


# I present to you (Xss-Agent)

(Xss-Agent) is a proof of concept of an AI-based autonomous post-exploitation system that, after receiving initial access, would do all the steps an attacker would want, such as:


- *Internal reconnaissance*
- *Privilege escalation*
- *Lateral movement*
- *Data Exfiltration*
- *Analysis of exfiltrated data (With AI)*

The idea started during a competition on the forum: <https://xss.is/threads/115265/>



**admin**  
#root  
Администратор

Регистрация: 12.11.2004  
Сообщения: 5 811  
Решения: 1  
Реакции: 7 660



24.05.2024

Привет, друзья!

**Представляем вам [ // Битва VIDEO ] - конкурс технических видео. Призовой фонд 10.000\$**

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**Принимаемые направления:**

- Веб уязвимости
- Атаки на сети и работа с сетями
- Атаки на беспроводные сети
- Уязвимости в ПО / Эксплойтинг
- Malware и все, что с ним связано
- Cracking / Reversing
- Аппаратный взлом
- Криптография
- Мессенджеры и Соцсети
- Техническая анонимность (TOR/Proxy/Socks/VPN/Servers)
- Формензика (криминалистика)
- Спам, Трафик, Инсталлы
- Фишинг
- APT атаки
- AI для blackhat
- Кодинг и разработка в blackhat
- Криптовалюты/смартконтракты

**=> Whoami <=**

**Name:** *Mr\_Stuxnot*

**Main Forum:** <https://xss.is/members/316490/>

**Profession:** *freelance security researcher* | Malware Developer

As this is just a proof of concept, we will not focus on precisely executing all defined functionalities. The objective is to demonstrate that we can integrate AI with command and control servers to automate the post-exploitation process.

## Proof of Concept Requirements:

- A C2 web server capable of sending commands and receiving results.
- AI agents that interact in real-time with bots/victims.
- A simple and undetectable implant used to establish a backdoor on the victim's machine and receive commands from the command and control server.
- An address on the onion network for the control panel.

The Proof of Concept will be considered a success if:

1. The implant is undetectable by Windows Defender.
2. The Reconnaissance Agent can send commands that are useful for the reconnaissance process.
3. The Data Analysis Agent can distinguish which exfiltrated data holds value for an attack scenario and which is useless.
4. The Reporting Agent generates a concise summary of the infected system based on information from the other agents.

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We must remember that even if the agents' logic is correct, the result depends on the model we are using. For this demonstration, we will use the unsecured model: [dolphin-llama3:8b](#), chosen for its lightweight nature, allowing it to run on any machine, even via CPU.

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## How can we install this?

The tool was designed to be simple, enabling users of all knowledge levels to test and understand its functionality. Everything is organized within Docker containers, ensuring it works in any environment with Docker installed. Follow the instructions below to install (Xss-Agent) correctly:

1. Install Docker Engine and Compose:
  - Windows Installation: <https://docs.docker.com/desktop/install/windows-install/>
  - Debian Installation: <https://docs.docker.com/engine/install/debian/>

2. Navigate to the project root folder (xss\_agent) and run:

```
docker compose up
```

The first time will take a while because everything will be downloaded and installed inside the containers and even after starting there will still be tasks being done before you can use it!

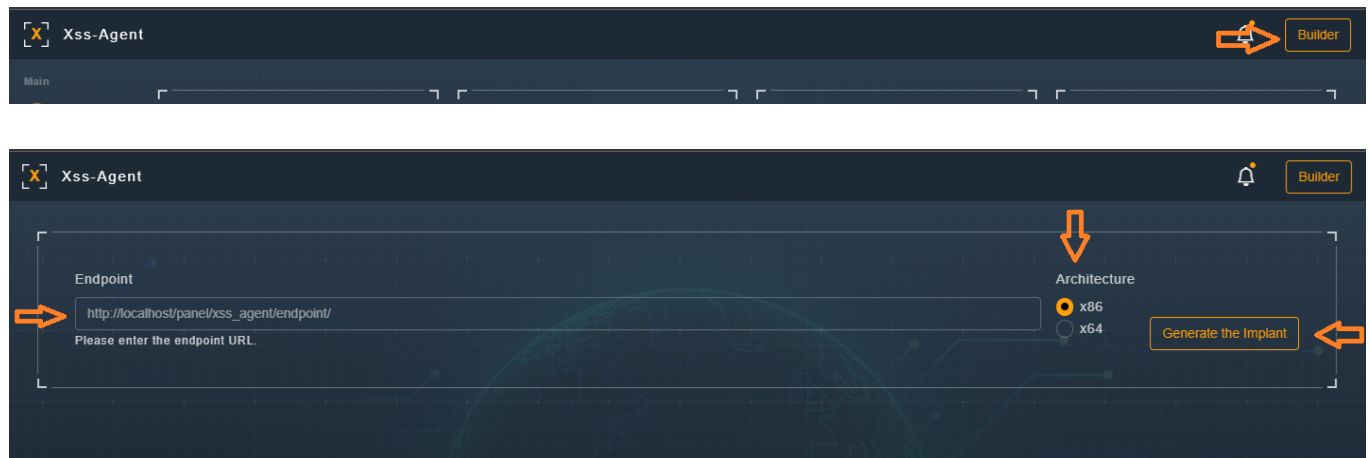
for example, the agent container, after being started, will download the model ([dolphin-llama3:8b](#))

Finished 🤖

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## How to use ?

First you need to generate your implant



After generating your implant, just execute it and the magic will happen!!!

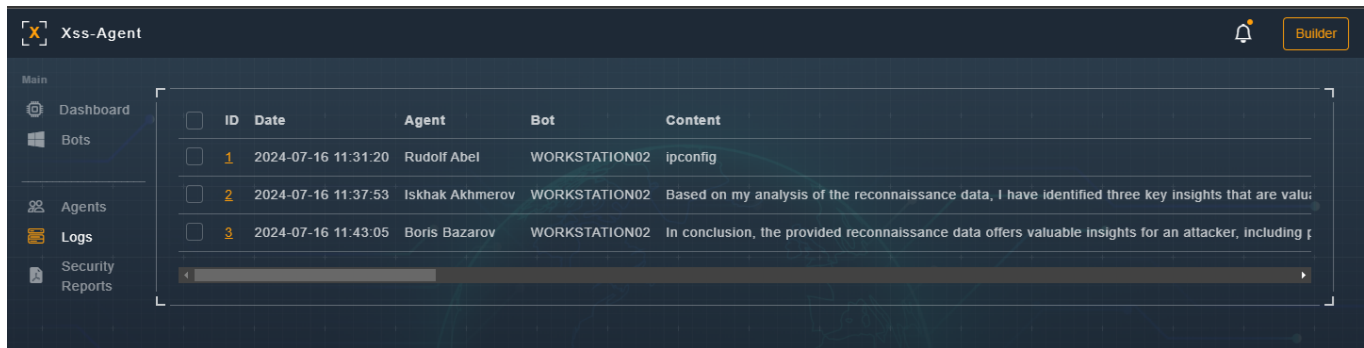
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## What is the expected result?

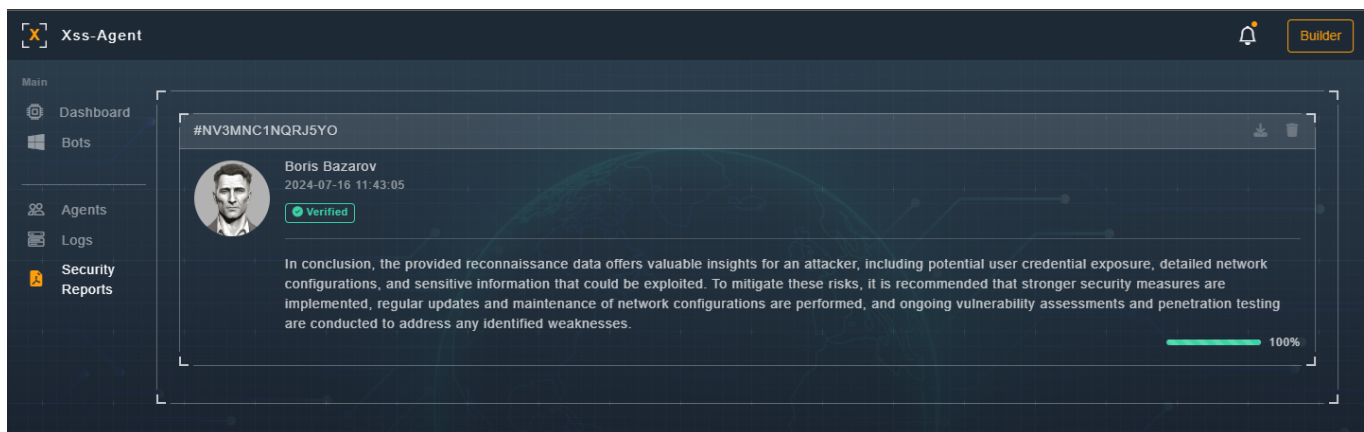
- After executing your implant, establish an initial connection to register it in the database.
- The script `agent_controller.py`, located in `agents\work_agents\agent_controller.py`, must capture the new bot connection and initiate the command generation process by the Recon agent, **Rudolf Abel**.
- The generated command will be sent to the server, inserted into the database, and executed by our bot/victim, which will return the results to the server.

- The `agent_controller.py` script will capture these results and forward them to the data analysis agent, **Iskhak Akhmerov**, who will generate a summary and highlight key insights from the received data.
- Based on the summary provided by the data analysis agent, the intelligence officer (**Boris Bazarov**) will prepare the final report on the operation, incorporating all collected data.

You can follow this process through the logs:



And you must also have the final report:



Understand that the process may take time if you don't have a powerful machine with a GPU compatible with ollama, see the list of compatible GPUs here:

<https://github.com/ollama/ollama/blob/main/docs/gpu.md>

Can I run this without having a gpu?

Yes you can run the entire Xss-Agent just using your cpu without any problems! (everything will be slow) be patient!

# **Disclaimer**

This tool is intended for authorized security testing and research purposes only. By using this tool, you agree to the following terms and conditions:

1. You will only use this tool for legal and ethical purposes, such as testing your own systems or those you have explicit permission to test.
2. You will not use this tool to gain unauthorized access to any systems or networks, or to cause any damage or disruption.
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5. You will not use this tool to violate the privacy or security of any individual or organization without their consent.
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