

DESIGN AND SIMULATION OF NETWORK USING NS2

SIRWAN A. MOHAMMED

MSc Student, Faculty of Electrical Engineering University of Babylon, University of Sulaimani, Iraq

ABSTRACT

The main goal of this paper is to present how to use network simulator(NS2)simulation for designingnetworks and using Cryptography algorithm as to security information. It briefly describes the basic networks categories, analyzes networks, brieflydescribes their components and technologies, explains the Wi-Fitechnologyand analyzesproperty sources related to networksimulatorand its detaileddescription, specify the configuration for thesimple network and create corresponding model by using NS2 simulator, demonstrates selected characteristics of the specifiednetwork configuration using the simulation model, and show scenario of transmission data among nodes. Two languages using in this paper to simulate tool. Finally to show facility of simulate uses cryptography to secure information packets transfer among nodes using C++ language to process because faster than tcl.

KEYWORDS: NS2, TCL, C++, Wire Network, Wireless Network, Information Security, RC5 Algorithm