

Improving the performance of Web Services in Disconnected, Intermittent and Limited Environments

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Abstract

My abstract

Part I

Introduction

Kort intro om oppgaven her.

1 Background and Motivation

Hvorfor?

2 Problem Statement

Most of the Web Service solutions used today are aimed for civilian use and does not necessarily perform well in military environments. In contrast to civilian networks where bandwidth are abundant, mobile tactical networks may suffer from high error rates and low bandwidth.

In my master thesis I will investigate different optimization techniques that can be applied to improve communication. In order for the clients and services to remain interoperable the optimization techniques will be placed in proxies.

The Web Services will communicate with his counter part over HTTP as regular, with all traffic going umerkelig through the proxy. The Web Service itself does not need to pay attention to the bad connectivity, the proxy will choose the appropriate protocol and configuration.

3 Premises

Ikke endre web-servicene.

4 Scope and Limitations

Snevre inn oppgaven

5 Research Methodology

6 Contribution

Hva er det oppgaven min bidrar med?

7 Outline

Hvordan er resten av oppgaven strukturert.

Part II

Background

8 Related Work

Diskuterer eksisterende arbeid.

9 Requirement Analysis

10 DIL

Disconnected, Intermittent and Limited environments (DIL) definer hva DIL er og hvilke begrensninger det legger.

11 Summary

Part III

Design and Implementation

12 Overall Design

13 Proxy

13.1 Squid

Squid is a fully-featured HTTP/1.0 proxy.

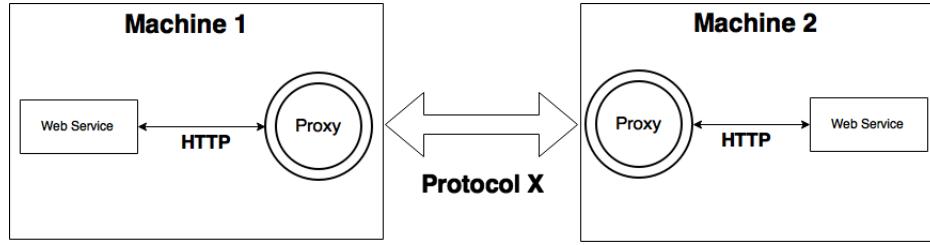


Figure 1: Architectural overview of proposed design

14 Summary

Part IV Testing and Evaluation

15 Evaluation Tools

Part V Conclusion and Future Work

16 Conclusion

17 Future Work