

Chapter 2

A Practical Approach of Network Simulation

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ABSTRACT

Communication is a very important area of research in the present era. Expansion of globalization and reduction in the cost of electronic devices has made communication very effective. A large number of researchers from academics and industries are involved in the research on communication and networks. Any novel idea has to be verified on the simulator. A number of simulators are available for network simulations such as Network Simulator (NS2 and NS3), OPNET, NetSim, OMNeT++, REAL, J-Sim and QualNet. NS is an open-source simulation tool that runs on Linux. It is a discrete event simulator for networking research and provides substantial support for simulation of routing, multicast and IP protocols. This chapter provides an overview of NS in a much simpler way. At the completion of this chapter readers will be able to write `td` script to simulate a scenario of network. Every simulation on NS generates a huge trace file; the study of this can be done with the help of AWK script.

INTRODUCTION

NS-2 is an open-source discrete event network simulator (Information Sciences Institute, The Network Simulator ns-2, 2004) which is widely used by both the research community as well as by the people involved in the standardization protocols of IETF. This chapter is intended to help students, engineers or researchers who need not have much background in programming or who want to learn through simple examples how to analyze some simulated objects using NS-2. NS is an object oriented simulator, written in C++, with OTcl interpreter as a front end.

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