IJRRECS/June 2015/Volume-3/Issue-6/4210-4214 **ISSN 2321-5461**

INTERNATIONAL JOURNAL OF REVIEWS ON RECENT ELECTRONICS AND COMPUTER SCIENCE

AN EFFECTIVE STRUCTURE TOWARDS MAINTAINING OF USER STATUS IN SOCIAL NETWORK

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ABSTRACT:

Mobile presence service is believed to be an essential element of social network services within cloud setting. Mobile devices will develop into tremendously commanding; sensing as well as media captures devices in near future. To take advantage of a mobile presence service's search speed and diminish the notification time, for the most part of presence services make use of server cluster knowledge. We suggest ingenious and scalable server design, known as Presence Cloud, which facilitates mobile presence services to maintain social network applications. It is considered as earliest work that obviously design a presence server design that considerably do better than those on the basis of distributed hash tables. The proposed system of Presence Cloud is exploited by means of applications of Internet social network as well as services that require replicating or else hunting for mutable as well as vibrant data between distributed presence servers. The main intention Presence Cloud is to allocate information of millions of users between thousands of presence servers on the Internet. Presence cloud sorts out presence servers as quorum-basis server-to-server structural design for well-organized presence searching.

Keywords: Presence service, Social network, Distributed hash tables, Cluster knowledge, Internet.

1. INTRODUCTION:

Due to the wide accessibility of mobile devices that make use of wireless mobile networks, the services of social network allow participants to share their experiences instantaneously across vast distances. The

significant utility of a mobile presence service is to preserve a current list of presence information of the entire mobile users [1]. In the services of social networks each one mobile user contains a friend list, normally known as a buddy list, which encloses contact information of other users that user wants to communicate with. Status of mobile user is broadcast automatically towards each person on buddy list whenever he transfers from one status to other. To make the most of a mobile presence service's search speed and reduce the notification time, for the most part of presence services make use of server cluster knowledge. When specified the expansion of social network applications as well as mobile network capability, it is likely that number of mobile presence service users will enhance considerably in near future as a result, an effective mobile presence service is considered necessary for future Internet applications. We put forward resourceful and scalable server design, known as Presence Cloud, which facilitates mobile presence services to maintain extensive social network applications. To the best of our information, this is the earliest work that clearly design a presence server design that considerably do better than those on the basis of distributed hash tables [2][3]. It is used to build and keep up a distributed server structural design and can be used to resourcefully query system for buddy list searches. It makes usage of an active caching approach that considerably reduces number of messages that are generated by each of the search for a list of buddies. Presence Cloud can also be exploited by means of applications of Internet social network as well as services that require replicating or else hunting for mutable as well as vibrant data between distributed presence servers.

2. METHODOLOGY:

Social network services are altering the ways in which participants are connecting with their friend's through Internet. They make use of the information regarding the status of participants to interact with their friends. In future, mobile devices will turn out to be extremely commanding, sensing and media capture devices. We believe it is predictable that social network services will be future generation regarding mobile Internet applications. In the last few years numerous Internet services were organized in distributed paradigms in addition to cloud computing applications. We look at the

relationship among distributed presence servers as well as server network topologies on the Internet, and suggest a scalable server-to server overlay structural design known as Presence Cloud to get better the effectiveness of mobile presence services for extensive social network services. Presence Cloud can keep up an essential social network service distributed among lots of servers on the Internet. The problem of buddy-list search is a scalability issue that takes place when a distributed presence service is overloaded by means of buddy search messages. The main objective of designing of Presence Cloud is to share out information of millions of users between thousands of presence servers on the Internet. Presence cloud sorts out presence servers as quorum-basis server-to-server structural design for well-organized presence searching. It moreover influences a directed search algorithm as well as a one-hop caching strategy to attain minute constant search latency. When a mobile user connects a network, Presence Cloud look for presence of their friends and notifies them of their arrival. Presence Cloud is used to build and keep up a distributed server structural design and can be used to resourcefully query system for buddy list searches [4]. It can moreover be exploited by applications of Internet social network as well as services that require replicating or else hunting for mutable as well as vibrant data among distributed presence servers. Presence cloud consists of three most important components that run crossways presence servers. They are Presence Cloud server overlay systematizes presence servers based on notion of grid quorum system. One-hop caching scheme is used to decrease the number of transmitted messages and speed up query speed. Directed buddy search is on the basis of directed search scheme.

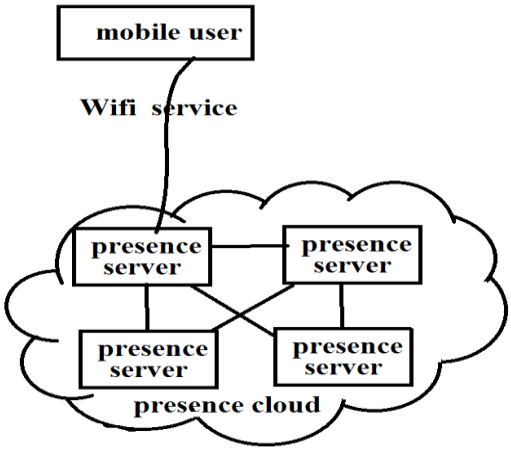

Fig1: An overview of Presence Cloud.

3. AN OVERVIEW OF PROPOSED SYSTEM OF PRESENCE CLOUD:

The proposed system of Presence cloud is a scalable server-to-server structural design that is used as a building block meant for

mobile presence services. It also leverages the server overlay as well as a directed buddy search algorithm to attain minute constant search latency; and utilizes an active caching approach that considerably reduces number of messages that are generated by each of the search for a list of buddies. Presence Cloud achieves most important performance gains regarding reducing number of messages devoid of giving up search satisfaction. Presence Cloud can maintain an important social network service distributed among lots of servers on the Internet. Presence Cloud accomplishes performance gains in search cost devoid of compromising search fulfilment. The most important intention of designing of presence cloud is to share out information of millions of users between thousands of presence servers on the Internet. The proposed system sorts out presence servers as quorum-basis server-to-server structural design for well-organized presence searching [5]. This is the initial work that clearly proposes a presence server design that considerably does better than those on the basis of distributed hash tables. In mobile Internet, a mobile user can access Internet and construct a data association to Presence Cloud. After joining of mobile users and authenticating towards mobile presence service, mobile user is determinately focussed towards one of presence servers in presence cloud by means of using secure hash algorithm. Presence Cloud shall carry out a resourceful searching operation and return presence information of required buddies towards mobile user. To get better the effectiveness of search operation, Presence Cloud requires a caching scheme to replicate presence information. To adapt towards changes in presence of users, caching strategy have to be asynchronous and not necessitate costly mechanisms in support of distributed agreement. Hence buddy list searching algorithm of Presence Cloud together with two-hop overlay as well as one-hop caching scheme ensures that Presence Cloud can usually offer swift responses for a huge number of mobile users [6].

4. CONCLUSION:

Social network services are making a difference in the methods where participants are associating with their friend's through Internet. Number of mobile presence service users will improve considerably in near future as a result, an effectual mobile presence service is considered necessary for

future Internet applications. In social networks each one mobile user contains a friend list, normally known as a buddy list, which encloses contact information of other users that user wants to communicate with. We present practical and scalable server design, known as Presence Cloud, which facilitates mobile presence services to maintain extensive social network applications. The main goal of scheming Presence Cloud is to share out information of millions of users between thousands of presence servers on the Internet. It is the earliest effort that obviously designs a presence server that noticeably does better than those on the basis of distributed hash tables. Presence Cloud is used to carry on a distributed server structural design and can be used to resourcefully query system for buddy list searches. It moreover can also be exploited by means of applications of Internet social network as well as services that require replicating or else hunting for mutable as well as vibrant data between distributed presence servers. Presence Cloud attains most significant performance gains concerning reducing number of messages devoid of giving up search fulfilment.

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