Evaluating the Performance of Security Mechanisms in Networks over the Internet

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Roadmap

- Introduction
- Implementation
- Simulation
- Future Work
Introduction

- Security mechanisms in networks
  - Firewall
  - VPN

- Evaluating Performance
  - Packet Delay
  - Jitter
  - Global Response Time
  - Number of Packets Dropped
  - Number of Hops
Implementation

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

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

- Denial of Service Attack

- Analysis of different queuing types