

KUDIZA CHAKUKIÑA NSAÑU YAHAFONI NIKOMPYUTA



KUHAKWILA AKWAKUHAKWILA

Himutayi Watalaña ha Wuswa wa Wantu
Ku Musela wa Africa



NSAÑU YIDI MUNAKA KAMUKANDA

Kuhakwila Akwakuhakwila ashimuna: Nzhila yapela nawa yayiwahi hakwila kompyuta hela foni yenu yikali yakiñewa nawa yekala nayozelu yawana yakuzatisha munzhila yapela.

Kuhakwila Akwakuhakwila hi Mutayi watalaña ha Wuswa wa Wantu ku Musela wa Africa.

Twafwilaña kukolesha mudimu wawantu ahakwilañku wuswa wawantu (HRDs) mukabeta kezhima kuhitila mukukehesha kuzyazeya kwatu hawubanzhi wakuyikabisha nikukolesha wuswa wawatu kulonda ahakwileñaku chiwahi wuswa wawantu. Kuhakula Akwakuhakwila azatilaña mu Burundi, Djibouti, Eritrea, Ethiopia, Kenya, Rwanda, Somalia (hamu nampata ya Somali), South Sudan, Sudan, Tanzania, ni Uganda.

Ha **Wukwashu waswayiswayi** mwani talenu

<https://www.defenddefenders.org/get-help/> hela

Temeshelelu nshiña yetu yazatikaña mpinji yezhima

+256-783-027611 Temeshenu nsañu ICT

Helpline/Signal/WhatsApp ha +256-787-556560

KUKIÑEWA KWEKINA

Tukuyilezha maluña imwatela kutala mumakina enu kulonda mwiluki neyi makina enu nimaakawunti ninsaňu yenu yakiñewa.

Windows



Masetiñi amavulu munateli kuyiwana swayi hakutachikila. Hakwila muwanuhu, chintenu Mbutawu ya Windows ➤ > mu Search Box ➤ Sonekenu nenu Control Panel ➤ Chintenu ha Systems and Security > Talenu chidi Window Defender Firewall, Bitlocker Drive Encryption kulonda mwiluki chikupu nenu yakwambula.

Mac



Yenu hambutawu ya Apple (>) System Preferences, chintenu Security & Privacy, kuhinahu chintenu General. Neyi munakukeña nsañu yikwawu hakwambula masetiñi akukiñewa, yennu: <https://apple.co/365i2KA>

Android



Yenu ha 'Settings'. Abulenu yuma yidi neyi pasivedi/bawometiliki, zhimenu lokesheni neyi chinakukeñeka. Neyi munakukeña nsañu yikwawu hachakwambula masetiñi akukeñewa mu Android, yehu ha: <https://nr.tn/3fIBQ9j>

iPhone



Yenu ha Settings > Chintenu ha ID & Passcode nawa sonekenu pasikodi yenu. Kufumahu yenu kwishina mumoni neyi USB Accessories yinetezhewi wanyi neyi sikilini yakukiya, dichi ilukenu chikupu nenu masetiñi akuzhima. Neyi munakukeña nsañu yikwawu yenu ha: <https://zd.net/3nXf94p>, ni <https://apple.co/2J1bc03>



KUHEMBELA NSAÑU KWACHEÑI

Kuhembela nsañu kwacheñi, hiku hembela kwacheñi nsañu yikwawu yimu kwe ti. Chumichichin ayimurkwila n awu neyi muzhimbasha nsañu chidi neyi foni yinabaluki indi kwizhi anayiyi, dikwila nawu himunazhimbeshi nsañuku.



Hakuhemba nsañu ha Windows & Mac:

Google Drive Sync hichozelu chachiwahi muloña ahanaña iluña dakushika ku 15 GB chawaana.



Microsoft OneDrive niwena ahanaña iluña dakushika ku 5GB chawaana nawa yazatikana chiwani neyi mwazatishaña yuma yawa Microsoft Office.



Dropbox, Degoo, ni Sync.com niwena ahanaña maluña anyanya nawa chapela kuyizatisha. Chikuwaha neyi mukutonda yozelu yinayiteleli (neyi muneluki wanyi, tachikenu na Google Drive!) nawa ilukenu chikupu nenu munachinti hakwila yuma nsañu yenu anakuyihembela kwacheñi neyi myua haintaneti.



100 GB FREE CLOUD DRIVE



100 GB FREE CLOUD DRIVE

Mafoni:

iPhone / iPad: Yenu mu Setiñi > Apple ID (nzhila yidi hewulu) > Tondenu foni yenu > iCloud Backup

Android: Yashiyashana kuzhifoni ninxitapu, ilaña yavula kuzatika naakawunti ya Google yidi hafoni. Chintenu hasetiñi yafoni > chintenuSystem > Backup > Ambulenu hanakwila nawu backup. Neyi munakukeña

nsañu yikwawu yenu ha: <https://bit.ly/3nXhHQ1>

KUKIÑEWA HAINTANETI

Kuhukula nsañu ha Intaneti

Hinhila yawukelikeli yakuhukwilamu nsañu yalema yazatishaña antu haintaneti.



Babalenu namaimelu akweti

- Nsañu yimunabuli kukuhwelela
 - Yinasonekuwu nayiluwa
 - Kuyimusha mwidimi dimunabuli kwiluka
 - Yinakuyilezhawu nawu mwakuli chakadi kuumba mpinji
- Neyi munakukeña nsañu yikwawu yenu ha: <https://bit.ly/3666gq1> ni <https://bit.ly/3q5EIT1>



Kuhukula nsañu hakukutemeshela foni

Antu ahukulaña nsañu kuhitila mukutemeshela foni (Kuhukula nsañu nezu = kuhukula nsañu haintaneti) Neyi munakukeña nsañu yikwawu yenu ha: <https://nr.tn/3q3hnkN>

Hakwila mumo ni neyi antu amakwawu anawani nsañu yenu, zatishenu mawebisayiti adi neyi ThreatCrowd.org, HavelBeenPwned.com, ni OSINTFramework.com kulonda mukeñi izhina dimwazatishaña haintaneti, imewu, nambala yanshiña niizhina denu.

Munateli kuhayama nsañu yimukuwana!

Neyi muwana yuma yimunabuli kukeña kumwekesha kudi antu:

- Himpenu masetiñi ahaintaneti yimunawani nsañu yenoyu.
- Himpenu yuma yakusha haintaneti kumbidi, muloña nsañu yeniyi yakalaña kuyizhima neyi yidi haintaneti.





KUSONEKA MUNZHILA YAKALA KUTAÑEWA

Ikina denu datela kwikala nansañu yakala kutañewa kudi kala muntu:



Windows:

Chintenu Windows > mu Search Box > Sonekenu chintenu Manage Bitlocker > Abulenu Bitlocker. Sonekenu nsañu yakuwana nachu yuma neyi yinazhimbalu mu Password Manager (yinashimunewi hefu dinalondeluhu) hadaha mukayikeña kumbidi! Neyi munakuzatisha Windows yakadi chozeli cha Bitlocker, munateli kutala ha VeraCrypt, chozeli chakuzatisha hakusoneka nsañu munzhila yakala kutaña kudi kala muntu yawana yidi aha, <https://bit.ly/3q2Ndho>.



Mac:

Chintenu hadi Apple () > System Preferences, kuhiñahu chintenu ha Security & Privacy > Chintenu FileVault > Ambulenu FileVault. Neyi munakukeña nsañu yikwawu yenu ha <https://apple.co/39ir7ld>



Android:

Yenu ha Settings > Security > Encryption > Chintenu Encrypt Phone. Neyi munakukeña nsañu yikwawu, yenu ha <https://bit.ly/39isi47>



iPhone:

Yenu ha Settings > FaceID/Touch ID Passcode > Abulenu Passcode > Sonekenu Setiñi yapasikodi yenu pasikodi / pasiwedi yikuhemba foni yenu munzhila yikubula kutañewa kudi kala muntu – chozeli chachiwahi!

MAPASIWEDI NINZHILA ZHIYEDI ZHAKWILUKILAMU

Chozelu chatalaña pasiwedi chikuhemba nikuyikwasha kutuña zhipasiwedi zhazhiha zhamaakawunti enu ezhima (o n lin e / o fflin e). Ch in ayi mu kwila n awu mu ku zatish a p asive d i yayile h i n an kash i, yakiñewa, yambukaku hawe bisayiti yidi yezhima chakadi kuyanuka!



bitwarden

KeePass

passbolt



Nzhila zhazhivulu zhakwilukilamu zhavula kutenawu nawu Nzhila zhiyedi Zhakwilukila hinzhila yikwilukilamu pasiwedi yakeñekaña muntu kuzatisha yuma yiyezi hela yayivulu yikwilukilahu hakwila yatweshi kuzatisha

Progiramu hela akawunti yahaintaneti. Zatishenu chozeli chakwilukilahu chidi neyi **Authy** hela **Google Authenticator** chatela kutambwila makodi mu SMS. Munateli kwikalna **Authy** hamakina amavulu kuhitila mukusha ‘Allow Multi Devices’– chinayi mukwila nawu, kwambukaku nayozenlu ya Google hela Microsoft yakwilukilahu, mukwiluka chikupu nenu mukwikala namakodi enu hakompyuta, foni, tabuleti nimakina ezhima imwazatishaña.

Mwatela kwikalna namaakawunti amavulu imunakukeña mu Progiramu ya Pasiwedi nizhinhila zhiyedi Zhakwilukilamu – ilaña neyi munakukeña kufuukulahu swayi, ilenu mwenimu naakawunti yenu ya imewu **nikwezhima** kumwahembelaña **nsañu yalema** yakundama kuwuswa wawantu.



FONI NIKUHANJEKA

Kutemesha ma Meseji:

Whatsapp  , Signal  ni Telegram  yezhima
yazatishaña yuma yakubula kwiluka antu nsañu
yimunakuhanjeja nawa mwatela kuyimona neyi yozelu
yakuhanjekelahu yakiñewa.

Antu amakwawu amonaña neyi WhatsApp hiyakiñewa chikupuku, ilaña chumichi chinayi mukwila nawu kuhanjeja kwakweni kwakuzhinda, (kwakuzhinda), ilaña kwashindamena hayuma yisatu chazatishañawu antu chozelu chenichi:

- Bayi mutemesha meseji mumazanvu mudi antu imwabula kwiluka nikukuhwelela – mwatela kuhanjika nawantu antesha mpinji yezhima
- Yozelu yikwawu yashaña mpinji yatela kuzhima meseji yayeni chimwahita kapinji
- Yozelu yikwawu yidi neyi **Wire** yinateli kuyitezha kuhanjeja nawantu chakadi kwiluka nambala yawu yafoni yayeni

Chikuma chalema chakwila nawu zatishenu chozelu chimu hakachi kaniyi nawu **Neyi chinatwesheki bayi muzatisha SMS** – swezhe-e neyi mutoñozhoka nenu anakuyilondalonda, hiyakiñewaku, nawa chaswayi kuwana mameseji enu kudi akwanetiweki imwazatishaña hela akwanshimbi amakwawu.

Iyi yozelu yezhima yekala cheñi hazhikompyuta nihawebisayi, dichi munteli kuyizatisha hakutesha mafayilo ninsañu yayivulu kulonda mubuli kuzatisha imewu.

FONI NIKUHANJEKA

Imewu:

Imewu yekala yakiñewa wanyi, dichi mwatela kubabala neyi munakuyizatisha hayuma yinakukeñeka kukiñewa,

chiña neyi musambilka kuzatisha izhi nzhila- talenu ifu dinafumuha dinakuha ha WhatsApp, Signal, Wire ni Telegram hakuhosha hanzhila zhapela nawa zhakiñewa zhinateli kutukwashaa kuhiiñisha imewu munkeñelu yayivulu.

PGP hinzhila yawula kuzatishawu hakukiya imewu, ilaña chekala chakala nankashi kwila mwenimu kudi antu abula kwinzhilila - kafwampi neyi mweluka dehi chakuzatisha nsapi zhenu zha PGP mwatela kudiwula iyi nsañu!

He la ch o ch u , mu yaaka yamako n u an tu an aku zata n aña vu ku lo n d a kuzatish a PGP nankashi nayozelu yidi neyi Mailvelope FlowCrypt.



Mailvelope ayizatishaña kumaprogramu ezhima aimewu chidi neyi gmail ni yahoo. Mukuwana chakuzatisha izhi nzhila ha:

<https://bit.ly/3fDBiBX>



Nzhila yimu yawula kuzatishawu yitukulezha antu azatisha Gmail hikuzatisha chozelu chatenañawu nawu FlowCrypt. Yenu ha [FlowCrypt.com](https://www.flowcrypt.com) nawa londelenu nzhila zhapela yakwila insito hakwila mumoni chimunateli kuzatishaña imewu yakukiña muzhiminiti zhakadi kushika ku 5!



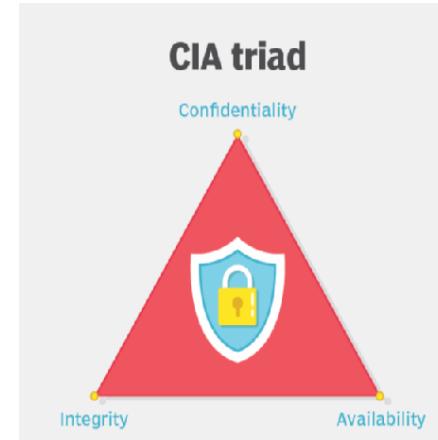
YUMA YAKUFUUKULA



Zatishenu ora yimu hela zhiyedi nakushakama
nakompyuta nifoni yenu, nakutala mumasetiñi enu
nimaakawunti. Chumichi chinateli kuyikwasha, swezhe-e
neyi yenu akunjikawu mudimu weniwu hamudimu wenu,
kulonda mufukuluhu chakuza chiwahi (SMART)

Munateli kuwana nzhila zhahivulu mwatalisha izu
dakwila nawu SMART haintaneti, ilaña zhemenañaku
nsañu yalema yadifwana: Nkeñelu yayiwahi diyi yapela
yimwatela kuzatisha kulonda mumoni chimunakuya
hambidi, yaleñelaña antu alema kumona nawu mudimu
wunakuya hambidi, nawa yakwashaña ezhima adi
nambadi kusha maana hachuma chatela kuzatewa,
hampinjinyi nawa muntwinyi wukweti mudimu wenowu.

Neyi munakukeña nsañu yikwawu,
talenu ha Kusakilalaku nawa munakoleki
hakukiñi mudimu niikina denu!
<https://www.projectsmart.co.uk/smart-goals.php>



KUZHINDA, KASHINSHI NI KWANIKWEWA YUMA YISATUYA

Kuzhinda, kashinshi nikuwanikewa, yumiyi ayiluka cheñi neyi yuma yisatu (*Confidentiality, integrity and availability CIA triad*), himutayi waloñeshawu kulonda kulombola nshimbi yansanu yakusweka mukachi kachipompelu. Mutayi weniwu mpinji yikwawu awutenaña nawu [AIC triad] (*availability, integrity and confidentiality*) kulonda chibuli kumwekana neyi anakutena mutayi wa (*Central Intelligence Agency*). Hela chakwila yuma yamuniyi yuma yisatu diyu yuma yisatu yaswezha kulema yakeñekana hakudikiña musanu yamakompyuta, ankuluñaña akuhwelela nawu yuma yisatu ya CIA yakeñekaña kuyitwala hambidi kulonda yizatikeña chiwahi.

Muniwu mukuku wamazu, nhsohelu yakwila nawu **kuzhinda** hinshimbi yakañeshaña antu kwikala nansañu, **kashinshi** hikukuhwelela chikupu nawu nsañu yeniyi yalala nawu atela kuyikuhwelela, nawa **kuwanikewa** hikukuhwelela nawu nsañu yeniyi anateli kuiwana kudi antu etezhewa kuzatisha nsañu yeniyi.

Kuzhinda, kashinshi, kuwanikewa

Iyi yuma yisatu yinalondeluhu diyu yuma yalema yatuña yuma yisatu ya CIA:

- **Kuzhinda** dikwila nawu azataña nañovu kulonda kuzhinda nsañu yalema hakwila muntu yabula kwitezhawu yawani nsañu yeniyi. Nsañu ayihembaña kwesekezha nakutoha nimutapu wawubanzhi wunateli kumwekana neyi nsañu yeniyi yiholokela mumakasa amuntu watama. Anateli kushahu nshimbi yakola chikupu hela nehi kwesekezha namutapu wenowu.
- **Kashinshi** kabombelamu kuhemba nsañu yeniyi chakadi kuyihimpa, yalala nawa yinateli kukuhwelelawu yaaka yezhima. Nsañu hiyatela kuyihimpaku neyi anakuyitwala kwacheñi, nawa atela kuzata nañovu kulonda muntu wabula lusesa yabuli kuhimpa nsañu yenoyu (chakatalilahu, kufumpa nshimbi yakazhindilu)
- **Kuwanikewa** dikwila nawu nsañu yatela kwikalaku kala mpinji nawa atela kuyiwana kudi antu atezhewa. Chumichi chabombela kuhemba chiwahi makina nimatala mwahembelañawu nsañu yeniyi

Kuzhinda

Chakatalilahu chachiwahi hanzhila zhazatishanawu hakwila amoni chikupu nawu anazhindi nsañu hikwikala nanaambala yaakawunti hela kukisañana manambala neyi munakuzatisha nsañu yanyambawulu haintaneti. Kusoneka nsanu munzhila yikubula kutañawu kudi kala muntu inzhila yikwawu yavula kuzatishawu hakuzhinda. Mazhina ahakompyuta nimapasiwedi diyu nzhila yinakuzatika; nzhila zhiyedi zhakwilukilahu (*two-factor authentication, 2FA*) anakuyizatisha dikalu. Nzhila zhikwawu zhinabombelumu **kwiluka** na

Yinjikizhilu yamuntu (**Biometric verification**) niyuma yikweti yinjikizhilu yakala kwiluka hela yabula kukala chikupu.

hakompyuta.

Kashinshi

Nzhila zhenizhi zhabombela chetezhawu muntu kushinkula nsañu yenoyu hakompyuta nikuyizatisha. Kubombelahu, yipompelu yatela kushaku yinjikizhilu yatela kuyikwasha kwiluka neyi nsañu yinahimpewi hamuloña wakubula kukuyikwata kudi muntu chidi neyi (*electromagnetic pulse, EMP*) hela neyi kompyuta yinafwi.

Kuwanikewa

Chumichi chazatikaña chiwahi neyi mwiluka chikupu nenu munakuhemba chiwahi makompyuta, kuloñesha makompyuta chakadi kuumba mpinji neyi chinakukeñeka nikuhemba chiwahi (*operating system, OS*) kulonda yibuli kukisika. Chikuswezha cheñi kuwaha neyi mukwilaña apudeti sisitimu yenu.

Chaaku chachiwahi chakuzatisha yuma yisatu ya CIA

Hakuzatisha yuma yisatu ya CIA, chipompelu chatela kulondela yaaku yayiwahi yekalaku. Yaaku yikwawu yisatu yambulawu muniyi nsañu yisatu yabombelamu:

Kuzhinda

1. Nsañu atela kuyizatisha kwesekezha nayuma yetezhewa munsañu yakuzhinda yachipompelu.
Nsañu atela kuyisoneka munzhila yakubula kutañawu kudi kala muntu kuzatisha 2FA.
2. Kuhemba nsañu yakatataka yandandanda yawantu amonaña nsañu yeniyi nichetezhawu muntu kushinkula nsañu yenoyu

Kashinshi

Kwiluka chikupu nenu akwanyidimu eluka nshimbi nikwovwahila yuma yakeñekaña kulonda kukeheshaku yiluwa yawantu. Zatishenu masofutiweya abakapu niakuwana nachu nsañu yazhimbala.

Hakwila mwiluki chikupu nenu kashinshi kanakuzatishewa, zatishenu, *version control, access control, security control, data logs ni checksums*.

Kuwanikewa

Zatishenu nzhila zhakukañesha zhidi neyi *redundancy, failover* ni *RAID*. Ilukenu chikupu nenu sisitimu nimaapulikesheni akwila apudati.

Zatishenu *network* hela *server monitoring systems*.

Ilukenu chikupu nenu mukweti yuma yakuwaninahu nsañu nikutwalekahu kuyizatisha hakwila muyizatishi neyi munazhimbeshi nsañu (*data recovery* ni *business continuity (BC)*).

CIA triad (Lunda) Yuma yisatu ya CIA

Confidentiality -- [kuzhinda](#)

Integrity -- [kashinshi](#)

Availability -- [kuwanikewa](#)



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