

Meta Root ID Passwordless Authentication Using ZKP Bitcoin Protocol

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Abstract : Passwords stored on central services and hashed are prone to cyberattacks and hacks. Hence, given all these nuisances, there's a need to eliminate character-based authentication protocols, which would ultimately benefit all developers as well as end-users. To replace this conventional but antiquated protocol with a secure alternative would be Passwordless Authentication. The meta root.id system creates a public and private key, of which the user is only able to access the private key. Further, after signing the key, the user sends the information over the API to the server, which checks its validity with the public key and grants access accordingly.

Keywords : passwordless, OAuth, bitcoin, ZKP, SIN, BIP

Conference Title : ICIOTBB 2023 : International Conference on Internet of Things Based on Blockchain

Conference Location : Zurich, Switzerland

Conference Dates : January 16-17, 2023