THESIS

Development of Application Security Standard for Compliance to Information Security Standard, PT. XYZ, Jakarta

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis. All used sources from external publications were cited without any exceptions.

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ABSTRACT

Development of Application Security Standard for Compliance to Information Security Standard: Case Study PT XYZ

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Application is a critical part on business process. Unfortunately, most of organization only concern with security control on infrastructure and general security control on logical access. There are many threats to application exist today that targeted the confidentiality, integrity, and availability of data especially on internet application. Security control on infrastructure and logical access is not enough to ensure the information or data is well protected on business process.

Application security becomes a very important aspect in order to defence or protecting sensitive data, assets, and reputation against threats to business process. To ensure the security on the application from design phase until production phase, it is needed a standard that contains a security requirements for application and it is called Application Security Standard.

To develop an application security standard, author using a hybrid threat modeling analysis process to identify and categorize threats on application. Also, with threat modeling analysis, security control against threats can be defined. Hybrid threat modeling is a combination and modification from some threat modeling process.

Keywords: Application, application security standard, hybrid threat modeling, threat, STRIDE, OWASP, data flow diagram

DEDICATION

I dedicate this thesis to my mom, who taught me the most important things in my life.

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TABLE OF CONTENTS

Page