

ENSC 427: COMMUNICATION NETWORKS

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Spring 2012

Final Project Demo

Evaluating the Performance of Security Mechanisms in Networks over the Internet

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Roadmap

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- Introduction
- Implementation
- Simulation
- Future Work

Introduction

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- Security mechanisms in networks
 - Firewall
 - VPN
- Evaluating Performance
 - Packet Delay
 - Jitter
 - Global Response Time
 - Number of Packets Dropped
 - Number of Hops

Implementation

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- Application and Profile Configuration
- Server Configuration
- Firewall Configuration
- VPN Configuration

Simulation

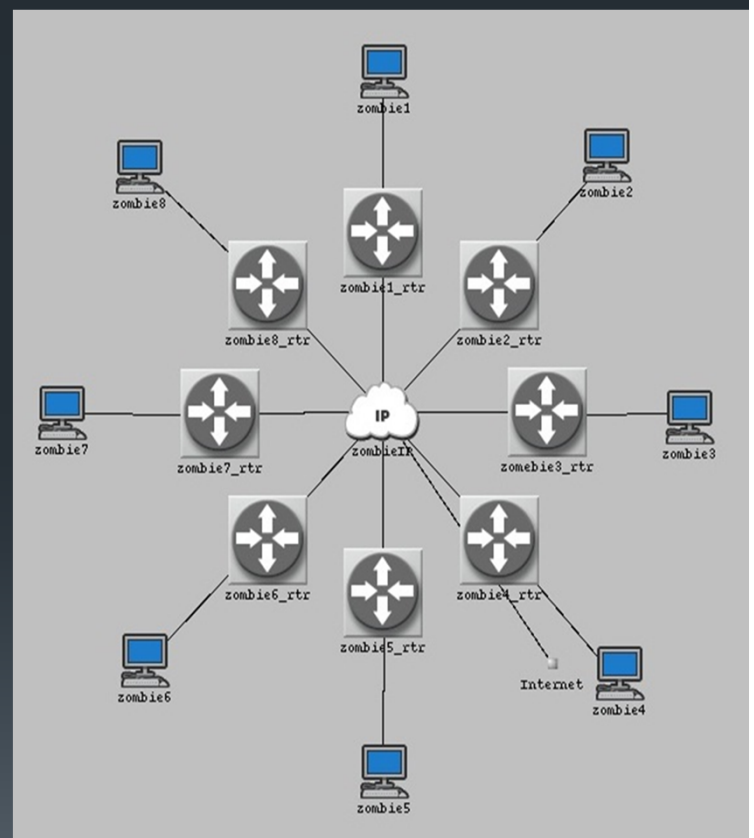
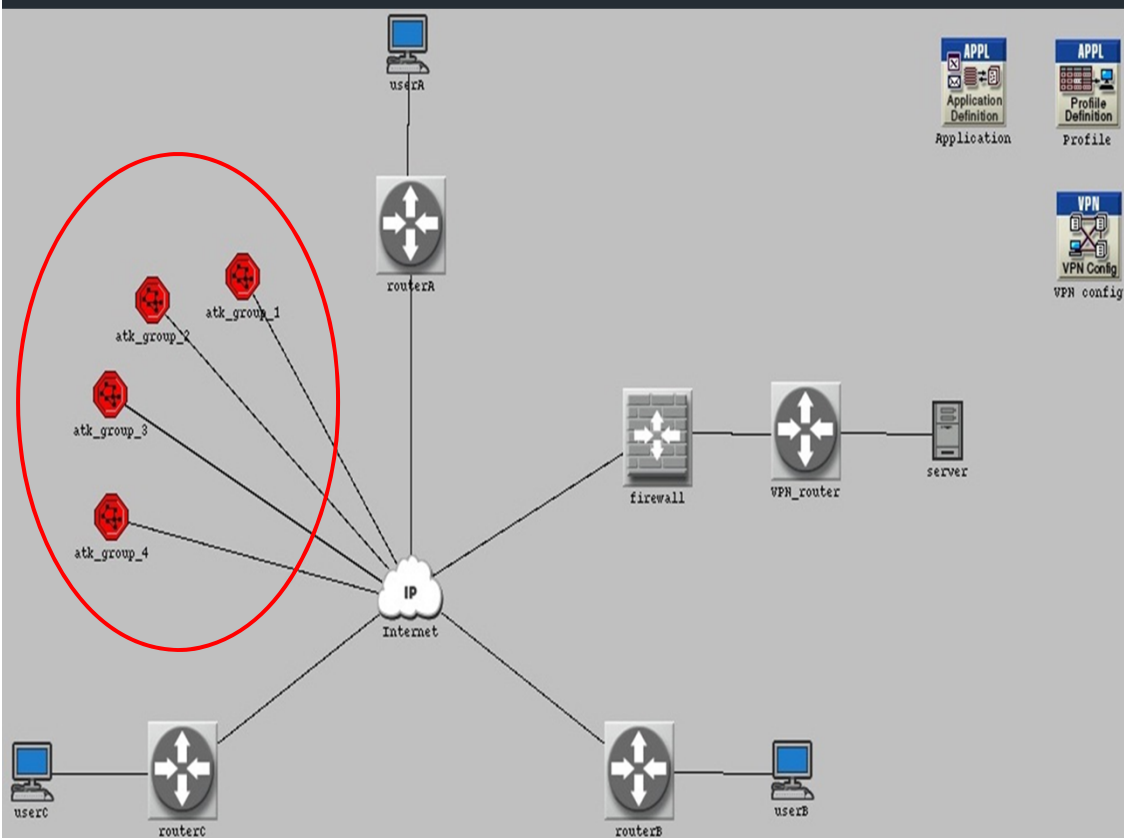
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- Scenario 1: Simple network with no security
- Scenario 2: Same network with added Firewall
- Scenario 3: Addition of VPN to scenario 2

Future Work

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- Denial of Service Attack



- Analysis of different queuing types