Human's Cloud

A community cloud served by a P2P overlay network on top of the web platform

David Dias, david.dias@computer.org

Lisbon Tech, University of Lisbon

Abstract. Grid computing has been around from the 90's No one true way of easy sharing resources Voluntary computing only used for Research, not accessible for application developers MOAR

Keywords: Cloud Computing, Peer-to-peer, Voluntary Computing, Cycle Sharing, Decentralized Distributed Systems, Web Platform

1 Introduction

1.1 Lorem ipsum

Excepteur sint Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

2 Architecture

2.1 Lorem ipsum

Excepteur sint Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

3 Related Work

The purpose of this section is to show the state of the art of the research topic, namely: Volunteer Computing, Cloud Computing, P2P Networks and the Web Platform

3.1 Volunteer Computing

3.X.X Cycle Sharing

3.X.X Storage Sharing Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam.

3.2 Cloud Computing

3.3 Peer-to-peer(P2P) Networks

3.X.X Peer-to-peer Architectures Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam.

Unstructured and Deterministic
Unstructured and Non-Deterministic
Structured with Distributed Hash Tables
Structured without Non-Distributed Hash Tables
Hybrid

3.X.X Peer-to-peer Applications

3.X.X Assurance and Trust

3.4 Web platform

3.X.X What has been happening

3.X.X Previous attempts [3] [3] [2]

4 Architecture

4.1 Node Level

4.2 Client API

4.3 Storage

4.4 Reputation Mechanism

4.5 Job Scheduling

Excepteur sint Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

5 Evaluation

5.1 Lorem ipsum

Excepteur sint Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

6 Conclusions

6.1 Lorem ipsum

Excepteur sint Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

batatas sds [4] asdada [1]

References

1. Youssef Afify. Access Control in a Peer-to-peer Social Network Youssef Afify.
2. Daniel Lazaro, Joan Manuel Marques, Josep Jorba, and Xavier Vilajosana. Decentralized resource discovery mechanisms for distributed computing in peer-to-peer environments. *ACM Computing Surveys*, 45(4):1–40, August 2013.
3. Rafael Moreno-Vozmediano. A hybrid mechanism for resource/service discovery in ad-hoc grids. *Future Generation Computer Systems*, 25(7):717–727, July 2009.
4. Rajiv Ranjan, Aaron Harwood, and Rajkumar Buyya. A study on peer-to-peer based discovery of grid resource information. *. . . , Australia, Technical Report GRIDS . . .* , pages 1–36, 2006.