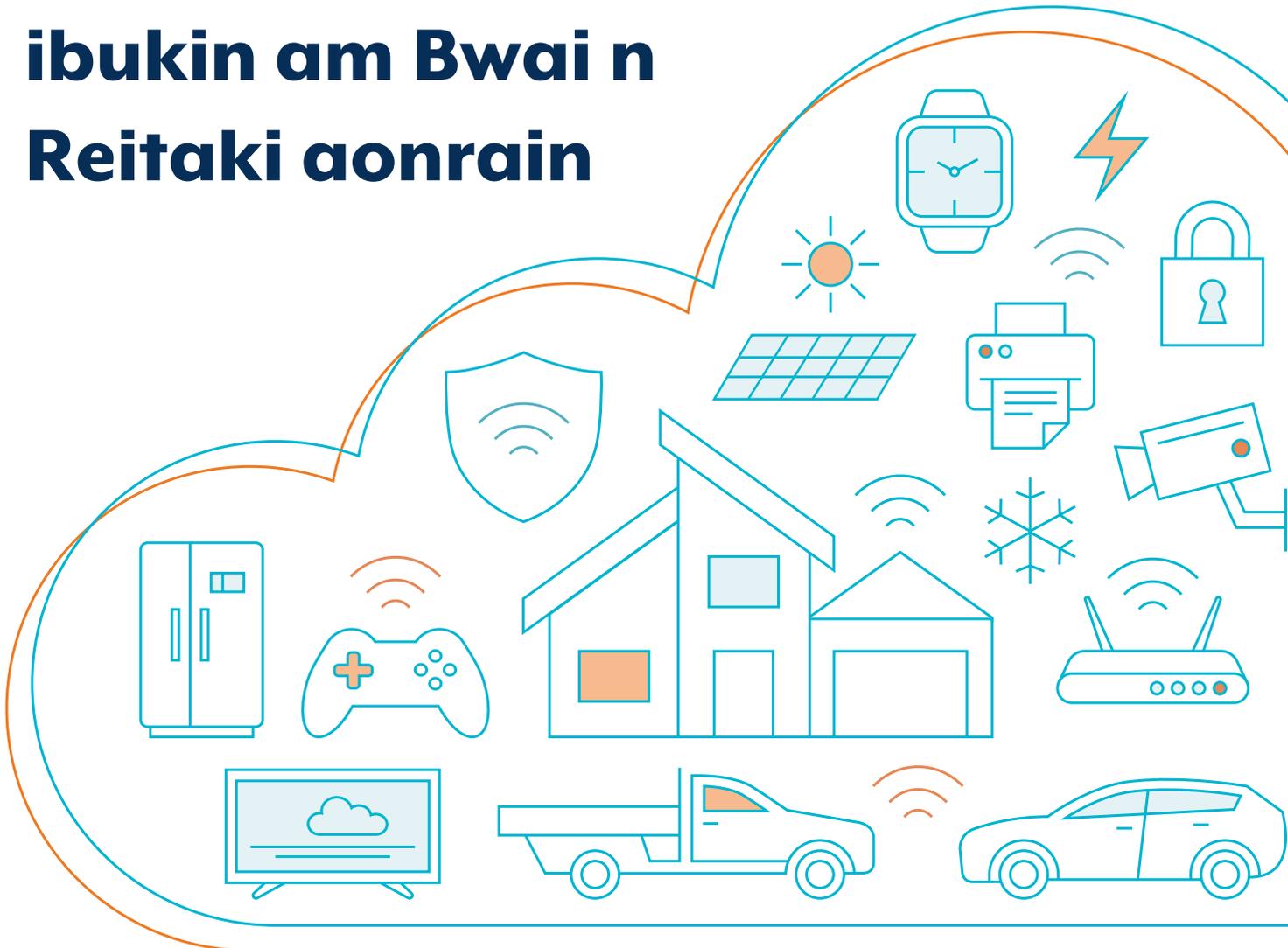




Kawai ni kamano ibukin am Bwai n Reitaki aonrain



Ana tabo Aotiteria ni Kamanomano iaon te Intanete e karioi rongorongoa aikai ibukin te ibuobuoki iaon aron kaboan ao kabonganana Bwai n Reitaki (IoT) aika mano. Te bwai n reitaki IoT bon bwai aika aki toki ni kakabonganaki aika a toma ma te intanete. Kabotau iaon IoT aika bwai n reitaki bon bwain tobwaia ataei, taian turoun, kaamera ni kamano, te tamnei ae nim ma intanete, ao te tiora inweta. IoT bwai n reitaki nte mwenga ao nte bitiniti a kabongana te Wi-Fi ke tititem n tareboon, n aron 4G ke 5G, ibukin tomaia ma te intanete.



Angiin IoT bwai n reitaki nte mwenga ao bitiniti iaon Aotiteria a aki rangi ni mano aron karaocia. Aio are ea kariki bwai n reitaki bwa ana iai memereia are kona n tokobetoaki nte intanete. Kanganga aikai a kona ni karinia taan ioawa aonrain inanon am bwai n reitaki ao n anai rongorongom ke ni karaoi mwakuri buaka.

Imwain kaboan te IoT bwai n reitaki

E kakawaki kamatebwaian bwai n reitaki imwain kaboana, ngkai taan karaobwai e kakaokoro tein aia kamano. I mwain kaboan bwai n reitaki, kabotau moa tein aron kamanomano ni bwai n reitaki. Ko riai ni uringi aikai:

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1. Ena riai ni karaoaki te bwai n reitaki iroun te kambwana ae nang-kinaki ao e kabonakoaki iroun te titoa ae nang-kinaki naba? Kambwana aika nang-kinaki a bon bae ni moanibwaia aron te kamano ni bwai n reitaki. Titoa aika nang-kinaki a bon bae ni moanibwai kabonakoan bwai n reitaki man kambwana aika nang-kinaki, ao man matoa aia kamironron ni-karaobwai e aonga n roko am bwai iroun n teina are ko kantaningaia.
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2. E kona ni bitaki taeka aika raba? E rangi n tamaroa bibitakin am taeka aika raba. Ma, ngkana te bwai n reitaki e roko ma taeka ni kamano aika ngore, ko riai ni moantaia moa aio. Te bwai n reitaki ae tikiraoi ana kamano e riai n okoro, kanganga rekena, e kamangaongao, ao ni kanganga kakaean ana taeka ni kamano, taeka ni kamano aika ngore a kai reke ni mwakuri ni ioawa.
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3. E kakatauraoi kaboou te tia karaobwai? E rangi ni kakawaki bwa kambwana ana kakatauraoi aron kabouan kamano aonga n taobaraki memere nte tai are a kuneaki iai. Te kabotau, ngkana burokuraem inanon am bwai n reitaki iai memereia ke taan kume aonrain iai aia anga n rinnakoa am bwai n reitaki, ana kainanoaki ngkanne kakaboou ibukin totokoan kanganga.
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4. Tera rongorongon ake ena anaki man am bwai n reitaki ao antai ae ena anganaki? Taekan rongorongon ake ana anaki ma aron kabonganana e riai n tauraoi n tainako n aia uebutiaiti taan karaobwai ke n aia kainibaire ibukin karabaam. E nang ni kakawaki n taai nako bwa tina tarai rongorongon ake a tangiraki ibukin kaukan burokuraem.
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5. Ena riai te bwai n reitaki n ti karaoa nanon are ko tangiria? Kaboan te bwai n reitaki ae tiraua aron mwakurina, ao n toma ma te intanete, e kona ni kauarerekea aron manom. Ana konabwai te bwai n reitaki ae ko aki kakabongana ni kona ni karekea kawain te memere man taian ioawa aonrain ao akea bongonana iroum.

IoT bwai n reitaki

Kakauringi titiraki aikai ngkana ko niko am bwai n reitaki, e aonga ni mano am tititem ao rongorongom.

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1. Ena riai n nim te bwai n reitaki nakon te intanete? Tiaki bukina ngke e kona ni katomaki ao e nang katomaki naba. Bwai n reitaki ake aki toma nakon te intanete a kuri ni kanganga ae ana tauaki taekaia. Ngkana kona aki kabonganai mwakurin bwai n reitaki are e kainanoa te intanete, ko riai n taraia bwa kona katoma ke ko aki.
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2. E mena te bwai n reitaki nte tabo ae mano? Ngkana te bwai n reitaki e aki kainanoa ae ena kateaki nte tabo ae mano, katanana nte tabo ae mano e kona ni kauarerekea kumeakina.
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3. E riai bwa nna bita arana ao taeka n rinnako aika raba? E rangi ni kakawaki bwa ena kabonganaki te taeka ni karaba aika raba. Ngkana am bwai n reitaki e aki roko ma ana taeka ni karaba ae okoro, e kanganga rekena, ao man kanganga atakina e kainanoa bitakina. Ara ao taeka ni kamano a kona n reke bwa a kakatokaki aonrain, nte aro are ea kai rinnakoaki am bwai n reitaki.
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4. E nikoaki am Wi-Fi bwa ena mano, ao ana taeka ni karaba a mano raoui? Kamanoa am Wi-Fi ao am rauta e aonga ni matoa rinnakoan am bwai n reitaki ao am tititem irouia taan urubwai.

Karaoa riki ae tamaroa

Nikoa am Wi-Fi ni karaoa teuana te tititem inanon am rauta ae onoti ibukin IoT bwai n reitaki. Ko kona n arana aio bwa te 'irua' iaon am Wi-Fi rauta. Ngkana am IoT bwai n reitaki aki kainanoa ae ana toma ibukin te reitaki, kamaua mwakurina are 'kaokoroaia katitamwa'. Kaokoroan am IoT bwai n reitaki ma rongorongon aika tabu ena kaokoro rongorongon bwai n reitaki ake tabeua ngkana e rotaki teuana am IoT bwai n reitaki.

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5. A mate mwakurin am bwai n reitaki ake aki kabonganaki? Ngkana am bwai n reitaki iai mwakurina aika aki bongana (n aron te camera ke te mwaiki), a riai n kamateaki ngkana e kona.

Karaoa riki ae tamaroa

Kakaea aron nikoana ae kaoti aron kamaeuan rinnakoana mai kiraroa bwa ena katoma ana intanete te bwai n reitaki ma te intanete i nanao LAN ke WAN/intanete. Kakoaua bwa e maiu te intanete inanao LAN, aio ngkana ko aki kan rinnakoia mai kiraroa.

Kateimatoan bwai IoT n reitaki

Aikai baika bongana ao n aki riai ni mwanuokinaki ngkana am IoT bwai n reitaki ea niko ao ea kabonganaki. N aron aikai:

1. **Ribuuti am bwai n reitaki ni katoatai.** A kona ni iai man aoraki n am IoT bwai n reitaki ngkana ea moanna ni butimere ke n aki mwakuri. Angiin mwaua a kawakinaki inanon te memori ao e kona ni kanakoaki ngkana e ribuuti te bwai n reitaki, are nanona, kona kamatea ao ni manga kamaiua. Ngkana e bon birimere naba te bwai n reitaki ke e aki mwakuri imwin te ribuuti, kataa are kaokan teina ngke moan tia ma aio e kona ni kamaunai kanoana ao aron teina iroum.
2. **Karaoi kaboou ni katoa tai.** Tabeua bwai n reitaki a bon kakaraoi kaboou irouia. Ibukia te koraki ake aki, rereitaki ma te tia karaobwai ao n aki kakaraoi kaboou ngkana a tauraoi. Ngkana ai akea kaboou aika tauraoi ibukin am bwai n reitaki, iangoia bwa kona kaboa am bwai n reitaki ae boou ae a tauraoi kaboou iai. Bwai n reitaki are ai akea kaboou ibukin kamanoaia ana aki bono ngkana iai memere aika boou, ao bwai n reitaki aikai a kona ni karekei kanganga nakon am tititem, am anga ni karabako ao rongorongom.
3. **Kamatei am bwai n reitaki ngkana aki kabonganaki.** Katukan bwai n reitaki n aki kabonganaki ke n taraki ao e toma ma am WiFi ni maan e kona ni karekea te ananga ni urubwai nakon am bwai n reitaki. Teuana te anga ae kona ni karaoaki bon kabonganatan te iti ae tainaki bwa ena katauraoa te iti nakon te bwai n reitaki nte tai ae tia ni katauaki.
4. **Taratara te kerake n am miita nte intanete ni katoa namwakaina.** Te kerake ae korakora n am miita nte intanete e kona ni kaota ae am bwai n reitaki ea tia n tauaki taekana. Ti ngkana arona bwa ana noora moa aio kain te IT n am bitiniti ko riai ni karaoa kaokan teina ngke moan tia (ma iangoia raoi bwa are karaoan aio e kona ni kamaunai kanoana ao ni bita teina iroum), ao ko ibiti am taeka aika raba.

Karenakoan te IoT bwai n reitaki

Karenakoan te bwai n reitaki (man bwain tangirana ke kabonakoana) e kona n angania tabeman anga n rinnakoa rongorongona ao rongorongom.

Anga n totokoi aikai:

1. **Kamaunai rongorongom ni kabane ao rongorongom.** Te tia karaobwai e riai ni katauraoi aron karaoan kamaunan rongorongom ao rongorongom man am bwai n reitaki ao burokuraem ake ko irekereke ma ngaai. Kamaunan rongorongom ena tuka te rinnako nakon am bwai n reitaki imwin karenakoana. Kamaunai am akaunti aonrain ngkana ea aki kainnakoaki ngkai akea IoT am bwai n reitaki.
2. **Kaoka te bwai n reitaki nakon teina ngke e moan tia.** Kaokan teina ngke moan tia e katauaki bwa ena kamaunai rongorongom ake a kawakinaki inanon ao ni kaoki naba arana ao taeka ni karaba. Tuoa ana maenuo te bwai n reitaki ke ana uebutiaiti te tia karaobwai ibukin aron karaoan kaokan teina ngke moan tia.
3. **Tai karekerekea am bwai n reitaki ma tareboon ao bwai n reitaki ake tabeua.** Kanakoan am bwai n reitaki ae iai rekerekena ma am bwai n reitaki ake tabeua, am tititem ke aonrain akaunti ko kona n rinnakoaki mai iai. Uringnga n tuoi am bwai n reitaki ake tabeua ao tarai bwa ana aki bea ma am bwai n reitaki are ko karenakoa. Kanakoi kariaia ake ko angani burokuraem ake koa aki kainnanoi.
4. **Kouti nnen rongorongom ake a bubutaki (e.g. USB flash drives, memori kaati etc.) ake a nim ma am bwai n reitaki.** Nnen rongorongom ake a bubutaki e kona ni iai inanon rongorongom ae aki mauna ngke ko kaoka teina ngke moan tia ao e riai ni kanakoaki, e uruakaki ao ni karenakoaki ni kamaenakoaki ma am bwai n reitaki.



Buoka

Reitaki ma Tauanimwin Tikino i Aotiteria Ana tabo Aotiteria ni Kamanomano iaon te Intanete ni imeri nakon asd.assist@defence.gov.au ke tarebonia 24/7 Te Rain ibukin te Ibuobuoki ae Tawe iaon **1300 CYBER1 (1300 292 371)**.

Ribotini bure aonrain nakon ReportCyber ikai www.cyber.gov.au/report

Reitaki ma IDCARE n aia uebutiaiti www.idcare.org ngkana ea tia ni kimoaki rongorongom.

Kawara www.cyber.gov.au ibukin taeka ni bau ibukim ma am utu. Kariniko n ana Tieweti ni Kakauring ACSC ae akea boona iaon kakamaku aonrain aika boou.

Tia karika Aotiteria bwa te tabo ae moan te mano ibukin te katomatoma aonrain.

Ibukin taeka ni bau nte kamano aonrain, kawara www.cyber.gov.au

Otanga

Kanoan te kamatata e bon kabuta ao n aki taraki bwa taian ibuobuoki nakon te tua ke n rangi kabotoaki bwa ngaia buokam inanon te tai are e kainanoaki iai ke inanon te karina. E kakawaki, bwa ko bon riai ni ukeuke ni kakae nako nakoia ake a mwatai ibukin aia ibuobuoki ni kaineti ma kainanom.

Te Kaomwanwareta e aki kataua bwa ngaia ae na bukinaki n reken uruaki, ni buan ke n reken kabanemwane aika ana kaoti ae riki man kamanenaan rongorongona ake inanon te kaita aio.

Kaobiraita

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Te number aio e ti kona ni kabonganaki iaon Aotiteria.

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