Comparative Study of EIGRP and OSPF Protocols based on Network Convergence

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Abstract-Dynamic routing protocols are one of the fastest growing reating protocols in networking technologies because of their characteristics such as high throughout, flexibility, lowoverhead, scalability, casy configuration, bandwidth, and CPU utilization. Albeit convergence time is a critical problem in any of these routing protocols. Convergence time describes summary of the updated, complete, and accurate information of the network. Several studies have investigated ERGRP and OSPF on the internet; however, only a few of these studies have considered link failure and addition of new links using different network scenarios. This research contributes to this area. This comparative study uses a network simulator GNS3 to simulate different network topologies. The results are validated using Cisco bardware equipment in the laboratory. The network topology implemented in this research are star and mesh topology. The results are validated using Cisco hardware equipment in the laboratory. Wireshark is effectively used in capturies and analyzing the packets in the networks. This heignin monitoring accurate time response for the various packets. The results obtained from Wireshark suggest the EIGRP has a higher performance in terms of convergence duration with a link faiture or new link added to the network than the OSPF routing protocol. Following this study ELGRP is recommended for most heterogeneous network implementations over OSPF routing per odoscosti.

Reywords—OSPF (Open Shortest Path First): EIGRP (Enhanced Interior Gateway Renting Protocol); renting; protocol; network; convergence; topology; renters; packets; Wiresheel.

ENTREMEDIACITICS

Computer networking is now a fundamental part of life, especially the use of the internet. As new technologies emerge, the demand for wireless mobile computing is growing first, thus the need for efficient routing protocols [1]. These protocols define the mechanism by which routers acquire information about the performance of the network topology, verify and identify the optimal source that a sucket will take to acrive at its destination. Hence, routing algorithms are crucial because they select the best path for communication in a beterogeneous network. Routing is the entire process of selecting the optimal route for the transmission of data packets. from source to destination 121. The process includes routers advertising their known IP networks, the administrative cost to its neighbor or adjacent routers, in this way the neighbor's routers gain knowledge of the characteristics and the topology of the network, then update the routing table. The administrative cost is the number of buys, link speed and Birtomery 13/11

These has been different research about routing protocols, especially on EIGRP and OSPF routing protocol in terms of convergence time. This research in routing protocols has been predominant because of the increasing demand of data transmission over a reliable network connection amongst enterprise companies, therefore network resilience/redundancy has been the key in curbing link failures. If there is a link failure in the network, the routing protocols are expected to identify the failure and converge to form a new topology for the continuous flow of packets in the network. Despite the wide research and interest made, many problems about routing protocols are yet to be solved in terms of convergence rate, which can yield optimal routing to deliver high throughput in beterogeneous networks. Hence, this work focuses on analyzing several scenarios of link failures, measuring their convergence rate, and identifying changes in the network topology when using EIGRP and GSPF routing protocol [4]. The rate of convergence occurs when all the routers in the network have an updated, complete, and accurate information on the network. The convergence rate includes the total time required by all the routers to calculate the optimal path, update their routing tables, and share the routing information with neighboring routers in the network.

The remainder of this study is planned as follows. In Section II., present a brief literature of recent work and background knowledge of Routing Information Protocol (RIP). OSPF and EIGRP. Section III describes the methodology, where the network topology such as star and mesh are designed. Section IV presents the design parameters and metrics, which includes the Hello interval, hop count and interface cost. Section V are the Wireshark results and section VI is the presentation and analyses of the results. Finally, the work is concluded in Section VII.

II. BACKGROUND

Dynamic routing protocols allow changes in the network topology because of the update in routing tables. Dynamic routing protocol is divided into distance vector routing protocols and link state routing protocols. Distance vector routing protocols calculate the administrative cost of a packet activing at a destination based on the number of routers the packet poster posters through, these include Routing ladermation Protocol (RIP) and EIGRP) [5]. Whilst, Link state routing protocol is building a complete topology of the network and calculates the optimal path from the topology for all interconnected networks, these include Internediate System to

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Mohammad S. Obaidat, Tuncer Ören, Janusz Kacprzyk, Joaquim Filipe, 2016-01-14 The present book includes a set of selected extended papers from the 4th International Conference on Simulation and Modeling Methodologies Technologies and Applications SIMULTECH 2014 held in Vienna Austria from 28 to 30 August 2014 The conference brought together researchers engineers and practitioners interested in methodologies and applications of modeling and simulation New and innovative solutions are reported in this book SIMULTECH 2014 received 167 submissions from 45 countries in all continents After a double blind paper review performed by the Program Committee 23% were accepted as full papers and thus selected for oral presentation Additional papers were accepted as short papers and posters A further selection was made after the Conference based also on the assessment of presentation quality and audience interest so that this book includes the extended and revised versions of the very best papers of SIMULTECH 2014 Commitment to high quality standards is a major concern of SIMULTECH that will be maintained in the next editions considering not only the stringent paper acceptance ratios but also the quality of the program committee keynote lectures participation level and logistics Proceedings of the Future Technologies Conference (FTC) 2018 Kohei Arai, Rahul Bhatia, Supriya Kapoor, 2018-10-19 The book presenting the proceedings of the 2018 Future Technologies Conference FTC 2018 is a remarkable collection of chapters covering a wide range of topics including but not limited to computing electronics artificial intelligence robotics security and communications and their real world applications. The conference attracted a total of 503 submissions from pioneering researchers scientists industrial engineers and students from all over the world After a double blind peer review process 173 submissions including 6 poster papers have been selected to be included in these proceedings FTC 2018 successfully brought together technology geniuses in one venue to not only present breakthrough research in future technologies but to also promote practicality and applications and an intra and inter field exchange of ideas In the future computing technologies will play a very important role in the convergence of computing communication and all other computational sciences and applications And as a result it will also influence the future of science engineering industry business law politics culture and medicine Providing state of the art intelligent methods and techniques for solving real world problems as well as a vision of the future research this book is a valuable resource for all those interested in this area IMDC-SDSP 2020 Raed Abd-Alhameed, Rana Zubo, Obed Ali,2020-09-09 IMDC SDSP conference offers an exceptional platform and opportunity for practitioners industry experts technocrats academics information scientists innovators postgraduate students and research scholars to share their experiences for the advancement of knowledge and obtain critical feedback on their work The timing of this conference coincides with the rise of Big Data Artificial Intelligence powered applications Cognitive Communications Green Energy Adaptive Control and Mobile Robotics towards maintaining the Sustainable Development and Smart Planning and management of the future technologies It is aimed at the knowledge generated from the integration of the different data sources related to a number of active real time applications in supporting the smart planning and enhance and sustain a

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