PRIVACY PRESERVING COMMUNICATIONS USING SPHERICAL
CHORD
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ABSTRACT
Structured overlay networks help in providing simplistic methods in data storage and data lookup, but they are always vulnerable against different kinds of attack. These overlay networks try to achieve a protocol which adheres to anonymity and security. Anonymity is one of the parameter for network security. Anonymity in a network is defined as the state to be undefined or unacknowledged. The paper firstly analyses the Chord protocol and models the system security when malicious nodes are in the system. Different types of attack are analyzed on the system and proven that anonymity gets compromised in such a system. Later in the paper we present a rough extension to Chord where we will be able to show the resilience of our system against such attacks.