

Department of Physics and Astronomy

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Master thesis

in Computer Science

submitted by

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Honeypot Implementation

in a

Cloud Environment

This Master thesis has been carried out by Stefan Machmeier

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Contents

1	Introduction	5
1.1	Problem description	5
1.2	Justification, motivation and benefits	5
1.3	Research questions	5
1.4	Limitations	5
2	Background	6
2.1	Cloud Computing	6
2.2	Honeypots	6
2.2.1	Definition of a Honeypot	6
2.2.2	Legal Issues	6
2.2.3	Honeynets	6
2.3	Intrusion Detection System	6
2.4	HoneyTrap	6
2.5	T-Pot	6
3	Related Work	7
3.1	The Bait and Switch Honeypot	7
3.2	Intrusion Trap System	7
3.3	Honeycomb	7
4	Practical Work	8
4.1	Attack vectors	8
4.2	Concept	8
5	Experimental Work	9
5.1	SNORT	9
6	Conclusion	10
6.1	Future work	10

1 Introduction

1.1 Problem description

1.2 Justification, motivation and benefits

1.3 Research questions

1.4 Limitations

2 Background

2.1 Cloud Computing

2.2 Honeypots

2.2.1 Definition of a Honeypot

2.2.2 Legal Issues

Honeypots Tracking Hackers

2.2.3 Honeynets

2.3 Intrusion Detection System

2.4 HoneyTrap

2.5 T-Pot

3 Related Work

3.1 The Bait and Switch Honeytrap

3.2 Intrusion Trap System

3.3 Honeycomb

4 Practical Work

4.1 Attack vectors

4.2 Concept

5 Experimental Work

Connect results of Honeypots with NIDS/IDS to update rules.

5.1 SNORT

6 Conclusion

6.1 Future work