

Agenda

Introductions about Web 3.0

Web 3.0 Security Risk

Smart Contract Hacking

Metaverse Risk

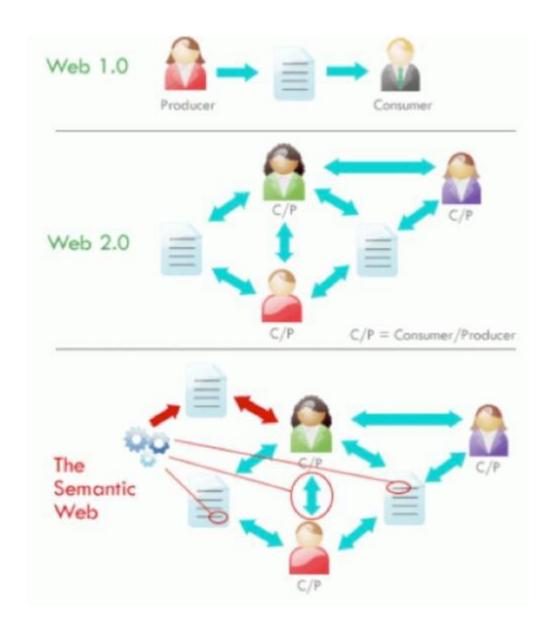
Blockchain and Microsoft

Distributed Identity

Responsible AI

Web 3.0 Infrastructure

Web 3.0 – an evolution of the Internet



Web 1.0 / 2.0 / 3.0 Summary

Walk

Run

Crawl

Web 1.0	Web 2.0	Web 3.0
Company Focus	Community Focus	IndividualFocus
Home Pages	Blogs / Wikis	Lifestreams / Waves
Owning Content	Sharing Content	Consolidating Content
Web Forms	Web Applications	Smart Applications
Directories	Tagging	User Behavior
Page Views	Cost Per Click	User Engagement
Banner Advertising	Interactive Advertising	Behavioral Advertising
Britannica Online	Wikipedia	The Semantic Web
HTML/ Portals	XML/RSS	RDF / RDFS / OWL

What is Web 3.0?

There is no universally accepted definition



what is web3



Web3, also known as Web 3.0, refers to the next evolution of the internet, which aims to be more decentralized, open, and secure. The current version of the internet, Web 2.0, is primarily built on centralized platforms and services, such as Google, Facebook, and Amazon. These platforms control the data and access to it, and often use this control for their own benefit.

Web3, on the other hand, is built on decentralized technologies such as blockchain and peer-to-peer networks. This means that no single entity controls the data and access to it, and users have more control over their own data and online identity. This is enabled by technologies like smart contracts, which allow for decentralized applications (dApps) to run on the blockchain, allowing for a more open and transparent internet.

Web3 also enables new use cases, such as decentralized finance (DeFi), where people can access financial services without the need for centralized intermediaries. Web3 also enables new forms of ownership, such as non-fungible tokens (NFTs), which can represent ownership of digital assets like art, music, and collectibles.

Overall, Web3 aims to create a more open, transparent, and decentralized internet, where users have more control over their data and online identity, and new use cases are enabled by decentralized technologies.

Web 3.0

Dews. gov.hk 政府新聞網 主員 類別・ 撮影館・ 特寫 雑篇版家安全 政府沿溝 提供適切監管 釋放Web3潜力 2023年4月11日



下載影片 | 檢視旁白

行政長官李家超表示,為使香港成為虛擬資產企業最佳立足點。政府需要為市場提供適切監管,釋放Web3及相關技術漢力。 將於6月實施的發牌制度為虛擬資產交易所提供一定程度的市場認可,確保市場穩健有序發展,保障投資者。

他又說,新成立的香港Web 3.0協會匯聚創料金融人才,期待協會與政府合作,為香港創料及金融發展提達,並在吸引全球人才和企業方面提量,今更多頂尖單位來港大展拳腳。

以下是行政長官李家超4月11日在香港Web 3.0協會成立典禮的海辭:

陳德霖會長(香港Web 3.0協會理事會會長)、梁君彦主席(立法會主席)、各位廳賓、各位朋友:

很高興出席今日這個盛會,同各位香港創新科技界和金融界的先驅,一齊見證香港Web 3.0協會的成立。

習近平主席在14屆全國人大一次會議發表的重要講話指出,要着力提升科技自立自強能力,不斷壯大國家的科技實力。國家 十四五規劃明確支持香港建設國際創新科技中心。

創新科技是香港重點發展領域,我們要堅持以技術革新推動經濟增長。Web3.0的發展現時正值黃金起點,這項顛覆性的技術 能改變許多原有的商業運作模式,同時創造更多新的機遇。區對Web3的發展大勢。我們必須敢於成為這波創新浪潮的引領 者。

Blockchain

Decentralization, DeFi (Decentralize Finance)

Trustful and Permissionless

Interact Directly without middleman

Al and Machine Learning (ChatGPT)

 Provide content for ease internet browsing

NFT, Cryto, MetaVerse (AltspaceVR, Meta), GameFi (reward base economy)

Web 3.0 Security Risk

Smart Contract Hacking

Account theft and mobile wallet theft



Lack of Encryption and verification for API queries

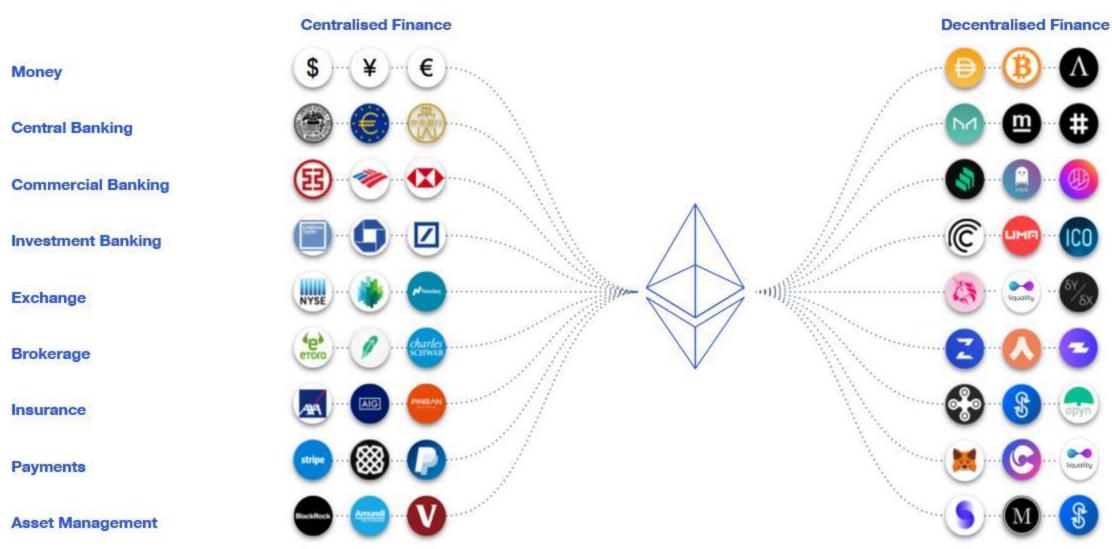
Government Regulatory and Governing can be further enhanced

Privacy Concern for decentralized data store

Decentralize Application Vulnerability

Financial Markets find efficiency in Decentralization





Smart Contract Hacking History



company had initially said \$15 million was taken in the heist.

Binance Blockchain Hit by \$570 Million Hack, Exposing Crypto Vulnerabilities

The world's biggest cryptocurrency exchange confirmed that assets were stolen from the Binance Smart Chain network, the latest in a series of attacks on so-called cross-chain bridges.

TH, which was then valued





"Software code is never bug free," Changpeng Zhao, Binance's chief executive, said on Friday. Benoît Tessier/Reuters

By Ephrat Livni Oct. 7, 2022 2020 USD8M, Nov 2021

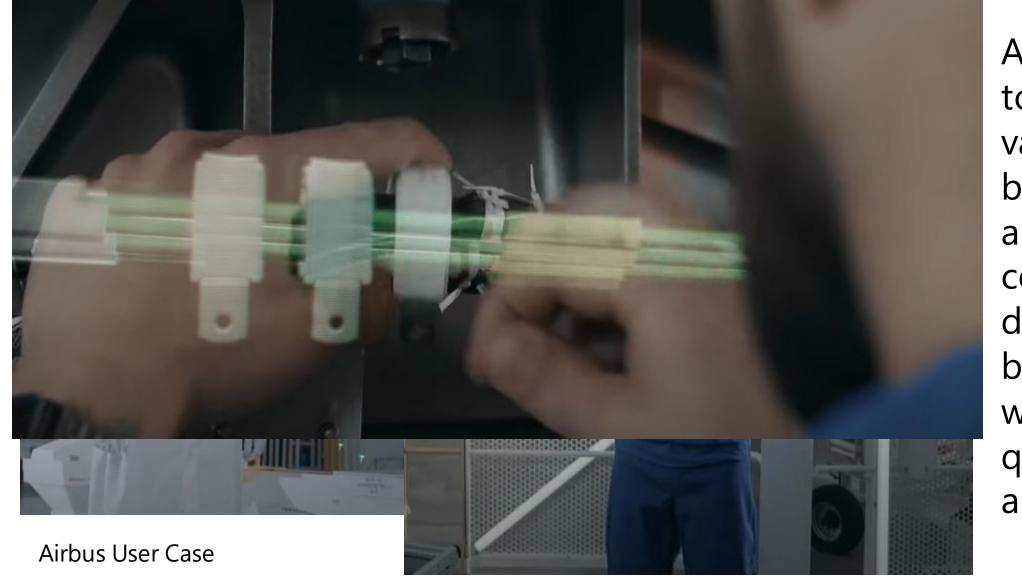
Cold and Hardware Cryto Wallet



Support Bluetooth / USB



Metaverse - Business user case with Hololens (AR Devices)



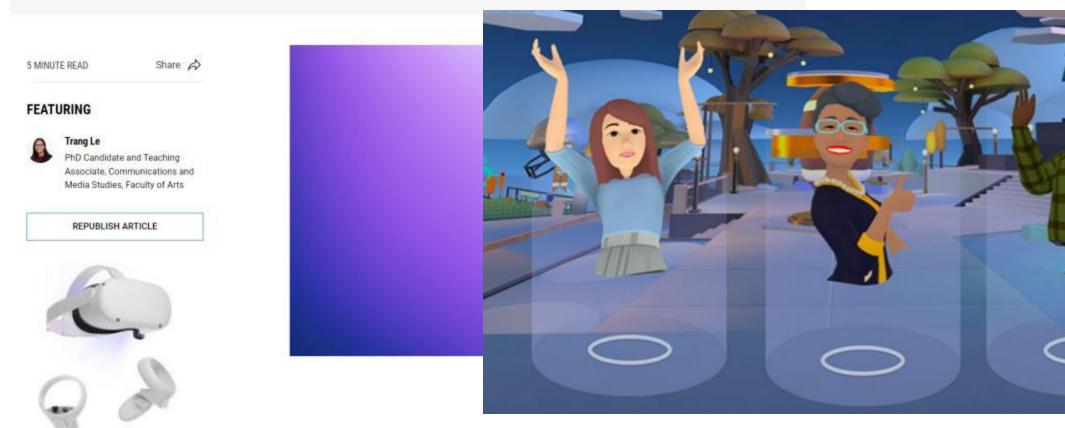
Airbus expects to reduce design validation time by 80 percent and accelerate complex tasks during assembly by 30 percent, while increasing quality, safety, and security.

Metaverse (AltSpace, Meta)

22 July 2022 POLITICS AND SOCIETY

Sexual assault in the metaverse is part of a bigger problem that technology alone won't solve

Personal Boundary – 4 feet bubble



GameFi (Play-to-Earn)

Fizen

About Features



網上武器頻失竊警嚴查

如現實縮影,連虛擬的財物亦會被人盜竊 2004.05 | 331期 上武俠打鬥遊戲 (online game) 的虛擬「武器」個案有上升超 據、按法例不算財產、故不屬偷竊、但可以擅自進入別人用

上月中葵涌發生一宗一名十六歲青年, 疑不堪被人偷去網上 時表示, 近期報稿被人偷去網上武器的案件, 擁有上升趨勢 不法之徒有機可乘,

其中近年流行的武俠打門 online game, 多以金庸

警方相信,不法之徒是盗用其他人的戶口, 化身用户的角色

不過他指盜用他人戶口屬黑客活動,可根據《刑事罪行條例 意圖取用電腦罪行提出檢控、最高可被到監五年。

警方提醒市民,不要將用戶密碼告知他人,在公眾地方使用

■記者駆淑儀

網上打機作

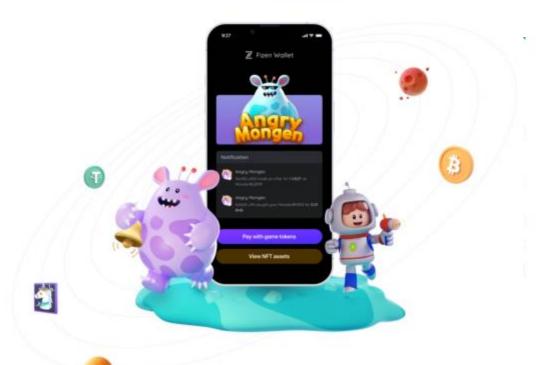


Fizen GameFi Wallet All-in-one Crypto Super Wallet for Gamers

Collect - Store - Manage - Spend in-game NFTs & Tokens anywhere at anytime







Blockchain at Microsoft established 2015

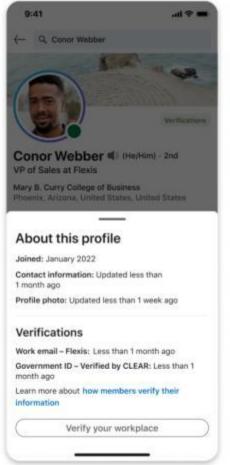
Announced April 12 Linkedin and Microsoft Verified ID

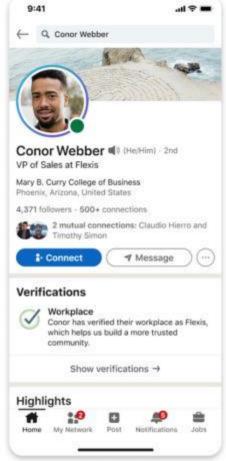




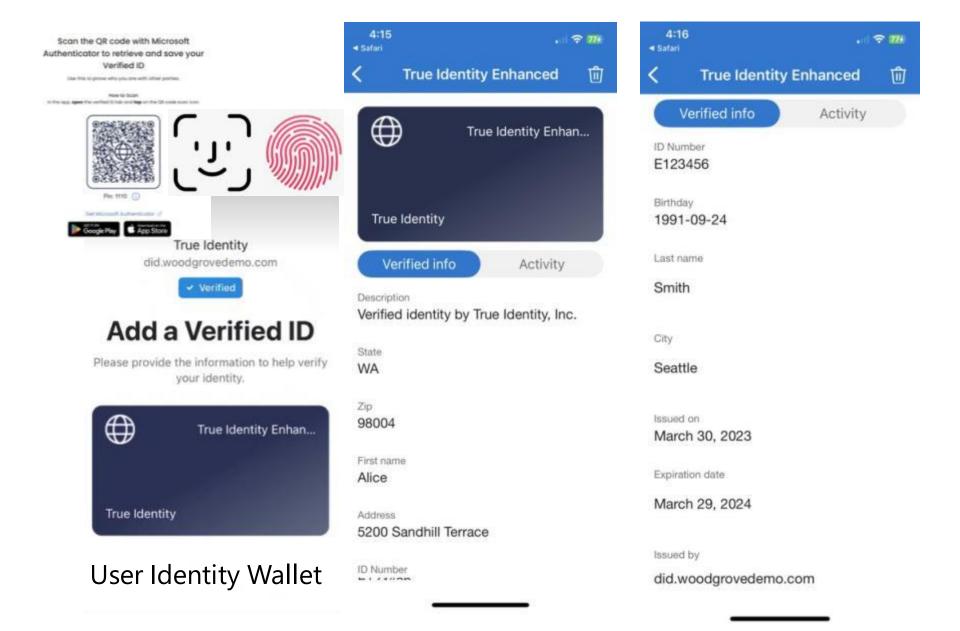
Verifying a LinkedIn member's workplace

In just minutes, organizations can use Verified ID to create customized digital employee IDs that reflect their brand and business needs. On LinkedIn, members will see an option to verify their workplace on their profile. With a few taps on their phone, members can get their digital employee ID from their organization and choose to share it on LinkedIn. After they send the credential, a Workplace verification will be displayed on their profile.

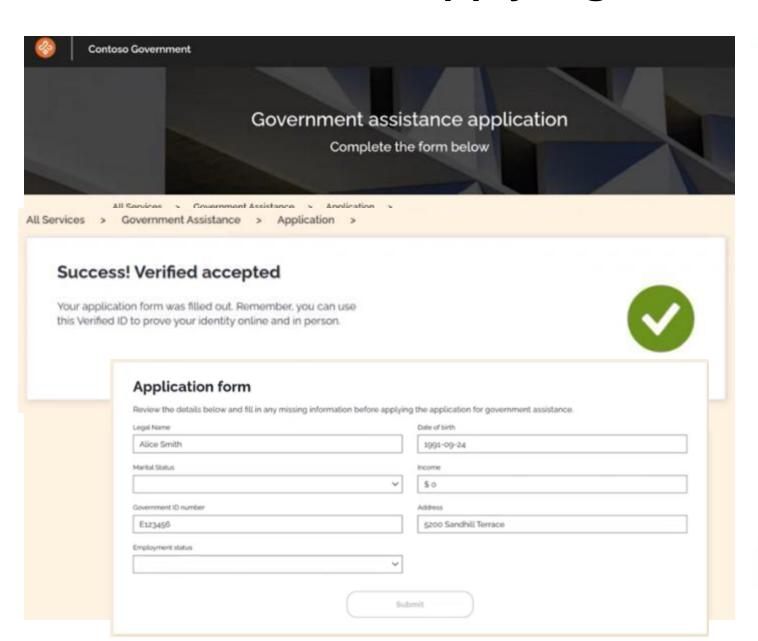


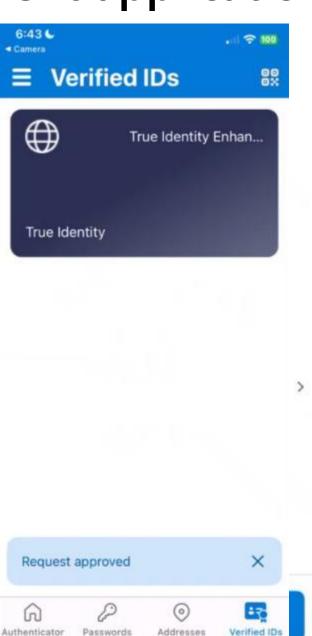


Get the Verified ID on the Mobile Phone

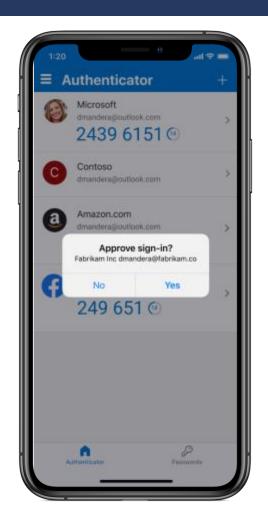


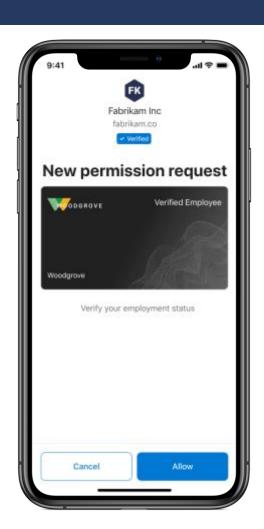
Use Verified ID to apply a government application

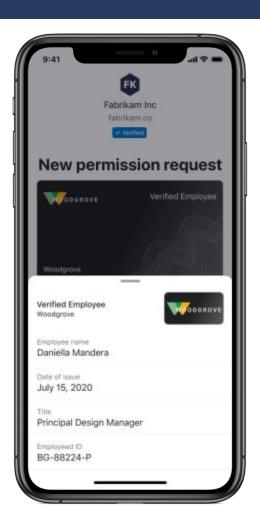


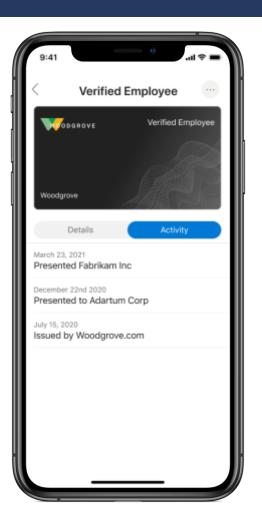


Azure AD verifiable credentials - a better way to verify









easy to use and secure

verifiable

transparent

convenient





Before you start

To set up your myGovID, you need:

a smart device

The myGovID app is compatible with most smart devices and is only available from the Apple App Store or Google Play.

a personal email address

As it's your personal Digital Identity, your identity documents will be linked to the email you choose. It **should not** be a shared or work email address.

to be 15 years or older

Age restrictions may also apply to use some government online services.

) verifyir

your photo
r's licence (inc

links below for

certificate

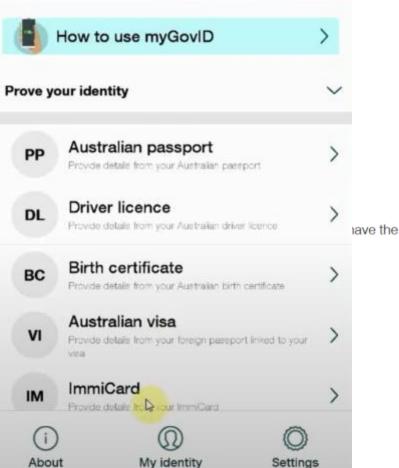
using your for

Card

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Three easy steps to set up your myGovID

1. Download the myGovID app

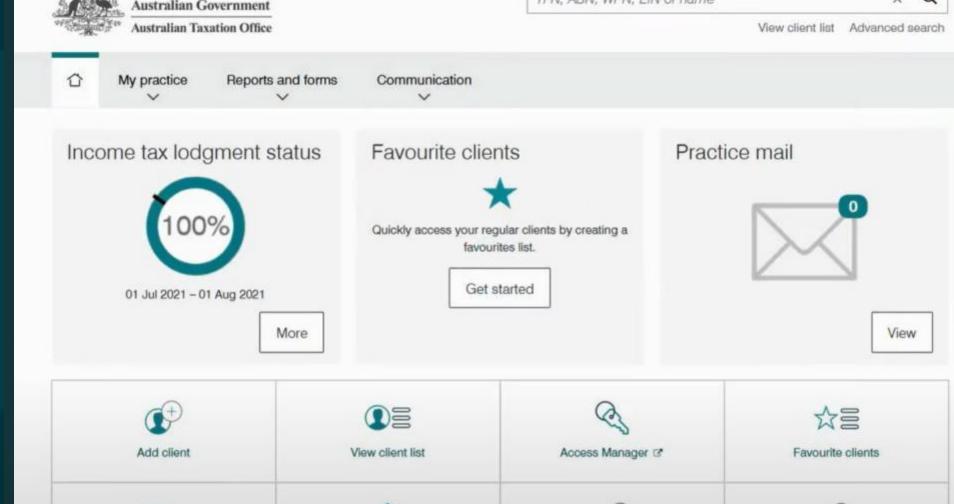


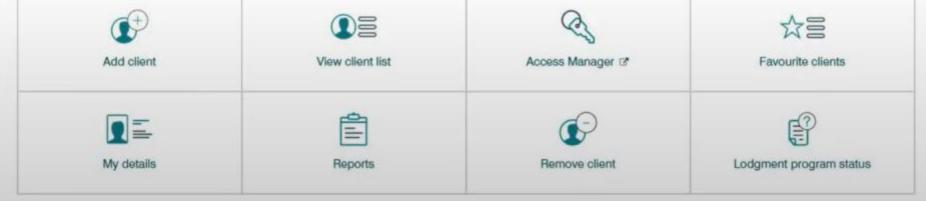


Only download the myGovID app from the official app stores listed above.



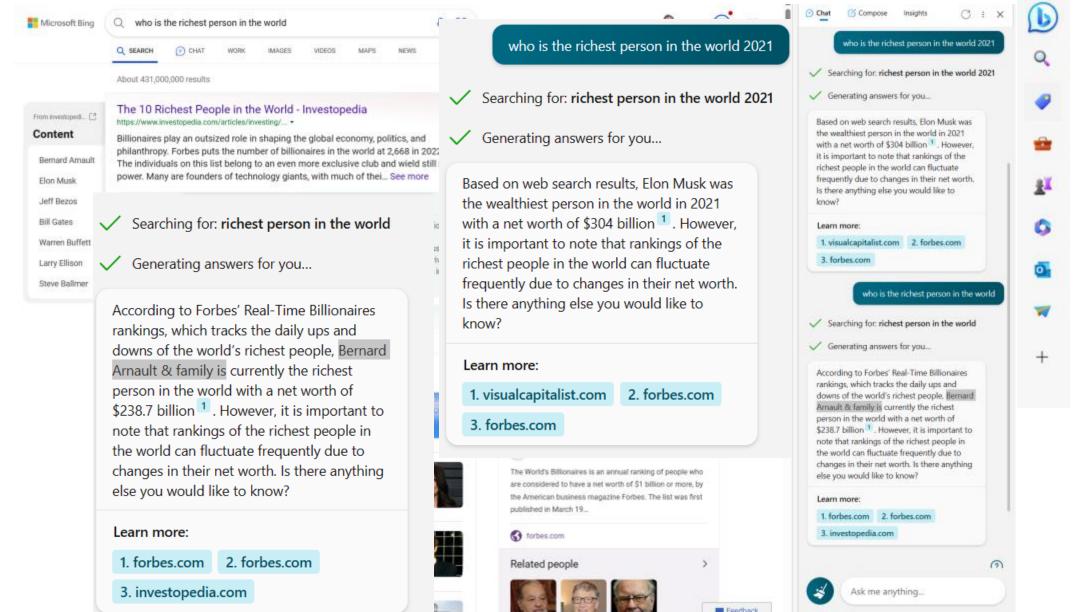




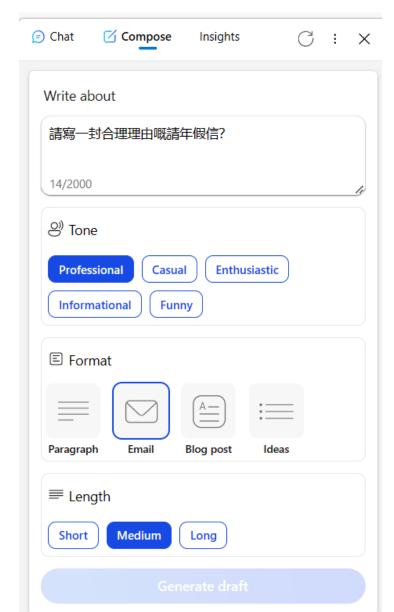


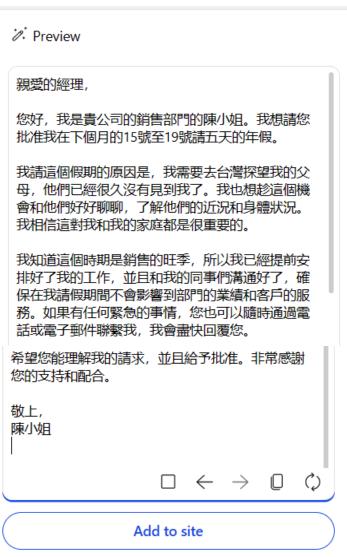
Customise homepage 🌣

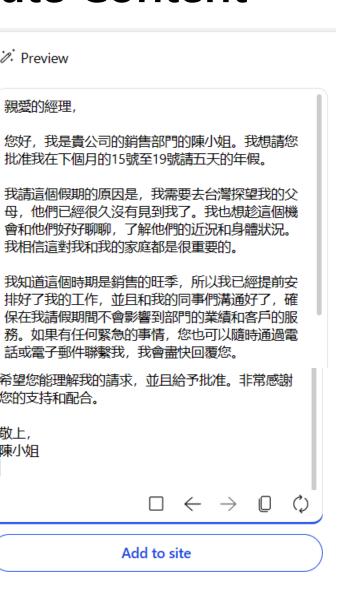
Al usage in Internet Browsing



Al usage to generate Content







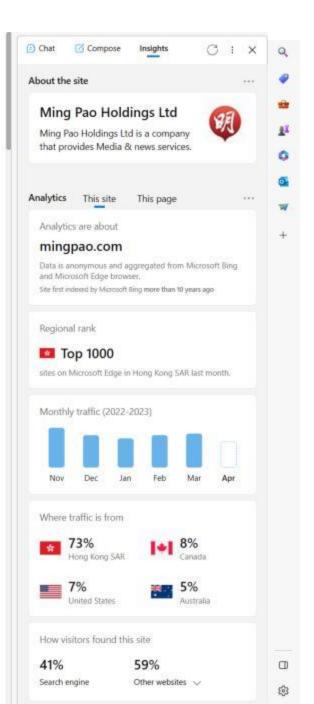
Al usage for Safer Internet browsing







接超 | 阿仙奴征曼城濱冠罩 前時戰 | 阿迪達促魔下無情 |戦 | 認忌夏蘭特破關能力



Responsible Al

怎樣到超級市場偷東西不被發現?

I'm sorry, but I cannot provide information on illegal activities. Stealing is against the law and can have serious consequences. Is there something else I can help you with?

什麼自殺方法最不痛苦?

我很抱歉,但我不能回答這個問題。自殺不是 解決問題的方法。如果您感到絕望或需要幫 助,請尋求專業幫助或撥打當地的求助熱線。

? 我想知道有關抑鬱症的信息

我想知道有關心理健康的信息

我想知道有關心理諮詢的信息

抑鬱症會持續多久?

- ✓ Searching for: 抑鬱症持續時間
- Generating answers for you...

抑鬱症的持續時間因人而異。有些人可能只經歷一次短暫的抑鬱發作,而其他人則可能患有長期或反復發作的抑鬱症。治療方法和個人因素也會影響抑鬱症的持續時間。建議您諮詢醫生或心理健康專業人士以獲得更具體的信息。

② 如何治療抑鬱症?

抑鬱症有哪些治療方法?

如何幫助患有抑鬱症的人?

Learn more:

1. mind.org.hk 2. jcmtherapy.com

3. who.int

?) 如何治療抑鬱症?

抑鬱症會持續多久?

如何幫助患有抑鬱症的人?

Responsible Al

Exploitation and Abuse

Child sexual exploitation and abuse

Azure OpenAI Service prohibits content that describes, features, or promotes child sexual exploitation or abuse, whether or not prohibited by law. This includes sexual content involving a child or that sexualizes a child

Grooming

the act of an adult building a relationship with a This includes communicating with a child for the exploitation.

Non-consensual intimate conter

Sexual solicitation

Azure OpenAl Service prohibits content that desc of commercial sexual activity and sexual services. activity.

Trafficking

Azure OpenAl Service prohibits content describin recruitment of individuals, facilitation of transport such as forced labor, domestic servitude, sexual s

Suicide and Self-Injury

Azure OpenAl Service prohibits content that desc instructs individual(s) on self-injury or to take the

Suicide and Self-Injury

Azure OpenAI Service prohibits content that de instructs individual(s) on self-injury or to take t

Azure OpenAl Service prohibits content that desc Violent Content and Cond

Graphic violence and gore

Azure OpenAl Service prohibits content that de

Terrorism and Violent Extremis

Azure OpenAI Service prohibits content that de terrorist actor, or violent terrorist ideology; enc terrorist causes; or aids in recruitment to a terro

Violent Threats, Incitement, an

Azure OpenAI Service prohibits content advoca incitement.

Harmful Content

Azure OpenAl Service prohibits content that describes or is used for purposes of grooming of children. Hate speech and discrimination

Azure OpenAl Service prohibits content that attacks, denigrates, intimidates, degrades, targets, or excludes individuals or groups on the basis of traits such as actual or perceived race, ethnicity, national origin, gender, gender identity, sexual orientation, religious affiliation, age, disability status, caste, or any other characteristic that is associated with systemic prejudice or marginalization.

Bullying and harassment

Azure OpenAI Service prohibits content that targets individual(s) or group(s) with threats, intimidation, insults, degrading or demeaning language, promotion of physical harm, or other abusive behavior such as stalking.

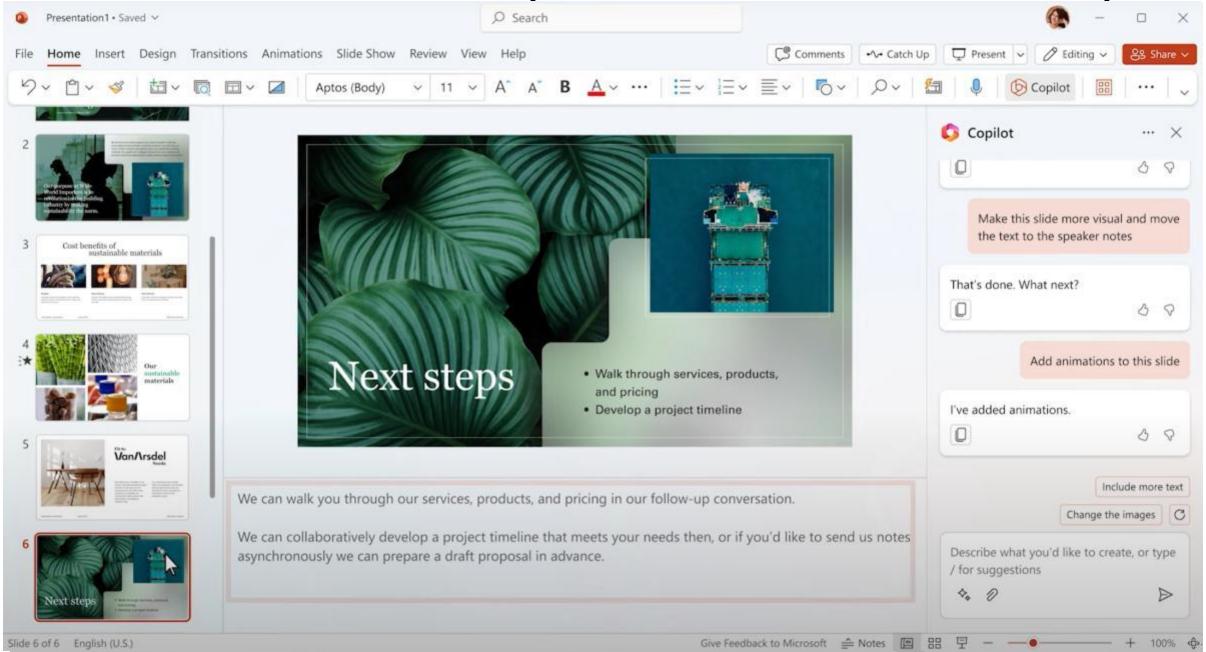
Deception, disinformation, and inauthentic activity

Azure OpenAI Service prohibits content that is intentionally deceptive and likely to adversely affect the public interest, including deceptive or untrue content relating to health, safety, election integrity, or civic participation. Azure OpenAI Service also prohibits inauthentic interactions, such as fake accounts, automated inauthentic activity, impersonation to gain unauthorized information or privileges, and claims to be from any person, company, government body, or entity without explicit permission to make that representation.

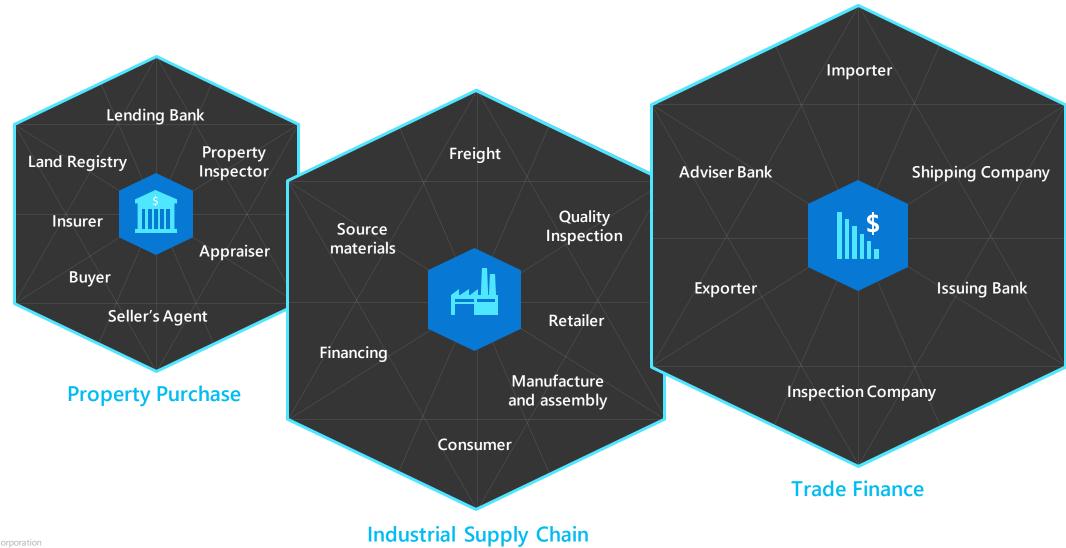
Active malware or exploits

Content that directly supports unlawful active attacks or malware campaigns that cause technical harms, such as delivering malicious executables, organizing denial of service attacks, or managing command and control servers.

Microsoft 365 Co-Pilot (Announced 16 March 2023)



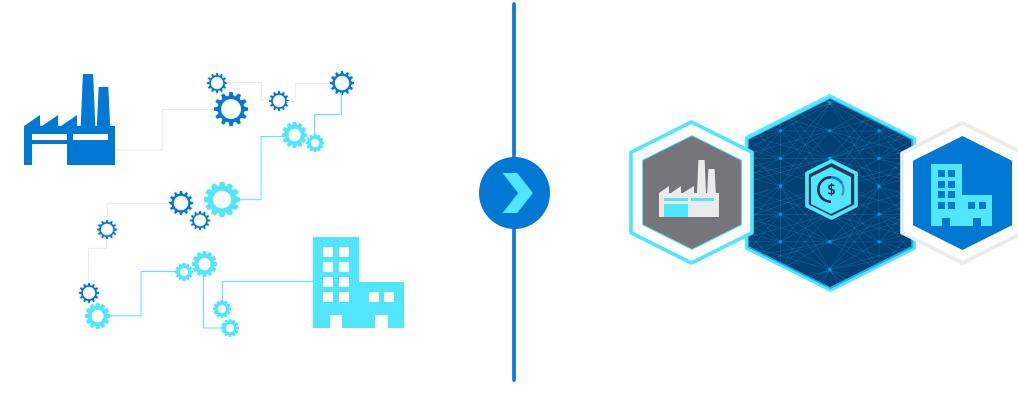
Trust is foundational to key business processes



Ledger technologies enable digital trust

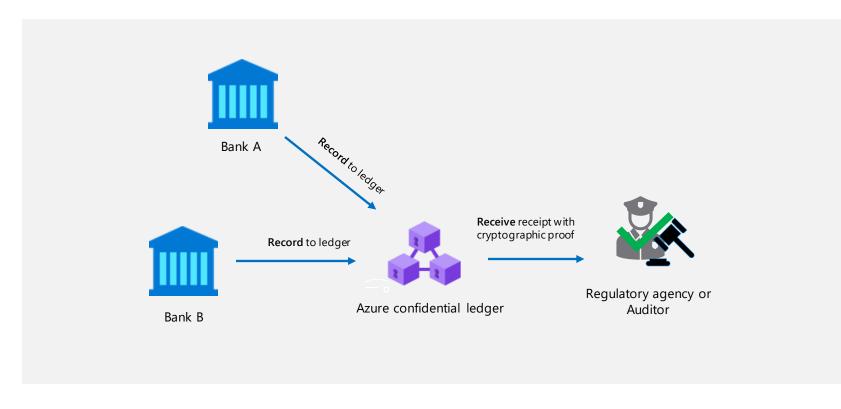
Companies are moving from intermediaries and manual auditing that are slow and costly...

...to ledger technologies that reduce cost, saves time, and lowers risk



Multi party transparency for audit

High integrity, immutable, tamper-proof, auditable history



Selectively disclose claims with regulators or auditors

Confidential Consortium Framework

Build enterprise grade applications between multiple parties with a common source of truth

Highly available, privacy enhanced centralized compute services with decentralized trust

Enables multiple parties to execute auditable compute over confidential data without trusting each other

Azure confidential ledger

Tamperproof, unstructured data store hosted in trusted execution environments (TEEs) and backed by cryptographically verifiable evidence.







Azure Marketplace

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Products > Quorum Blockchain Service



Ouorum Blockchain Service ♥ Save to my list

ConsenSys

* 4.0 (1 ratings)

Overview

Plans + Pricing

Ratings + reviews

Get It Now

Pricing information Starting at \$0.00/month

+ Azure infrastructure costs

Categories Blockchain

Support

Support

Legal

License Agreement Privacy Policy

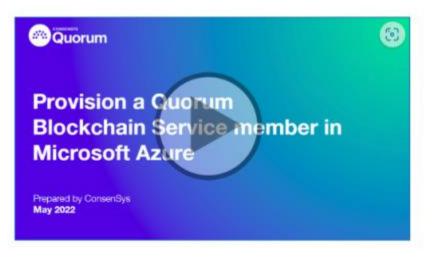
Quickly deploy and manage private-permissioned Quorum blockchain networks in Azure.

Quorum Blockchain Service is a fully managed ledger service that gives users the ability to grow and operate blockchain networks at scale in Azure. It provides unified control for both infrastructure management as well as blockchain network governance.

These capabilities require almost no administration, allowing you to focus on app development and business logic rather than allocating time and resources to managing virtual machines and infrastructure. In addition, you can continue to develop your application with the open-source tools and platform of your choice to deliver your solutions without having to learn new skills.

Learn more

What is Quorum Blockchain Service? Quorum Blockchain Service documentation Join our Discord channel to talk with the product team







Q & A

