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A Review report on Challenges and Opportunities of Edge, Fog and Cloud Computing by employing IoT Technology

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In the future, various information and things will be are connected to network. People can now live more convenient and comfortable life where the things and information coordinated together. A

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A Review report on Challenges and Opportunities of Edge, Fog and Cloud Computing by employing IoT Technology Abstract: In the future, various information and things will be are connected to network. People can now live more convenient and comfortable life where the things and information coordinated together. A world where things are connected to network is referred as IOT (Internet of Things). A huge amount of incomplete data is generated by IOT need to process and responded to very short time. This pose challenge of dealing with big data from a number of geometrically distributed data sources which are to be managed and processed. To achieve this cloud computing is a popular option due to its scalability, storage, computational and other capabilities. However current cloud models are not intended to handle the essentials of IOT – volume, variety, and velocity of data. In addition, as the physical distance between cloud and user increases, transmission latency increases with it, increasing response time and stressing of the user. On top of that, the processing speed in this environment is largely dependent on the performance of user device. The viable solution to these problems is identified as Edge Computing. The Edge Computing platform works by allowing some application processing to be performed by a small edge server position between the cloud and user, and crucially in a location physically closed to the user. This paper comprehensively presents various research trends that are available in Edge, Fog computing along with a comparison is made among Cloud. In particular, the architectures, characteristics, key technologies, potential applications, security issues and challenges of Fog, Edge, and Cloud Computing are discussed and summarized.

Keywords: IOT, Cloud Computing, Fog Computing, Edge Computing, Virtualization, 5G, SDN, NFV, CDN I. Introduction: Cloud Computing: The term 'Cloud computing' [as per NIST Definition] refers to computing services a



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