Microsoft

and how its products, partnerships, and strategy align with the cryptocurrency / blockchain ecosystem today.

Microsoft is not a crypto-native company, but it has played a persistent and evolving role in the blockchain and crypto ecosystem. Its work emphasizes **enterprise-grade cloud infrastructure,**

identity (DIDs / verifiable credentials), confidential/ immutable ledgers, developer tooling, and partnerships (rather than running a consumer-facing crypto exchange). Over time Microsoft moved from running its own Azure Blockchain Service to partnering with specialist blockchain firms, while building purpose-built services (e.g., Azure Confidential Ledger, Entra

Verified ID / ION) that support crypto/Web3 use cases in enterprise, identity, gaming, and regulated industries.

Short timeline / milestones (important anchors)

- **2014:** Microsoft began accepting Bitcoin for certain digital purchases (Windows/Xbox content),

an early consumer-facing embrace of crypto payments.

- **2015:** Microsoft launched Ethereum Blockchain-as-a-Service (in partnership with ConsenSys) to make it easier for enterprises and developers to experiment on Azure.

- **2019–2021:** Microsoft offered Azure Blockchain Services and related tooling

but **retired Azure Blockchain Service** in 2021 and directed customers to partner-managed offerings (e.g., ConsenSys/Quorum). This marks a strategic pivot from running a full blockchain PaaS itself to enabling partner solutions and building complementary services.

- **2021 onward:** Microsoft launched **ION** (a decentralized,

permissionless DID network built on Bitcoin using Sidetree) and promoted Decentralized Identifiers / verifiable credentials as part of its identity strategy.

- **2022–present:** Microsoft introduced and matured **Azure Confidential Ledger** (a tamper-evident, immutable ledger service focused on secure, auditable records for

enterprises) and continued to expand Web3-focused solutions and marketplace offerings (including managed node deployments).

Where Microsoft actually participates (products and initiatives)

Azure cloud + Web3 developer support

- Azure positions itself as a cloud platform where enterprises can host blockchain nodes, smart contracts, or Web3 apps. Microsoft emphasizes the cloud, tooling, and managed infrastructure rather than running decentralized consensus for public blockchains themselves. Azure’s Web3

pages and Marketplace include managed node and blockchain partner offerings (for Ethereum/ Quorum/Bitcoin nodes).

Azure Confidential Ledger

- A managed tamper-evident ledger service built with confidential computing enclaves to provide immutable, auditable records for sensitive enterprise data (useful for supply chain proofs, chain-

of-custody logs, legal records, etc.). This is not a general-purpose public blockchain but a permissioned immutable store that addresses enterprise integrity needs.

Identity: Entra Verified ID & ION

- Microsoft is a major proponent of **decentralized identity**. Microsoft helped develop **ION**, a public, permissionless Sidetree-

based DID network anchored on Bitcoin to enable decentralized identifiers at scale. In parallel, Microsoft's **Entra Verified ID** provides enterprise tooling to issue and verify verifiable credentials — a building block for Web3 identity, KYC/AML-compatible flows, and interoperability with crypto wallets and credential wallets. These identity projects are among

the clearest alignments with blockchain primitives (DID/verifiable credentials).

Partnerships & migration approach

- After retiring its own Azure Blockchain Service, Microsoft pivoted to partner models (notably ConsenSys / Quorum) and marketplace offers, supporting enterprise migrations and partner-managed blockchain

stacks. That reflects a strategy of enabling the crypto ecosystem via cloud + partners rather than owning specialized blockchain infrastructure indefinitely.

Gaming & consumer-facing experiments

- Microsoft accepted Bitcoin for store credit in 2014 (Xbox / Windows digital goods). In gaming, Microsoft’s posture is

mixed: it has explored blockchain concepts (royalties, asset tracking), there have been public leak reports about possible future Xbox wallet support, but Microsoft's consumer platforms also placed restrictions (Minecraft at one point banned NFTs on servers). Overall, Microsoft's consumer-facing crypto moves have been cautious and contextual (e.g., gaming

safety, asset use policies).

Typical enterprise use cases Microsoft supports

- **Immutable audit logs and compliance** (via Confidential Ledger).

- **Decentralized identity & credentialing** (Entra Verified ID + ION) for cross-

organization verification without central credential stores.

- **Managed blockchain infrastructure & node hosting** (Azure + partners) for exchanges, financial institutions, and enterprise blockchains.

- **Tokenization/royalties and supply-chain provenance prototypes** (partnered solutions & pilot projects).

These use cases emphasize **integrity, identity, auditability, and regulated/permissioned deployments** more than speculative token markets.

Strategic posture — what Microsoft *wants* to be in crypto/Web3

- **Infrastructure and platform provider**: supply the cloud, identity services, confidential computing, and managed node capabilities so enterprises can adopt blockchain where it makes sense.

- **Identity-first**: pursue decentralized identity standards and tooling (Entra / ION) as foundational to many Web3 scenarios.

- **Partner-driven**: collaborate with blockchain specialists (e.g., ConsenSys, Quorum, other marketplace vendors) rather than attempt to own every layer of blockchain stacks.

Strengths Microsoft brings to crypto projects

- **Scale, security, compliance & enterprise SLAs** — a trusted cloud provider for enterprises operating under regulation.

- **Integration with existing enterprise identity and cloud ecosystems** (Azure Active Directory, Entra).

- **Confidential computing and hardware-backed attestation** useful for high-assurance blockchain/

logging scenarios.

Limitations / caveats

- Microsoft is **not** a crypto-native custodian or retail crypto exchange: it generally avoids operating consumer crypto markets or token issuance as a primary business.

- The company **retired** its original Azure Blockchain Service in 2021 — a reminder it will pivot away from direct blockchain PaaS if market demand or focus shifts; instead it now **enables** the ecosystem via partners and platform services.

- Microsoft's consumer-facing gaming policies are cautious (examples: Minecraft's stance on

NFTs), and public signals (leaks about Xbox wallets) are exploratory rather than product commitments.

What that means for developers, enterprises, and crypto projects

- **Enterprises** looking for compliance, auditability,

and identity-integrated blockchain solutions should evaluate Microsoft's Confidential Ledger and Entra Verified ID as building blocks.

- **Developers** who need hosted nodes or to run private/permissioned networks will often use Azure plus partner offerings (e.g., ConsenSys) rather than expect a single Azure-native blockchain

PaaS.

- **Web3 identity projects** can interoperate with Microsoft’s DID work (ION) and Entra tooling — useful for verifiable credential standards adoption.

Citation

Bradford, D. (n.d.). *Microsoft Azure and ConsenSys Quorum Blockchain Service: Using blockchain to enable companies to apply the SDGs*. Retrieved from https://www.deannabradford.com/articles/microsoft-azure-and-consensys-quorum-blockchain-service-using-

blockchain-to-enable-companies-to-apply-the-sdgs

Chik, J. (2019, May 15). Decentralized identity and the path to digital privacy. *Microsoft Security Blog*. Retrieved from https://www.microsoft.com/en-us/security/blog/2019/05/15/decentralized-identity-digital-privacy/

Mackie, K. (2021, March 31). Microsoft unveils ION version

1 for decentralized identities. *Redmond Magazine*. Retrieved from https://redmondmag.com/articles/2021/03/31/microsoft-ion-for-decentralized-identities.aspx

Microsoft. (2021, March 25). ION – We have liftoff! *Microsoft Security Community Blog*. Retrieved from https://techcommunity.microsoft.com/blog/microsoft-security-blog/ion-%E2%80%93-we-

have-liftoff/1441555

Microsoft. (2022, July 19). Azure Confidential Ledger is now Generally Available! *Azure Confidential Computing Blog*. Retrieved from https://techcommunity.microsoft.com/t5/azure-confidential-computing/azure-confidential-ledger-is-now-generally-available/ba-p/3573336

Microsoft. (2025, April 14). Microsoft Azure confidential

ledger. *Microsoft Learn*. Retrieved from https://learn.microsoft.com/en-us/azure/confidential-ledger/overview

Microsoft. (n.d.). Confidential Consortium Framework (CCF). *Microsoft Research*. Retrieved from https://www.microsoft.com/en-us/research/project/confidential-consortium-framework/

Microsoft. (2021, September

17). Microsoft Blockchain Service discontinued [Microsoft Q&A]. Retrieved from https://learn.microsoft.com/en-us/answers/questions/556870/microsoft-blockchain-service-discontinued

Microsoft. (n.d.). Microsoft Azure and ConsenSys Quorum (GlobalStudies7_04). Retrieved from https://mu.repo.nii.ac.jp/record/1988/files/

Globalstudies7_04.pdf

Microsoft. (2021, May 13). Microsoft to shutter its Azure Blockchain Service this autumn. *CoinDesk*. Retrieved from https://www.coindesk.com/business/2021/05/13/microsoft-to-shutter-its-azure-blockchain-service-this-autumn

Microsoft. (n.d.). Azure confidential ledger – Distributed Ledger

Technology | Microsoft Azure. Retrieved from https://azure.int.microsoft.com/en-us/products/azure-confidential-ledger/