It is our belief that the future of the Internet is based on peer-to-peer overlay-based networking. Peer-to-peer networking is different from other networks in that it doesn’t use a hierarchical model. Instead, the peer connects to other peers directly. This allows for a multitude of great features such as “redundant storage, trust and authentication, anonymity” (Keong Lua et al, 2004: 1-2). As well it allows for immense scalability, while still providing fault tolerance (Keong Lua et al, 2004: 1-2). The biggest argument for this being the future of the internet is the lack of centralization. Unlike other networking techniques such as Software-defined-networking(SDN), where everything connects and is controlled from one centralized area (Rawat & Reddy, 2017). A decentralized system doesn't rely on one specific area of control. This can provide more anonymity and better control over personal data. In the modern world where individuals have less control over their data and generally lack online privacy. It would make sense for peer-to-peer software such as Tor to become very popular. Given that it allows for that anonymity that the current internet is generally lacking.

References:

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