SEMESTER PROJECT

ATTACK CRAWLER FOR MODERN NETWORKED SYSTEMS

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AGENDA

- Introduction
- Stuxnet Model
- Client-Server Protocol
- External Search Module on TTool
- Demo
- Conclusion

INTRODUCTION

Goal

- Extract relevant information of threads from Internet sources.
- Develop a crawler for collecting data of vulnerabilities
- Integrate the data into Ttool.

Time

- 1st Semester: Modeled operation of Stuxnet.
- 2nd Semester :Designed and implemented a protocol for TTool and the Crawler.

Model con Stuxnet 6 slides 7 phut

Cach lam sao?

+ mo ta tong quan ve mo hinh: mo hinh gom nhung gi, root attack

+

Lay cai hinh ra noi ket qua

Noi 4 cai hinh

CLIENT-SERVER PROTOCOL

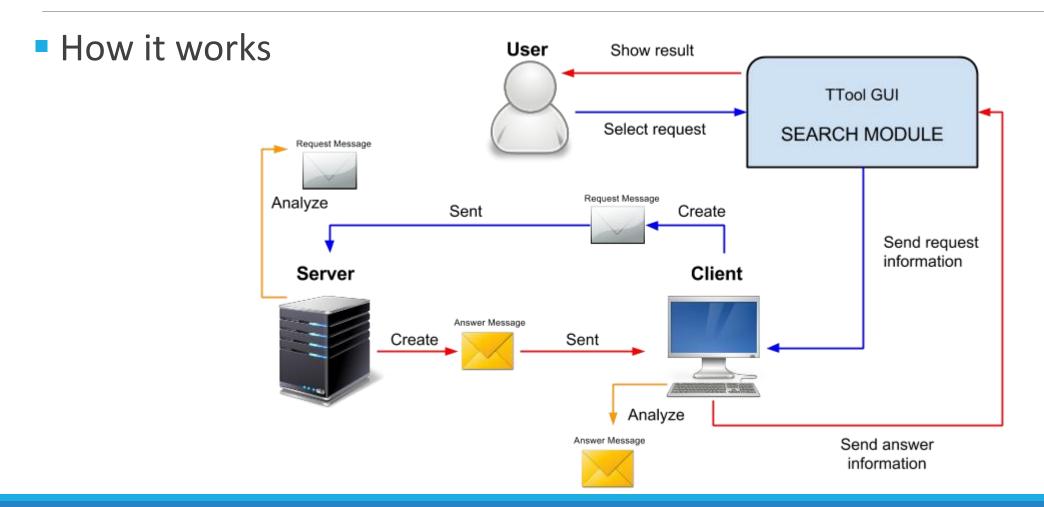
Objective

- Connect TTool and Web Crawler database.
- Exchange information.
- Secure the information.

Design

- Clients Server
 - Client code is integrated in Ttool.
 - Multithread server.
 - SSL Socket.
- Message

CLIENT-SERVER PROTOCOL



CLIENT-SERVER PROTOCOL

Structure of a message



Request Message

	SERVER			
cmd	SearchResult			
content	Result from the server			
	in XML format			

CLIENT						
cmd	Search					
content						
options	Keyword	Year	System	Score	NoR	
values	Stuxnet	This year	Linux	7-8	10	



EXTERNAL SEARCH MODULE

Objective

- Provide an interface allowing users interact with database server and search engine.
- Integrated in TTool source code.
- Design
- A JDialog named External Search.
- Support interaction with components in a diagram.
- Interact with Google Search engines.
- Take advantage of Ttool existing functions.

EXTERNAL SEARCH MODULE

Google Search features

Use Jsoup library

Database Search features

EXTERNAL SEARCH MODULE

Database Search features

DEMO

Show interface

Chay client server

Chay chuc nang search hien hinh anh

SSL

CONCLUSION

Conclusion 1 slide 1p

Finish

knowledge

Future