NET3

Whitepaper

Agenda *Technology* *Implications*

Intro-duction

Net3 is a new global, public network (much like the current Internet) where user supremacy is the core agenda. Net3 introduces a new Quantum-secure security protocol and encourages users to “change their frequency” to this new protocol.

Unlike the Internet or Tor (where viewership is the primary focus), Net3 is an execution platform, it provides for a way to easily run functions on a remote entity.

The proposed Net3 foundation will serve as the governance body that approves registered common names and looks after user interest on the network. Net3 foundation will be formed of regular users who will determine the path Net3 takes to become a true user-space.

01.

The agenda

Net3 has a bold agenda - it is user-space and everything that happens on the network is with user approval. Imagine users voting to halt a service on Net3 because the service stole cookies/data from users. Imagine a network where ownership of service is well documented and transparent. On Net3, every request is authenticated and there are no anonymous connections.

User-space

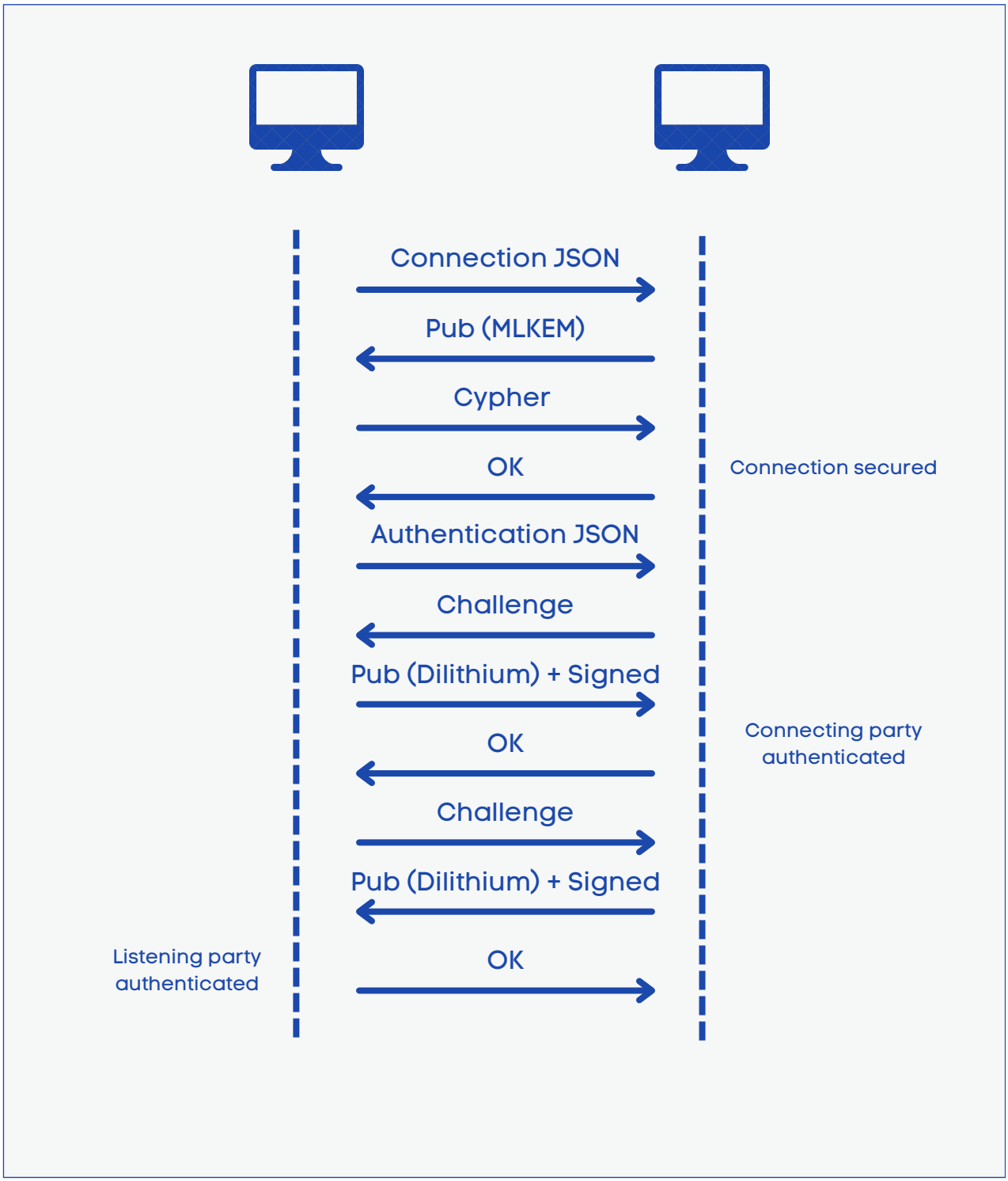
Net3 is a network run by people for the people. This is an organic project that hopes to encompass network connectivity, service provision and user interaction. This is exactly the decentralization that the Internet needs. Not just the web, the Net3 project envisions a different working mechanism for apps, IoT devices and more. Net3 is a trusted network of users where every connection has mutual authentication. The Net3 project does away with certificate authorities that centralize the Internet. Now, using Net3 two parties can trust each other without the involvement of a third party. Net3 also has its own registry of Common Names (CNs) that are more sensible and transparent.

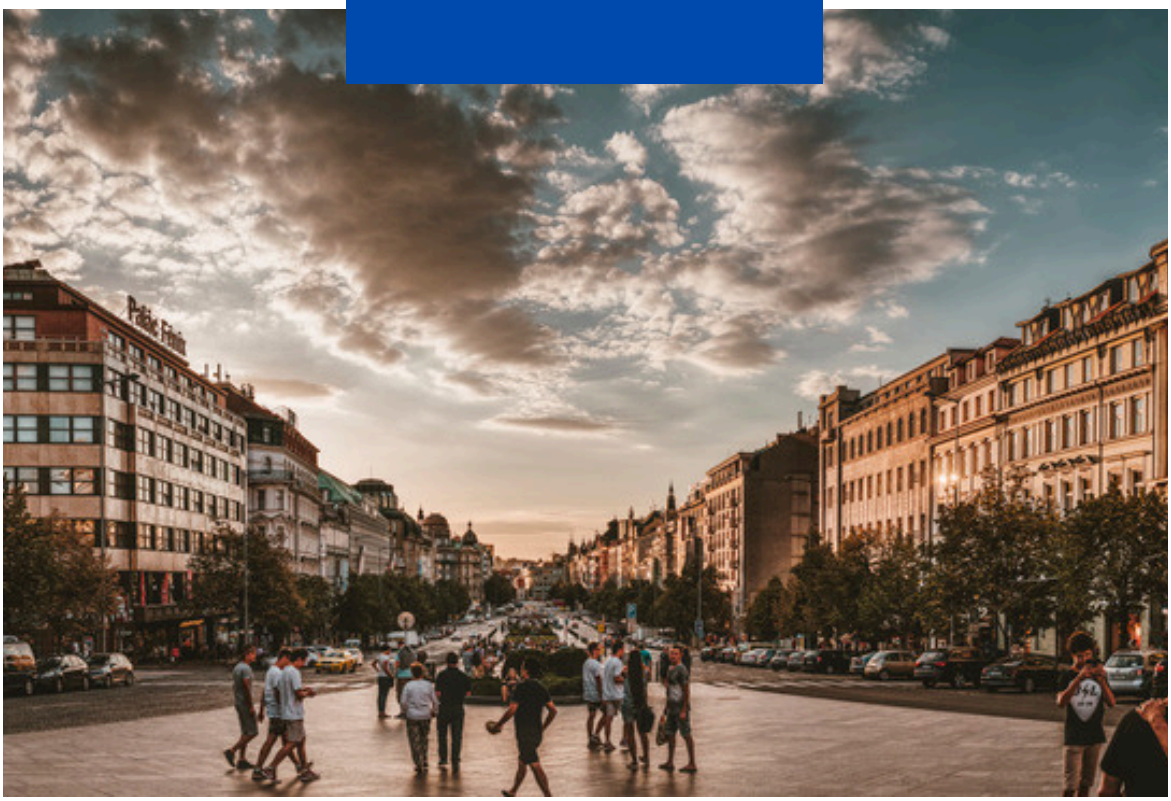
Net3 introduces a new algorithm for a secure handshake between devices/peers. This essentially changes the “frequency” at which devices speak to each other. Net3's secure handshake provides mutual authentication to both parties - there are no anonymous connection. The provision of security is without certificates and both parties can garner trust by using the Net3 protocol. The Net3 protocol uses Quantum-safe cryptographic algorithms to maintain top-notch security. The Net3 system provides a naming registry as well as a nomenclature to call remote functions.

02.

The technology

Net3 // Connection handshake





03.

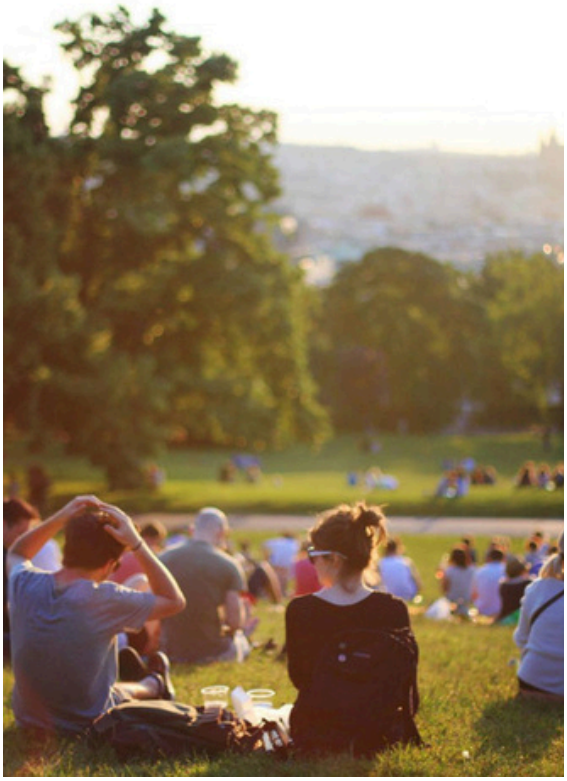
Common Names (CN)

Every entity on Net3 has a cryptographically derived ID. These IDs can be associated to common names on the Net3 registry. A common name is prefixed by a fixed root section that categorizes it in a said section. Net3 name would look like: **/us/::hotels** or **/jp/::toyota**
For users, they would be able to get a free name in the /0 root derivative. e.g. **/0/::jason**
The common names registry is proposed to be hosted on a DLT like a blockchain.

04.

An AI-Forward execution platform

Net3 is not just for viewership, users can run remote commands on the connected entity. Net3 makes it easy to run functions on a remote service. The Net3 project envisions that AI will be local to the user running the commands and AI will be able to fetch all functions from a remote service and run it using agents. e.g. a user will be able to run a command like this:
/gl/::pandg~purchase<jam,1> or
/friends/::penpals~apply<mdc>
A tilde (~) is used to provide a function name. Parameters are given in less than and greater than signs <> to mimic brackets in a regular function call. The implementation of this execution scheme is open to interpretation and deployment.



05.

Why Net3

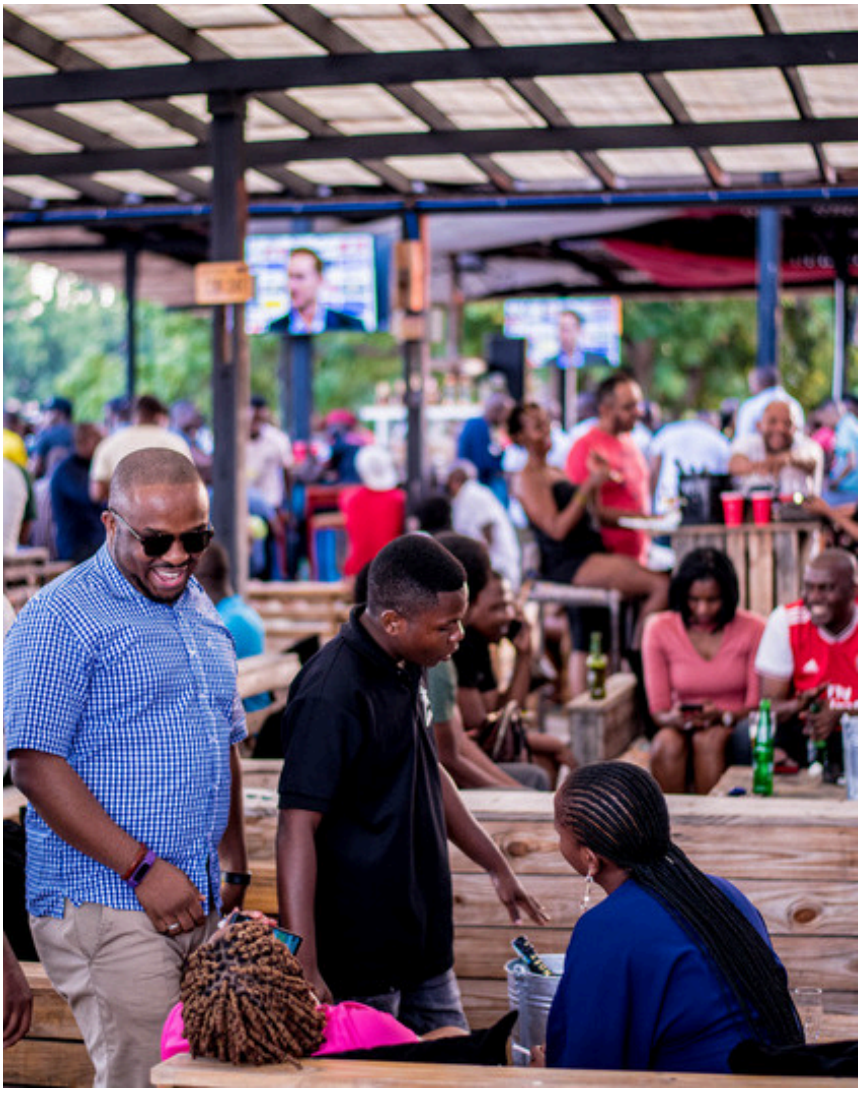
Net3 is the third public network in the world after the Internet and Tor, thus the name. Net3 is being born into existence to solve the problems with the Internet and to change the way an underlying network is supposed to work. On Net3, users have the last say and every service and entity on the network adheres to high quality and transparency. All traffic and entities on Net3 are verified and authenticated.

Net3 is fundamentally different from the Internet and Tor. Net3 is a secure network where everyone is authenticated. As a part of the secure handshake, both parties identify each other. Imagine a network of trust and stability. No one has to log-in, everyone is already logged in using their key. The services on Net3 are transparent and verified and the traffic hitting those services is also verified and authenticated. This will form a web of trust across the network. Such a new platform will have a character of its own and is expected to be under the wings of the users. The users will decide who gets to be on the network and who doesn't.

06.

The implications

At some point in the future, every entity on Net3 will be verified to be a real human being using a global ID system.



07.

Benefits of Net3

On Net3, there is no phishing, no crooked Domain names and no user data harvesting. Net3 is a trusted network where a business can operate with certainty that users will be able to use its services without the fear of being misdirected. There will be an oversight on Common name issuance guaranteeing that users will squarely land on the intended service. Ambiguous common names will be restricted on Net3.

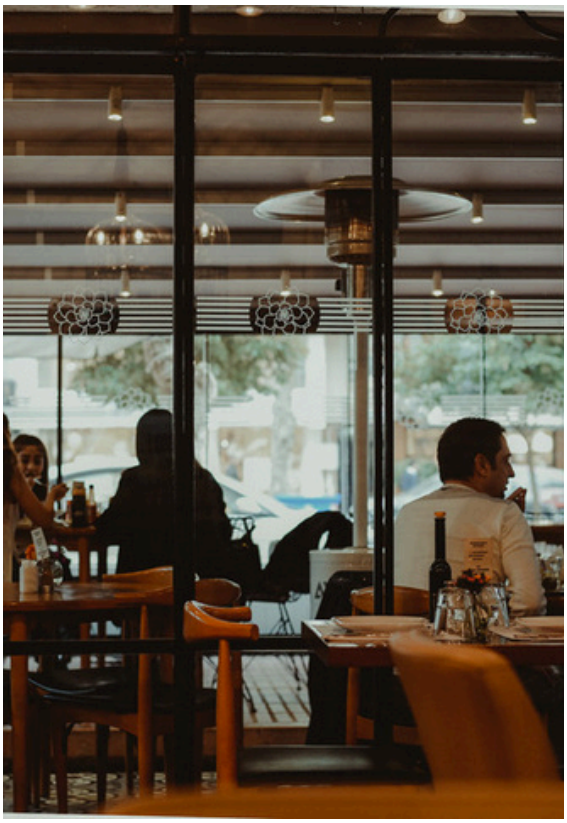
Users will find trust on the Net3 system while operating amongst themselves or while interacting with a service. Every entity on Net3 will be a trusted entity.

08.

Bring your own server

As long as the users are using someone else's servers, their data can never fully be theirs. You have to have your own space/server on a network to claim the sovereignty of your data. Net3 proposes that every human on the network has his own space to store data. In this respect, Net3 introduces ports which run on a server and provide functionality to the user. Ports are all numeric and are used just like execution calls. e.g. to send a message, you will call /0/::jason~4<"hi">

We envision that a new economy of server providers, programmers, tunnels, data distributors, replicators will pop up.



09.

Ports & Root

Net3 introduces idea of ports on a service used to invoke specific functions. Currently, the following ports have been declared:
~0: Function list
~1: Owner information
~2: Web page
~3: Web app
~4: Message (like email)
~1024-2048: Social media

Within the Common Name (CN) nomenclature, the following root derivatives have been declared:
/0: Users
/1: Online businesses/services
/2: Physical businesses/services
/bank: Banks and financial institutions
/airline: Airlines and flight operators
/pharma: Pharmaceutical companies
/hotel: Hotels and travel industry

Net3

Join the discussion at https://t.me/net_three

A new network for the people, by the people