

Distributed Systems & Blockchain in the News

- 01.11.2022: One million connections [link]
 - Horizontal scalinging, but: common problem with databases: connection limits → connection pooling
 - Scale up to maintain a total of one million open connections in under two minutes
 - 1000 AWS Lambdas open 1000 connections
- 04.11.2022: Billions being spent in metaverse land grab [link]
 - \$1.93b spent on virtual land in the past 12 months
 - 22m spent in Voxels
 - Luxury fashion brand Philipp Plein: \$1.5m

- "The crypto metaverses are generally sparsely populated and only really used when events are held, and even then only thousands, and not millions, of people attend."
- 03.10.2022: It's Time to Replace TCP in the Datacenter [link]
 - "Everything about TCP is wrong"
 - Stream orientation → datacenters exchange messages
 - Connection orientation \rightarrow 2000 bytes of state for each TCP socket
 - Bandwidth sharing → fair scheduling vs. SRPT (Shortest Remaining Processing Time)
 - Sender-driven congestion control → queues overflow and packets are dropped, leading to timeout
 - In-order packet delivery → assumes that out-of-order arrivals indicate packet drop
 - 01.11.2022: Comparing TCP and QUIC [link]
 - Some aspects improved over TCP



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- 29.10.2022: Wiring my home with Fiber [link]
 - Init7 provides 25Gbit/s → New HW, cables needed, fiber → splicing
 - 25Gibt/s + 10Gbit/s at home!
- 03.11.2022: October Crypto Recovery Comes with More NFT Traders, Hacks and Exploits [link]
 - NFT unique traders count increased by 18% reaching 1.11 million
 - Fractionalized NFTs
 - could be used as collateral

- "October has recorded the highest value of hacked and stolen crypto ~\$1.09b"
- 02.11.2022: Divisions in Sam Bankman-Fried's Crypto Empire Blur on His Trading Titan Alameda's Balance Sheet [link]
 - Next implosion?
 - Sam Bankman-Fried: FTX and Alameda Research as separate business
 - \$14.6 billion of assets in Alameda, but most FTT token from FTX
 - FTT issued by FTX to get trading fee discounts



