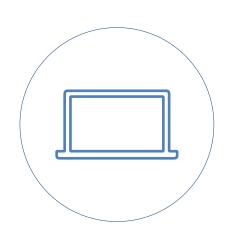


Main features

What is Carbonara about?



Binary analysis

Perform advanced static analysis directly from your browser.



Procedure matching

Find common patterns across binaries and speedup your work



Machine Learning

Run your binaries against our machine learning engine to discover if it's malicious.

Binary analysis

- Upload a raw binary and get useful information about it
- Retrieve all the procedures that compose the uploaded program

```
;Address of q0
fnc026,
           CLE
                         ;Function q000
                         ;Getting retur
            STA temp1
                         ;Processing ar
                         ;Putting retur
                         ;{WORD} q00027
           STA q00027
           CLE
                        ;{WORD} q00035 = q00030
           LDA q00030
           BSA push
           BSA pop
           STA q00035
```

Machine Learning

Is it malicious?



Procedure matching

- Read the disassembled code of each one of the procedures and see other info about it uploaded by other users.
- Given a procedure, get a list of similar procedures.

The Infrastructure

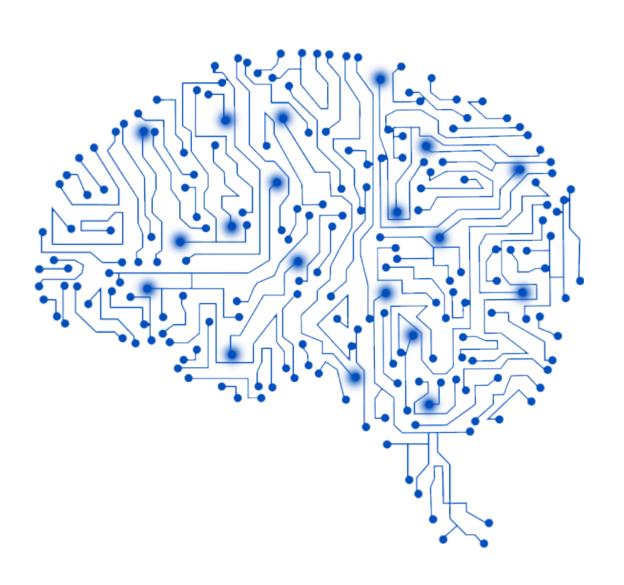
Machine Learning engine

Our progress

- ✓ We built the server infrastructure
- √ We've prototyped the model

What are the issues?

- Finding good data for training is hard
- Training a good model requires a lot of computing power



Guanciale (Analysis Engine)

Our progress

- ✓ Retrieval data from various tools and disassemblers (radare2, IDA Pro)
- ✓ Procedure abstraction and hashing

What are the issues?

- Extract info from IDA Pro database
- Testing the algorithm takes a lot of time



Front-end

Our progress

- ✓ Created Login/Register pages
- ✓ Created Dashboard page for updates and searching
- ✓ Created Profile page showing user activities
- ✓ Created Upload, Binary and Procedure pages



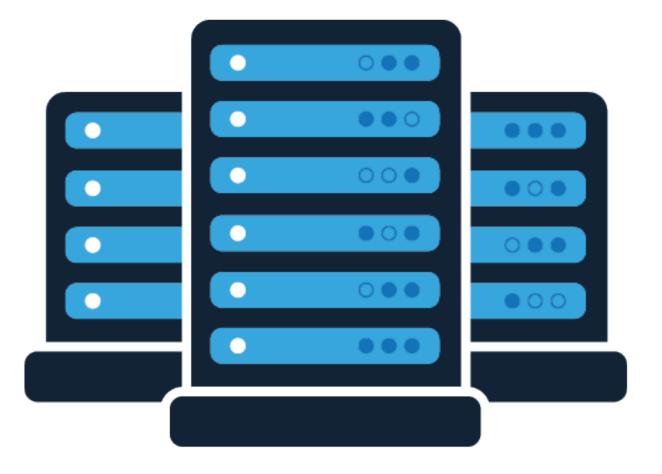
Back-end

Our progress

- √ User registration
- √ Managing DB for procedures descriptions
- ✓ Save report from analysis server

What are the issues?

- Choose the right way to represents procedures and link them to programs.
- Optimise singular procedures to work in disk.



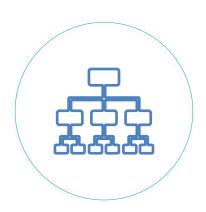
Roadmap

What's ahead?



Make it social

Comments, discussions, ratings, reputation.



Add data and interaction between components

Add more meaningful information on binaries, link data together to create an ecosystem.



Design

Graphic enhancements through better design and meaningful animations.

		SWILLI LIGHTECOSINI)	
		= (gametic/ticdup)%BACKUPTICS;	
		if (demoplayback)	
		G_ReadDempTiccmd (cmill); if (check >	
		ASH# check for turbo cheets	
		ASHII tomo->lorwardmove > TUHBU LHRESHULD	
		extern char *player_namesI4I;	
		sprintf (turbomessage, "%s is turbo!",player_namestill;	
		playersiconsoleplayeri.message = turbomessage;	
		LASH1 LError Consistency failure (%) should be %)1, mobil to	