

# Private Malware for Sale: A Closer Look at AresLoader

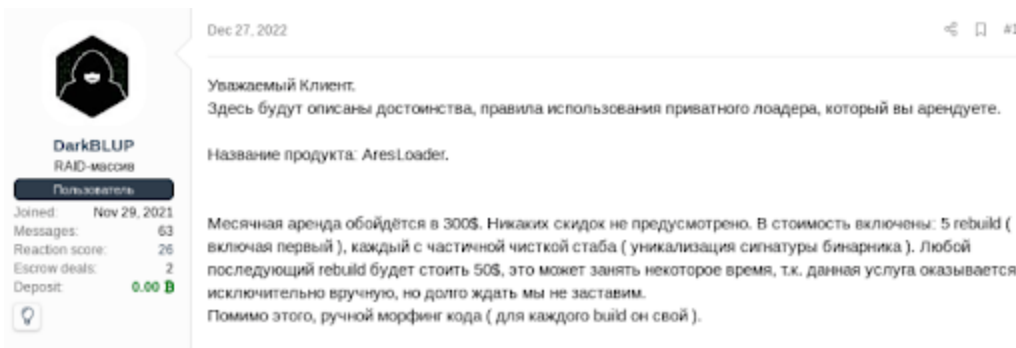
 [flashpoint.io/blog/private-malware-for-sale-aresloader/](https://flashpoint.io/blog/private-malware-for-sale-aresloader/)

March 6, 2023

## A new private loader for sale

In December 2022, a private loader named “AresLoader” was advertised for sale on the top-tier Russian-language hacking forum XSS by a threat actor going by the name “DarkBLUP”. The seller claimed that they were selling access to the malware for \$300 per month and were only issuing ten licenses at a time.

According to DarkBLUP, AresLoader is designed to camouflage itself as legitimate software while covertly downloading harmful payloads. The sales ad also revealed that AresLoader operates through a single command and control (C2) panel that receives logs, and customers can create user accounts for the panel.



Dec 27, 2022

Уважаемый Клиент.  
Здесь будут описаны достоинства, правила использования приватного лоадера, который вы арендуете.

Название продукта: AresLoader.

Месячная аренда обойдется в 300\$. Никаких скидок не предусмотрено. В стоимость включены: 5 rebuild (включая первый), каждый с частичной чистой стаба (уникализация сигнатуры бинарника). Любой последующий rebuild будет стоить 50\$, это может занять некоторое время, т.к. данная услуга оказывается исключительно вручную, но долго ждать мы не заставим.  
Помимо этого, ручной морфинг кода (для каждого build on свой).

Sales thread posted

to XSS by DarkBLUP. (Source: Flashpoint)

The AresLoader sellers have also set up a Telegram channel to facilitate discussions related to the bot. The IP address of the C2 server indicates that it belongs to an autonomous system number (ASN) registered to the bulletproof hosting provider Partner LLC.

## How AresLoader works

Flashpoint analysts have evaluated a sample build of AresLoader and confirmed that it performs the advertised functions.

```

.text:0040167B      mov     eax, ds:__imp__Sleep@4 ; Sleep(x)
.text:00401680      call   eax ; Sleep(x) ; Sleep(x)
.text:00401682      sub    esp, 4
.text:00401685      mov    eax, [ebp+!Path]
.text:00401688      mov    [esp+4], eax ; dwnPath
.text:0040168C      mov    dword ptr [esp], offset __Zl8legitur1 ; url
.text:00401693      call   __Z13DownloadFilesPKc50_ ; DownloadFiles(char const*,char const*)
.text:00401698      mov    eax, [ebp+!Path]
.text:00401698      mov    [esp], eax ; file
.text:0040169E      call   __Z20ExecuteLegitProgramPKc ; ExecuteLegitProgram(char const*)
.text:004016A3      mov    eax, [ebp+pPath]
.text:004016A6      mov    [esp+4], eax ; dwnPath
.text:004016AA      mov    dword ptr [esp], offset __Zl10payloadurl ; url
.text:004016B1      call   __Z13DownloadFilesPKc50_ ; DownloadFiles(char const*,char const*)
.text:004016B6      mov    eax, [ebp+pPath]
.text:004016B9      mov    [esp], eax ; file
.text:004016BC      call   __Z25ExecutePayloadEXEProgramPKc ; ExecutePayloadEXEProgram(char const*)
.text:004016C1      mov    dword ptr [esp+4], offset fileNameReestr
.text:004016C9      mov    eax, [ebp+pPath]
.text:004016CC      mov    [esp], eax ; s2Path
.text:004016CF      call   __Z9AddRegKeyPc5_ ; AddRegKey(char *,char *)
.text:004016D4      mov    eax, [ebp+sPath]

```

AresLoader

downloader function calls. (Source: Flashpoint)

Once dropped on the system, it scrapes the victim device’s IP address and time zone, generates a UUID for the infected system, and beacons out to the C2 server with a POST request. This beacon includes the scraped data mentioned above as well as campaign identifiers such as an ‘owner\_token.’

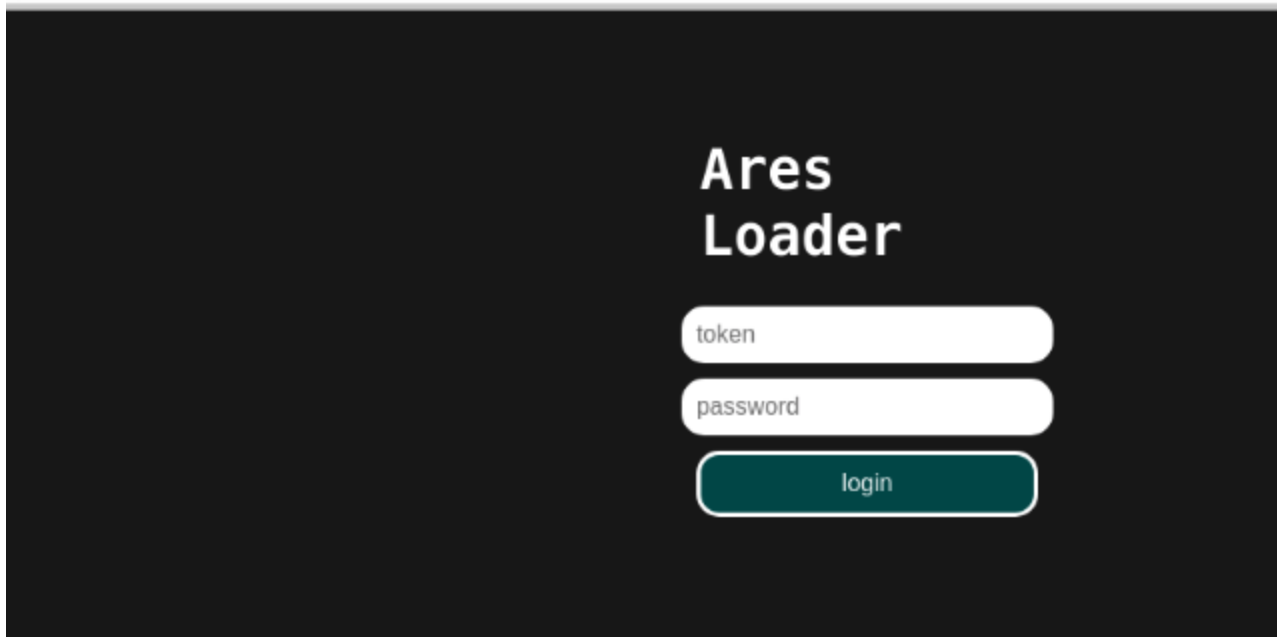
After registering the loader on the C2 server, the loader downloads the expected legitimate file specified during the build’s creation. It executes that file and downloads the additional harmful payloads. The downloaded files are saved in a folder and then executed.

AresLoader then creates a Registry AutoRun key to obtain and retain unauthorized access to the victim’s environment.

It is worth noting that the “owner\_token” field identifies the AresLoader customer to whom the build belongs. Some customer tokens might be linked to threat actor accounts that were active in various illicit communities collected by Flashpoint over the past two months.

## AresLoader panel and server

The AresLoader panel is managed and hosted by the malware seller, and it appears that all AresLoader builds communicate with a single server.



AresLoader login landing page. (Source: Flashpoint)

This server's IP address has been detected as the recipient of communication consistent with AresLoader's command and control (C2) functions. Additionally, a file that resembles an AresLoader build has also been observed communicating with this IP address.

## What security teams can learn from ASNs

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The IP address used by AresLoader's server belongs to the autonomous system number (ASN) AS204603 and is registered as Partner LLC. Note that the use of "LLC" in the ASN name does not necessarily indicate the company is a registered LLC; it may be part of the name. This ASN exhibits several traits characteristic of bulletproof hosting providers.

Bulletproof hosting providers are similar to standard hosting providers but cater to threat actors who seek to host malicious infrastructure without fear of the servers being taken down due to abuse policies.


Identifying bulletproof hosting provider ASNs can be useful to security researchers and organizations with the ability to block IP ranges. These ASNs' announced IP ranges are highly unlikely to host legitimate services, making them valuable in identifying malicious infrastructure or preventing malicious activity proactively.

Partner LLC also hosts the "Shark" stealer panel, indicating that the ASN supports other malicious infrastructure besides AresLoader. Additionally, another Partner LLC IP hosts [seurespend\[.\]org](https://seurespend[.]org), a phishing site masquerading as [seurespend\[.\]com](https://seurespend[.]com).

 SharkStealer | Login [↗](#)

45.9.74.122

Lethost LLC

 Germany, Frankfurt  
am Main

HTTP/1.1 200 OK

Date: Thu, 16 Feb 2023 16:49:23 GMT

Server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.33

X-Powered-By: PHP/7.4.33

Set-Cookie: PHPSESSID=3jtbeggh6qk9hr4krjasjh1f90; path=/; HttpOnly; SameSite=Lax

Expires: Thu, 19 Nov 1981 08:52:00 GMT

Cache-Control: no-store, no-cache, #s...

Shodan result for

Shark Stealer Panel. (Source: Shodan)

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