakoia kain Aotiteria. A kona aongko a rabwatania bwa temanna ke te rabwata teuana ke te botaki ae ko ataia, ke ko taneiai mangaia man onimakinna.

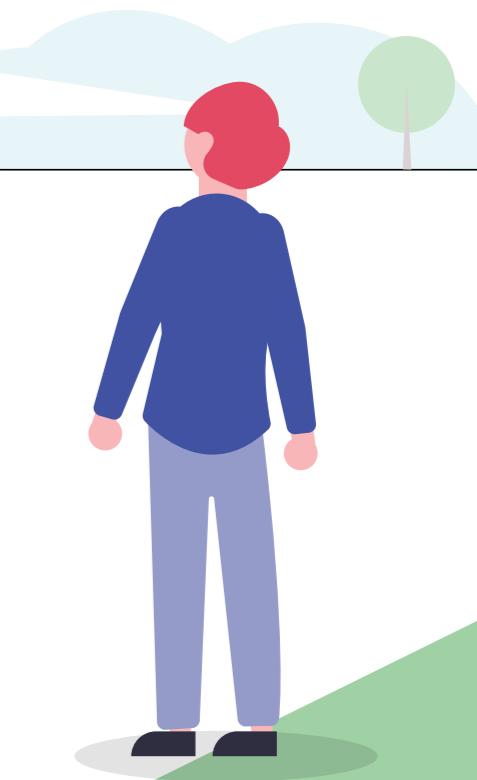
Iai taian message ao tarebon ke ana kataiko ni kamwaneko n te aro bwa ko na karaoi mwakuri aika okoro aroia, n aron:

- Rinanoan rongorongan am akaunti n te bangke, taian password, ao nambwan am credit card,
- N rinnakoaa am kombuita man te tabo ae raroa,
- Ni kaukan te attachment, ae iai te malware iai,
- Kanakoakin te mwane ke te bwaintangira (gift cards).

N na kanga ni kinai taian scam message?

E na rangi ni kanganga kinakin taian scam message. Taian cybercriminal a kabonganai anga aika kakaokoro ni kamwaneko. Aia message n aron aikai:

- Te Rabwata ae kinaki (Authority):** te message ni kaotia bwa te aobitia ngaia man te rabwata ae kinaki, n aron te bangke?
- Kainanoan te ibuobuoki ni waekoa (Urgency):** ko kaongoaki bwa iai te kanganga, ke aki tau te tai ni kaekaeka ke ni kabwakamwane?
- Namakin (Emotion):** te message ae kanakonano, te kakantaninga ke te kan ataibwai?
- Te tare (Scarcity):** te message ni kaotia bwa e a tare te bwai teuana, ke ni burommwati (promise) bwa te boraraoi ae materaoi?
- Bwai aika riki (Current events):** te message iaon rongorongo aika boou (current news story) ke botaki aika bubura?



Kamatebwai a bwa e kanga aron kinakin te phising ke taian scam message man kakaean te taeka ae 'Learn the basics' iaon te uebutiati ae cyber.gov.au

Tera ae N na karaoia ngkana e a reke irou te scam message?

Ngkana e roko iroum te scam message ke tareboniakim, ko riai ni katinanikua, kamauna ke n ribotinna nakon te ACCC's Scamwatch nakon te uebutiati ae scamwatch.gov.au

Ko kona naba n reitaki nakon te ACSC's Cyber Security Hotline iaon **1300 CYBER1** (1300 292 371) ngkana iai tabeaiangam ibukin te cyber security.

Ngkana ko a reke n te scam ao kaokioka am iango nakon am akaunti n te bangke, a nang rotaki am credit or debit cards, reitaki nakon te rabwata are e tabe ma kawakinan am mwane n te tai naba anne. A kona ni kaina am akaunti ke ni katoki kakarai mwane.

Tera arou ngkana iaki koaua raoi bwa te message te scam?

Ngkana ko taku bwa te message ke te tarebon e koaua bwa e roko man te rabwata ae ko onimakinna (n aron te bangke) kakaea te anga n reitaki ae ko na bon kinaia ao n onimakiniia raoi. Kakae nako n taian uebutiati aika a official, tareboni aia nambwa ake a kakaraoa te katanoata, ke bon roko ni kawara aia titoa ke aia mwanga. Tai kabonganai taian link ke taian contact detail ake a roko n te message ake a kanakoaki nakoim ke ake ko anganaki inanon tareboniakim bwa aikai ana kona n akea etia.

Buoka: Iango imwain ae ko Click.



Ngkana ko reke n te cybercrime ribotinna nakon te ACSC's ReportCyber iaon te uebutiati ae cyber.gov.au/report ke tarebonia te Cyber Security Hotline iaon **1300 CYBER1** (1300 292 371).

Ko kona n up to date n taian threat aika boou ni kariniko nakon ACSC's free alert service. Kakaea te taeka ae 'Subscribe to the ACSC alert service' n te uebutiati ae cyber.gov.au. Ti na kanakoa nakoim te alert ngkana iai te cyber threat ae boou.

Katoka arom ao iango imwain ae ko tibwaa iaon te social media

Taian cybercriminal a kona ni kabonganai rongorongo ake ko post nakoia te koraki n taian akaunti n te social media bwa taian scam ao te cyber-attack.

Uringnga are rongorongo iaon te intanete a bon oioi ni matoa ao ko aki kona ni kababanei ni kanakoi ngkana a tia ni post.

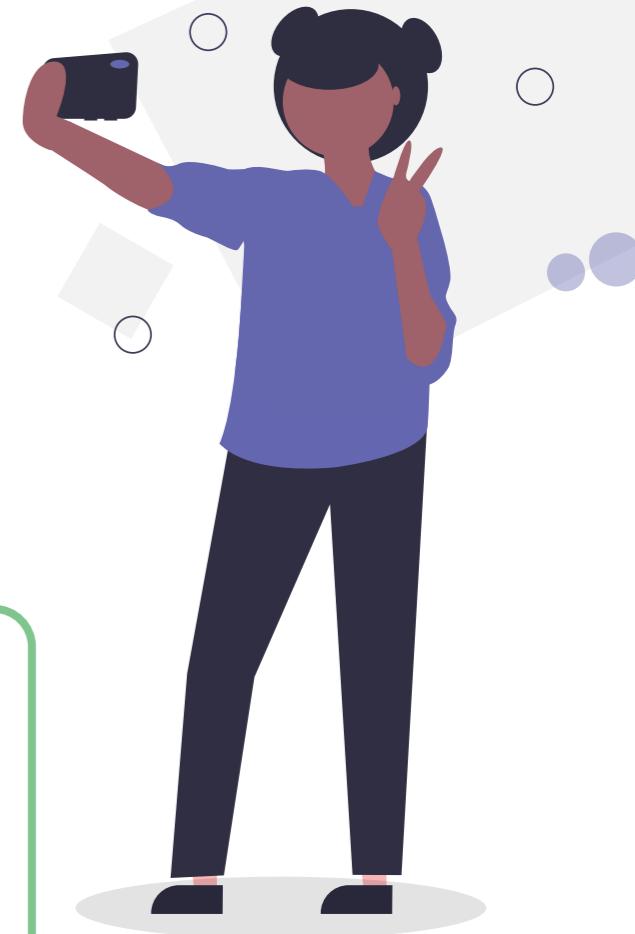
N na kanga ni katoka arou ao ni iango moa imwain ae I post?

- Iango:** Tera aron te cybercriminal ni kabonganai rongorongo n taketeniko ke am akaunti?
- Iango:** N na mwengaraoi n akea te ruanikai ngkana l kaoti rongorongo ke tamnei nakon temanna ae I bon aki kina naba teutana ngkana l iaki maeu aonraoi (offline)?

Tera rongorongo ae N naaki tibwai?

Tai tibwai rongorongo (ma tamnei) iaonrain n te aro bwa te naan cybercriminal ana kona ni kabonganai ni kaikinako iai, ni bitiko rinanon te scam ke ni ketini titiraki ibukin kaukan am akaunti. N aron aikai:

- Te tabo are ko bungiaki iai ao am bong ni bung.
- Atureti ao tarebon nambwa.
- Te tia kammwakuri ao rongorongan nako am tabo ni mwakuri.
- Iara te reirei ae ko kaea.
- Rongorongom riki tabeua (other personal information) ake a kona ni kamanenaaki n taketeniko.



Rinanoan am List (Summary Checklist)



Ko a tia ni bane n rinanoi kanoan te boki ni kakairi aio?

Kamanena te handy checklist n nori mwin am waki:

I a tia ni kamaeua te automatic updates N au device nako:

- Kombiuta (desktop ao laptop).
- Mobile tareboon.
- Tablet.

I a tia ni kammwakura te multi-factor authentication iaon au akaunti nako aika a rangi ni kakawaki:

- Ni kabane au aonrain bangke ma te tauanimwi n au mwane (katoto: au bangke, PayPal).
- Ni kabane au akaunti n te imeeri (katoto: Gmail, Outlook, Hotmail, Yahoo!).

I a tia ni back up au device:

- Kombiuta (desktop ao laptop).
- Mobile tareboon.
- Tablet.

I kamanena te kibuntaeka ni karaba ae kaokoro (unique strong passphrases) n au akaunti aika a rangi ni kakawaki ake aki kamanoaki iroun MFA:

- Aonrain bangke ma te tauanimwi n au mwane.
- Ni kabane au akaunti n te imeeri.

I a tia ni kamanoai au mobile device:

- Laptop.
- Mobile tareboon.
- Tablet.



Nanon Taeka (Glossary)

App

E ataki n arana ae ana buroukuraem te mobile (mobile application), te app bon te taeka ibukin te software ake a rangi ni kakamanenaki n te smartphone ke te tablet.

Attachment

Te file ae a kanakoaki n raona te imeeri message.

Authenticator app

Bon te app ae kamanenaki ibukin kamatoan kinakim bwa ngkoe te tia kombiuta (computer user) ibukin kariaikam rinanon te multi-factor authentication (MFA).

Cloud

Bon taian tiewa (server) ae a mena n tabo aika raroa ae e kawakin rongorongo aika a rangi ni korakora kanoaia (massive), aika titoaanaki n tibwatibwaki (distributed storage) ao ni mwakuri ma korakoraia irouwia (processing power).

Cybercriminal

Te aomata ae te tia ira n ninia ana tititem te kombiuta ke te akaunti n urui ao ni kimoai rongorongo.

Device.

Te kombiuta ke te bwai n reitaki (communications device). Katoto: te kombiuta, te laptop, te mobile tareboon ke te tablet.

End of support

End of support e nanonaki te tai are te kambwana e a toki ana boutoka ibukin te karaobwai ke ana tieweti. Aio are e na riki nakon karaobwai aika te hardware ao te software ngkana te kambwana e a kaotinakoi ana wetion ae boou (new version) ike e nang toki korakoran boutokakin taian wetion (version) ni kawai.

Manga kaokan au akaunti n arona (Account recovery)

Bon te mwakuri ibukin karoan taian titiraki ke kawai ibukin kinakim ake ko kona ni kamanenai ngkana ko kan kaoka am akaunti ke ni bita te kibuntaeka ni karaba (passphrase/password) ibukin am akaunti .

Malware

Taian Malicious software ngaia ake a kamanenaki n rinnakoi ao n taua mwin am kombiuta, ni kimoai rongorongo ao ni kona ni kamangaoi ke ni kamatei taian network.

Operating system

Te buroukuraem (Software) ae e karinaki n ana hard drive te kombiuta are e na kona te hardware n te kombiuta n reitaki (communicate) ao ni kammwakuri nako ana buroukuraem te kombiuta. Katoto: Microsoft Windows, Apple macOS, iOS, Android.

Physical token

Bon te device ae e kona ni kanimwaki ma kaon te king (keyring), are e kaotinakoa te security code ae na kabonganaki ibukin kamatoan kinakim bwa ngkoe te tia kombiuta (computer user) rinanon kabongan te MFA.

Remote access

Te kona n rinnakoa ao ni kammwakuri taian device ao taian network man te tabo ae tionako (offsite location).

Software

E rangi n nanoaki riki te buroukuraem (programs), ikoikotan rongorongo are e na kona ni kabongai te tia kombiuta ni kammwakuri, ana hardware ke ni karaoi taben te kombiuta.

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cyber.gov.au | 1300 CYBER1 (1300 292 371)

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