

## Alan

A powerful and professional Post-Exploitation Framework

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#### Problem Statement

#### Red-Team operators need a tool that:

- Allows the operator to use his/her preferred tools
- It is reliable
- It is easy to use
- It has a low system footprint
- It has a good operational security
- Can be extended in an easy way (no C/ASM development required)
- It is affordable
- Can help to simulate real-world threats to test the controls in place

# Alan - Next Generation Post-Exploitation Framework

```
Copyright (c) 2021-2022 Enkomio
[INFO] 2022-02-20 18:08:49 - Start listeners
[INFO] 2022-02-20 18:08:49 - Web listener started on: 0.0.0.0:8080
[INFO] 2022-02-20 18:08:49 - Using certificate: E=alan@localhost, C=Italv, S=IT, L=IT, O=AlanCA, OU=AlanFramework, CN=Enkomio, Expires: 5/1/2022 7:56:19 PM
[INFO] 2022-02-20 18:08:49 - Web listener started on: 0.0.0.0:8443
[INFO] 2022-02-20 18:08:49 - Host address: 192.168.56.1
[INFO] 2022-02-20 18:08:49 - Host address: 192.168.174.1
[INFO] 2022-02-20 18:08:49 - Host address: 192.168.1.61
[INFO] 2022-02-20 18:08:49 - Host address: 192.168.88.17
$:> join
17160@http://127.0.0.1> ?
[+] Help:
        ? or help
                                                Show this help.
        agents
                                                List the currently active agents.
        exec <cmd> [&]
                                                Execute the command on the remote host (& run the process in background).
        shell [<cmd>] [&]
                                                Execute the shell command on the remote host.
                                                If no command is specified, a command shell is started
                                                on the remote host (& run the process in background).
        run <cmd> [<pid>] [<x86 | x64>] [&]
                                                In memory execution of a local binary. If a <pid> is
                                                specific the file is injected into that process, otherwise
                                                a default one is chosen. & run the process in background.
        kill <pid>
                                                Terminate the specified process.
                                                Get information on the host system.
        info++
                                                Get extended information on the host system.
        get-config
                                                Download the agent config to the specified file.
        detach
                                                Detach from the agent session without terminating the agent.
                                                Show a list of the current running processes.
        ioin <agent ID>
                                                Select the specified agent as the currently active one.
        update <config file>
                                                Send a new configuration to the agent.
        migrate (process ID) <x86 x64>
                                                Migrate the agent session to the specified process ID.
        download <remote> [<local>]
                                                Locally download the file(s) from the agent host.
        upload <local> <remote>
                                                Upload a local file(s) to the agent host.
        sleep <msec> [<variance>]
                                                Set the agent sleep timeout. A variance integer can be specified.
                                                Termination the agent process.
17160@http://127.0.0.1>
```

Download: <a href="https://github.com/enkomio/AlanFramework/">https://github.com/enkomio/AlanFramework/</a>

### Alan - Features (1/2)

#### Currently supported features:

- Various kind of artefact formats are supported, such as: Executable, DLL, Shellcode, PowerShell (all types are provided in both x86 and x64 version).
- Execution of commands received from a Command-and-control server via
   HTTP/HTTPS (the certificate is automatically generated and can be customized).
- All traffic is encrypted in a strong way. A network dump or the reverse engineering of the binary is not enough to the decrypt the traffic.
- The Alan server can be executed on any OS supporting .NET core (such as Linux).
- Low network footprint and AV resistant.
- All code executed in memory (event third party programs).
- SOCKS5 proxy for Network Pivoting

## Alan - Features (2/2)

#### Currently supported features:

- Execution of JavaScript script file to extend the Alan agent capabilities.
- The agent can be easily configure through JSON profiles.
- Fully customizable (eg. it is possible to change the used communication protocol at runtime).
- No dependency on third-party tools/software (DB, Web Server, TLS Certificate generation, ...).
- Server can be customized to mimic a legitimate one.
- The operator sends command to the Alan agent by using a clean Command-line-interface.
- Fully documented.

### Roadmap 2022

- Web UI for the Server (Only available in Alan Pro Edition)
- Execution of PowerShell script
- New C2 channel: DNS
- Create JavaScript files Knowledge Base to emulate a real-word adversary
- Additional commands (download from web url, agent customization, ...)

## Alan Early-Adopters

Who is an Alan early-adopter?

- Perform red-team activities
- Use post-exploitation tools but want more from them
- Willing to share TTPs used during the red-team activities

## Alan Early-Adopters

#### What they receive:

- Alan agent source-code
- Early access to the new Alan version (included the Pro version when ready)
- Strict collaboration with the development team for the suggestion of new features
- "Real-time" support
- Sync-meeting (one meeting each one or two months)

## Alan Early-Adopters

#### What they provide:

- Feedbacks
- Spread the word
- Support Alan development with a yearly contribute of 2k € (+tax). The support includes no limitation on its usage or number of users.

## Become an Alan Early-Adopter

#### How to become an Alan early-adopter?

- Send an email to <u>aparata@gmail.com</u> specifying why you are interested in becoming an Alan early-adopter and your company name.
- 2. Receive the Alan binary in its latest version (this might include a release not yet published).
- 3. Schedule an introduction meeting.
- 4. Test Alan for 2 weeks.
- 5. Schedule a feedback meeting.
- 6. Become an effective Alan early-adopter by sending your contribute.
- 7. Receive the Alan agent source code.